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RE Tennessee Valley Authority

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1 UNITED STATES OF AMERICA

2 NUCLEAR REGULATORY COMMISSION

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4 PRE-DECISIONAL ENFORCEMENT CONFERENCE

5 RE

6 TENNESSEE VALLEY AUTHORITY (TVA)

7 (DOCKET NO. EA-19-092)

8 + + + + +

9 WEDNESDAY

10 JULY 22, 2020

11 + + + + +

12 The conference was convened at 8:00 a.m.
13 EDT via Video Teleconference, Kenneth O'Brien, Region
14 III, Deputy Regional Administrator, presiding.

15
16 NRC STAFF PRESENT:

17 KENNETH O'BRIEN, Region III,

18 Deputy Regional Administrator

19 ALEX ECHAVARRIA, Region II,

20 Office of Investigations

21 IAN GIFFORD, Office of Enforcement

22 JOE GILLESPIE, Attorney,

23 Office of the General Counsel

24 NICK HILTON, Senior Enforcement Advisor,

25 Office of Enforcement,

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1 CRAIG KONTZ, Region II,
2 Office of Investigations
3 MAURI LEMONCELLI, Acting Assistant General
4 Counsel
5 MARK MILLER, Region II, Director,
6 Division of Reactor Projects
7 MARCIA SIMON, Senior Attorney,
8 Office of the General Counsel
9 ANDY SHUTTLEWORTH, Director,
10 Office of Investigations
11 SCOTT SPARKS, Region II,
12 Senior Enforcement Specialist
13
14 ALSO PRESENT:
15 JIM BARSTOW, TVA, Vice President,
16 Nuclear Regulatory Affairs
17 TIM RAUSCH, TVA, Chief Nuclear Officer
18 TRICIA ROELOFS, TVA, Director,
19 Data Governance & Analytics
20 CHRIS RICE, TVA, Director, Plant Operations,
21 Watts Bar Nuclear Plant
22 RANDY STAGGS, TVA, Director, Plant Support,
23 Watts Bar Nuclear Plant
24 TONY WILLIAMS, TVA, Site Vice President,
25 Watts Bar Nuclear Plant

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P-R-O-C-E-E-D-I-N-G-S

8:01 a.m.

MR. O'BRIEN: Good morning, everybody I have us at the top of the hour, 7 o'clock my time, 8 o'clock your time, so I thought we might begin.

I think we might still have some people join us in a few minutes, but we'll start with some of the preliminaries and then go from there.

I'm Ken O'Brien, I'm the Deputy Regional Administrator for Region III, and I'm Also the Director for the Office of Enforcement's Special Project Team.

Before we get started I'd like to ask Ian Gifford of the Office of Enforcement to review a few details of today's video teleconference and answer any questions you might have. Ian.

MR. GIFFORD: Everybody should be able to see the participants of today's meeting on the right side of their screen. If you can't see the participant list, please select the participant button at the top right.

In order to control your own audio you can mute and unmute yourself by looking for your name in the attendee list. Hovering over that name with your mouse, and you will see the video on and off in the

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1 audio mute and unmute button appear.

2 If you're having technical difficulties
3 during the meeting, please contact the host through
4 the chat box below. If the chat box does not
5 automatically appear, it's a button at the top right
6 next to the participant button. And you can select
7 that. Then you select host as the send to and notify
8 them that you're having issues.

9 To see a list of the video for all the
10 panelists that have their video activated, you can see
11 three horizontal lines in the bottom right corner. If
12 you select that drop-down menu you can toggle between
13 lists and thumbnails.

14 The thumbnail view will give you the
15 videos for everybody, in addition to the active
16 speaker, that takes up the top right corner. This is
17 what your screen would like as the thumbnails are
18 activated.

19 During the presentations today when there
20 are a PowerPoint you may want to go to full screen
21 mode. You can select full screen in the bottom left
22 corner. That will make the PowerPoint slides take up
23 a larger point of the screen and you'll see that your
24 menu to control your own audio and see the
25 participants moves.

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1 You have to hover your mouse to the top
2 center portion of the screen. The menu will drop-down
3 and you can select mute me.

4 You can also select the participants tab
5 and you will get a video in the top right corner where
6 you have the active speaker. You can actually resize
7 that by dragging the bottom left corner. You can also
8 select the participants tab to get the thumbnail views
9 for everybody.

10 That popup window is also re-sizable. And
11 if you're running a dual monitor setup, you can drag
12 that popup window onto a separate screen so that it
13 doesn't cover any of the PowerPoint slides. You can
14 also move that throughout a single screen if you are
15 covering up some of the PowerPoint material with the
16 video that you'd like to see.

17 If you do not want to see the PowerPoint
18 slides or we're at a portion of the meeting where it's
19 Q&A and there aren't PowerPoint slide, you can
20 prioritize video by selecting the top right corner of
21 the active speaker box. You see two arrows, one that
22 points to the top right and one that points to the
23 bottom left.

24 That will expand the video feed to take
25 over the entire screen. And you'll see the active

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1 speaker box in the center of the screen as well as all
2 the video thumbnails along the bottom.

3 They'll show five video thumbnails
4 simultaneously. If there are more active videos then
5 the five you'll see arrows appear under the thumbnails
6 and you can scroll left to right.

7 In order to exit the full screen mode and
8 go back to see the PowerPoint slides, in the top right
9 portion of your screen you'll see exit full screen
10 view. Thanks, Ken.

11 MR. O'BRIEN: Thank you, Ian. Today we're
12 about to conduct a predecisional enforcement
13 conference between the NRC and TVA, but before we
14 begin, I'd like the NRC Panel Members and then the
15 other observers for the NRC to introduce themselves.

16 And then, Mr. Rausch, if I may ask you to
17 introduce yourself and your representatives for TVA I
18 would appreciate it. As I said, we'll introduce
19 ourselves from the Panel first.

20 Again, I'm Kenneth O'Brien, I'm the Deputy
21 Regional Administrator for Region III, and also the
22 Director for the Office of Enforcement's Special
23 Project Team.

24 MR. HILTON: Nick Hilton, Senior
25 Enforcement Advisor, Office of Enforcement.

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1 MR. SPARKS: Scott Sparks, Senior
2 Enforcement Specialist for Region II and an OE Special
3 Project Team member.

4 MR. O'BRIEN: I'm missing Marcia here.
5 Marcia, are you having difficult, there you go.
6 Marcia?

7 MS. SIMON: Yes, sorry. This is Marcia
8 Simon, I'm a Senior Attorney in the NRC Office of
9 General Counsel.

10 MR. O'BRIEN: Thank you. And then if we
11 can begin, I know George Wilson is unable to join us
12 this morning. Andy, would you like to begin?

13 MR. SHUTTLEWORTH: Andy Shuttleworth,
14 Director, Office of Investigations.

15 MR. MILLER: Mark Miller, Director of the
16 Division of Reactor Projects in Region II.

17 MR. ECHAVARRIA: Alex Echavarria, Special
18 Agent-in-Charge, Office of Investigations, Region II
19 field office.

20 MR. KONTZ: Craig Kontz, Senior Project
21 Engineer, Office of Investigations.

22 MR. GILLESPIE: Joe Gillespie, Attorney,
23 Office of the General Counsel.

24 MS. LEMONCELLI: Mauri Lemoncelli, Acting
25 Assistant General Counsel.

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1 MR. O'BRIEN: Mr. Rausch, may I ask you to
2 introduce your representatives please?

3 MR. RAUSCH: Yes. Good morning. My name
4 is Tim Rausch and I am the Chief Nuclear Officer for
5 TVA.

6 I'm here today with TVA's outside counsel
7 Mike Lepre, Tom Hill, Dave Lewis, Monica Hernandez,
8 Drew Navikas, Brendan Hennessey, from the law firm of
9 Pillsbury Winthrop Shaw Pittman, and Barry Levine,
10 Howard Feldman, from the law firm Blank Rome.

11 I also have Jim Barstow, from TVA's
12 Corporate Office, Tony Williams, Randy Staggs and
13 Chris Rice, from TVA's Watts Bar Nuclear Plant.
14 They're here to provide some comments and also assist
15 in answering any questions that the NRC may have after
16 it hears TVA's presentation.

17 Also joining us this morning is Tricia
18 Roelofs, from TVA, with her serving as the team lead
19 for TVA's response to the apparent violation. Thank
20 you.

21 MR. O'BRIEN: Thank you, Mr. Rausch.
22 Today we will conduct a predecisional enforcement
23 conference between the NRC and TVA. In accordance
24 with the NRC's enforcement policy manual, this
25 conference is closed to public observation because it

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1 involves the findings of an NRC Office of
2 Investigation report that have been publicly
3 disclosed.

4 This meeting is also being transcribed
5 therefore it's important that all individuals speak
6 clearly, identify themselves to assist the
7 transcriber.

8 A written transcript will provide the NRC
9 with a record of the information that is presented
10 today and will be used in reaching a final Agency
11 decision on matters that we are about to discuss.

12 The transcript is not normally released to
13 the public, however, if a request under the Freedom of
14 Information Act is received, the release will be
15 considered subject to the redactions allowed by the
16 Freedom of Information Act. With the exception of the
17 transcript, no portion of this PEC shall be recorded.

18 Following my brief opening remarks, Mr.
19 Scott Sparks, a team member of the Office of
20 Enforcement Special Project Team, will briefly discuss
21 the Agency's enforcement policy.

22 I'll then discuss the apparent violations
23 that we plan to discuss today based upon a schedule we
24 had agreed upon. And then, Mr. Rausch, you'll be
25 given an opportunity to respond to the apparent

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1 violations.

2 I wish to reiterate to all those in
3 attendance today of the decision to hold this
4 conference, does not mean that NRC has determined that
5 a violation has occurred or that an enforcement action
6 will be taken. This conference is an important step
7 in arriving at that final decision.

8 Following the presentation today we'll
9 take a break for lunch and then caucus according to
10 the schedule we've identified and then we'll follow-up
11 with questions and answers this afternoon.

12 Lastly, we'll have some closing remarks
13 for today in preparation for completing today's
14 activities and opening for tomorrow's activities.
15 This conference will take place over today, tomorrow
16 and Friday, as we previously discussed.

17 As I indicated, this is a predecisional
18 enforcement conference to discuss the apparent
19 violation that were identified during an investigation
20 completed on May 17th, 2019 by the NRC's Office of
21 Investigation regarding activities the Tennessee
22 Valley Authority Watts Bar Nuclear Plant.

23 The purpose of the investigation was to
24 determine whether TVA employees deliberately submitted
25 incomplete or inaccurate information to the NRC and

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1 whether TVA employees deliberately violated plant
2 procedures.

3 At the request of the Director of Office
4 of Enforcement, the NRC convened a multi-office team,
5 which I led, to review the enforcement aspects of the
6 OI investigation report.

7 As a result of this review, an apparent
8 violation were identified and they're documented in a
9 letter I sent to Mr. Barstow on March 9th.

10 At this conference we are affording TVA
11 the opportunity to provide information relative to the
12 apparent violations, including whether TVA believes
13 the violations occurred, the circumstances of the
14 issues and whether TVA employees engaged in deliberate
15 misconduct, the severity or safety significance of the
16 apparent violations from TVA's perspective, any errors
17 that are noted in the NRC's letter of March 9th, and
18 any escalation or mitigation considerations TVA would
19 like us to consider.

20 At this point I'd like to ask Mr. Sparks
21 to discuss the Agency's enforcement policy. Scott.

22 MR. SPARKS: Thanks, Ken. After an
23 apparent violation is identified, it's assessed in
24 accordance with the NRC's enforcement policy.

25 The assessment process involves

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1 characterizing the apparent violations to one of four
2 severity levels, based on safety and regulatory
3 significance.

4 For cases where there is a potential for
5 escalated enforcement action, that is where the
6 severity level of the apparent violation could be
7 characterized at Severity Level 1, 2 or 3, a
8 predecisional enforcement conference is held.

9 There are three primary enforcement
10 sanctions available to the NRC. They are notices of
11 violations, civil penalties and orders.

12 Orders may be issued for violations, or,
13 in the absence of a violation because of a significant
14 public health or safety issue, the NRC will not
15 normally impose a civil penalty against an individual.

16 A predecisional enforcement conference is
17 essentially the last step in the inspection
18 investigation process before there NRC makes its final
19 enforcement decision.

20 The purpose of the conference today is not
21 to negotiate an enforcement sanction, our purpose
22 today rather is to obtain information directly from
23 TVA that will assist us in determining the appropriate
24 enforcement action, such as a common understanding of
25 the facts, root causes and missed opportunities

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1 associated with the apparent violations, a common
2 understanding of the corrective actions taken or
3 planned, and a common understanding of the
4 significance of the issues and a need for a lasting
5 comprehensive corrective action.

6 We would also appreciate your views as to
7 whether there is any information that may be relevant
8 to the application of enforcement discretion for any
9 resulting and enforcement sanction.

10 The apparent violations discussed at this
11 conference are subject to further review and may
12 change prior to any resulting enforcement action.

13 It's important to note that the decision
14 to conduct this conference does not mean that the NRC
15 has determined that violations have occurred or that
16 enforcement action will be taken.

17 Following this predecisional enforcement
18 conference, the NRC will reach a final enforcement
19 decision. This process could take approximately two
20 months or more.

21 Finally, if the enforcement action
22 involves a proposed civil penalty or an order, the NRC
23 may issue a press release after the enforcement action
24 is issued. Mr. O'Brien will now briefly discuss the
25 apparent violations. Ken.

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1 MR. O'BRIEN: Thank you, Scott. Mr.
2 Rausch, in the letter we sent to Mr. Barstow dated
3 March 9th of this year we documented 12 apparent
4 violations. We had also included a factual summary of
5 the OI investigation as an enclosure to that letter.

6 Today I understand that you and the Staff
7 that you have with you are planning to discuss your
8 perspective on five of the 12 apparent violations.
9 Numbers 1, 2, 3, 5 and 6.

10 In summary, these apparent violations
11 involved a failure to follow procedures during a plant
12 startup associated with using the standby main feed
13 pump to maintain steam generator levels, a deliberate
14 failure to follow procedures associated with a change
15 to a procedure, which allowed the plant to draw a
16 bubble in the reactor coolant system at a lower
17 temperature than previously authorized, a deliberate
18 failure to follow procedures during a plant startup
19 associated with not assuring that required actions
20 were completed prior to entering Mode 4, a deliberate
21 failure to follow procedures associated with the
22 maintenance of control room logs during a plant
23 startup and a deliberate failure to follow procedures
24 associated with the return to service of the residual
25 heat removal system during a plant startup associated

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1 with an uncontrolled rise in the pressurizer water
2 level.

3 We'll now turn this portion of the meeting
4 over to you, Mr. Rausch, so that you and your staff
5 can give your opinion and perspective on the issues
6 and any information that you believe is relevant to
7 the NRC's enforcement determination. At this point
8 I'll ask you to proceed. Thank you, sir.

9 MR. RAUSCH: Okay, good morning. I
10 appreciate the opportunity to be here today and
11 provide the NRC with more information about the March
12 9th apparent violations.

13 I've worked in commercial nuclear industry
14 for over 30 years. I've held leadership roles in
15 operations, maintenance, engineering, outages,
16 training, quality, process re-engineering and project
17 manager.

18 I have senior reactor operator
19 certifications from a BWR-2 and BWR-6. As well as a
20 licensed operation training instructor certification.

21 I joined TVA in October of 2018 after
22 serving nine years at the Susquehanna Nuclear Power
23 Plant as a chief nuclear officer for PPL and Talen
24 Energy.

25 My personal experience at Susquehanna

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1 informs my view of the events that we are here today
2 to talk about. When I began working there in 2009,
3 the site had recently received the chilling effects
4 letter and led the nation in the number of anonymous
5 allegations to the NRC.

6 By 2017 the site had produced industry
7 excellence in safety, reliability and generation
8 results. And those results remain sustainable today.

9 I mentioned this to show that I personally
10 know what it takes to recover, continuously improve
11 and sustain excellent performance. And based on my
12 experience, I am confident that TVA is on the path to
13 achieving similar results as a fleet.

14 Events that led to the apparent violations
15 we're here to talk about today happened more than four
16 years ago. And while unacceptable, do not indicate
17 our current performance or culture.

18 Watts Bar is a different site and a
19 different leadership team. During the past several
20 years we've taken actions to improve our nuclear
21 safety culture.

22 If you were to step on the site at Watts
23 Bar today, you would observe and you would feel the
24 energy of the team that has the attitude and behaviors
25 to deliver safe, reliable and continuously improving

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1 results.

2 TVA's improvements have been recognized by
3 industry groups, by the NRC at public meetings, in
4 assessment letters and during follow-up inspections.

5 At the end of this predecisional
6 enforcement conference I want you to know three
7 things. One, we want to move forward. TVA takes full
8 ownership for past performance deficiencies and is
9 committed to building upon the improvements we've
10 already made.

11 Two, TVA wants to have a health regulatory
12 relationship with the NRC. We want to be treated
13 fairly, and we trust that any regulatory action will
14 be based on objective fact and a reasonable
15 interpretation of the NRC's own regulation.

16 And three, TVA stands behind its
17 employees. Our employees were doing the best that
18 they could while with working within a deficient
19 environment.

20 And to respond to the NRC questions about
21 an emergent situation with one limited exception, I
22 firmly believe that none of our employees engaged in
23 a deliberate misconduct that the NRC accused them of.

24 At Watts Bar we have a leadership team in
25 place based on their knowledge, skills and abilities

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1 to grow and sustain a health safety culture and
2 environment.

3 At CNO, I am passionate about and
4 committed to ensure our entire fleet leadership team
5 now and in the future leads with trust and respect,
6 with conservative operation that puts safety above all
7 and that we demonstrate the value of a safety
8 conscious work environment through our communication,
9 our actions and results.

10 Before I turn the presentation over I'd
11 like to comment on a few of the challenges that we've
12 had in responding to these apparent violations. These
13 events are nearly five years old. In many cases we
14 were not provided all the information needed to
15 efficiently and effectively evaluate and prepare it.

16 And while we haven't forgotten lessons we
17 learned, the passage of time has made it difficult to
18 respond to many of these allegations. This is
19 especially true because TVA's understanding of the
20 event was not the same as the NRC has outlined in the
21 apparent violation.

22 Because of that we hired outside counsel
23 to assist in developing our factual understanding so
24 we could do our best to put those details together and
25 help us decide if we needed to look at these events

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1 differently in light of the apparent violation.

2 TVA is happy to answer any questions that
3 you have today. But because our attorneys have
4 assembled the facts, we will often rely on them to
5 assist TVA in answering our questions.

6 With that, I will turn it over to Tony
7 Williams, our Site Vice President at Watts Bar for an
8 overview of past and current performances at this
9 site. Tony.

10 MR. WILLIAMS: Good morning. I am Tony
11 Williams, I am the Site Vice President at TVA's Watts
12 Bar Nuclear.

13 My previous work experience includes
14 positions as site vice president at the Sequoyah
15 Nuclear Power Plant, Palisades Nuclear Power Plant as
16 a plant manager and the operations director at Indian
17 Point Nuclear. I've obtained a senior reactor
18 operator license at both Indian Point Nuclear Station
19 and Salem Nuclear Station.

20 As Tim stated, we have learned a lot over
21 the last several years and we are committed to moving
22 forward to be better every day. We are dedicated to
23 maintaining a health nuclear safety culture, including
24 a health safety conscious work environment at all of
25 our facilities.

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1 We have already acknowledged that the
2 chilled work environment developed in the Watts Bar
3 operation department in 2015. The time when the
4 events that are the subject of the apparent violation
5 happened.

6 TVA has implemented its corrective actions
7 to successfully address the environment. Before
8 focusing on the improvements we have made, I will
9 briefly talk about where we were in 2015 and how we
10 got there.

11 MR. O'BRIEN: Mr. Williams?

12 MR. WILLIAMS: Yes.

13 MR. O'BRIEN: My apologies for
14 interrupting you, but your camera doesn't seem to be
15 on, and we like to have the camera on for anybody
16 that's speaking.

17 MS. ROELOFS: Is it on now?

18 MR. O'BRIEN: Yes, it is. Thank you very
19 much. My apologies for interrupting you again.

20 MR. WILLIAMS: All right, thank you, Mr.
21 O'Brien. Before we focus on the improvements I've
22 made I want to briefly talk about where we were in
23 2015 and how we got there.

24 Watts Bar operations organization did not
25 perform in an expected way. Human performance

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1 standards and operator fundamental shortfalls were
2 causing consequential errors.

3 In comparison to other utilities, the
4 operations department's performance was the bottom
5 quartile of the industry. Department performance gaps
6 existed in the following areas.

7 Human performance error prevention tools,
8 placekeeping, as seen in the document reviews for
9 placing RHR letdown in service to address the rising
10 pressurizer level, also proceeding using (audio
11 interference), as seen in operations logs and
12 condition report initiating.

13 A common factors analysis was identified
14 among other commonalities that documentation of issues
15 in log and corrective action program were not timely.
16 And in some cases, did not occur. In the absence of
17 this documentation it could be misconstrued as
18 deceptive and not just admission by an error.

19 Equipment monitoring as seen in October
20 21st, 2015 event, associated with entering Mode 2 with
21 both source range detectors inoperable.

22 Operator fundamentals, plant control and
23 conservative bias and this is associated with RCS heat
24 up on excess letdown with two evolutions, associated
25 with over, and two evolutions associated with

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1 overflowing the Unit 2 reactor vessel during a
2 reviewing outage.

3 Leadership behaviors. The OCC's rigor in
4 response to the main control room challenge of initial
5 assumptions associated with the activity of heating up
6 on that first letdown. Ineffective communications
7 leading to trust and safety culture issues within the
8 operations department.

9 Watts Bar was facing a number of
10 challenges which increased their workload and fatigue
11 at the site. TVA was near in the final completion of
12 Unit 2 for licensing fuel load in startup.

13 Several major work activities were ongoing
14 to support these efforts. The site faced multiple
15 planned and unplanned events including, a Unit 1
16 refueling outage, forced outages, and multiple
17 operational errors on both units.

18 Numerous site challenges, including the
19 ones listed above, led to site employees spending
20 significantly more time at work. Normal work
21 schedules were revised and provided additional
22 coverage. Which resulted in outage lite staffing
23 levels and hours on a routine basis. As a result,
24 attrition of time.

25 Safety culture and trust declining. At

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1 the same time the site was facing these downs, TVA was
2 seeking to raise the performance of Unit 1 in line
3 with the fleet objectives and to achieve top quartile
4 performance. TVA sought to do so through an
5 accountability model and a zero-tolerance initiative.

6 Several disciplinary actions were taken in
7 the operations department. Although these actions
8 were taken with the intent to raise performance
9 standards, the rationale and basis for these actions
10 were not always adequately communicated with the
11 workforce and negatively affected the environment.

12 Also, as part of this initiative, Watts
13 Bar began tracking rule deviations. This involved
14 expectation for employees who had violations of a
15 rule, be a greeter at the plant the following day to
16 discuss lessons learned with others. Although it
17 intended to be a learning opportunity, the initiative
18 was reviewed as negative by the workforce.

19 These are examples of what was, in
20 hindsight, an overly aggressive management style.
21 That was not objective at achieving the change within
22 the site culture.

23 As a result of the corrective action, the
24 site is as different today than it was in 2015. We
25 have made great strides in improving the work

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1 environment by also improving operator fundamentals
2 and operational performance at Watts Bar.

3 Today the senior leadership team is made
4 up of different individuals, with a different
5 leadership style. Operations department, due to
6 performance and fundamentals, has significantly
7 improved.

8 This department has not had a
9 consequential error since October of 2018. Current
10 performance is top quartile in the industry.

11 Our safety culture monitoring process are
12 now effective at identifying issues, that can impact
13 safety culture at a department level. And we are
14 committed to continuously monitoring and then taking
15 action to improve our safety culture.

16 The operations department is fully staffed
17 and developing a healthy pipeline supporting other
18 departments.

19 For operations safety culture, the
20 corrective actions are numerous. We have taken (audio
21 interference) and these initiatives have been laid out
22 in more detail, in written material that TVA has
23 submitted for the NRC before today's conference.

24 I want to highlight a few of these
25 examples here. We conducted a case study studying all

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1 of the issues associated with the November 11th, 2015
2 incident. We presented this to licensed operators,
3 outage control center staff, and the senior leadership
4 team.

5 The case study included the discussion of
6 the performance gap associated decision-making, with
7 management stop when unsure, and the use of the
8 corrective action program to document and resolve
9 these issues. And the procedure use and adherence
10 that we see in our review of this event.

11 Additionally the roles and the dynamics
12 between the main control room and the outage control
13 room were discussed.

14 Senior leadership conducted oral boards in
15 January of 2016 with all shift managers, to evaluate
16 and reinforce conservative decision-making,
17 responsibility and authority for stopping when unsure,
18 and procedure user adhering, including the use of
19 n/a's.

20 Following the completion of all these oral
21 boards, the same senior leadership team met with all
22 the shift managers to discuss the commonalities
23 identified in these oral boards as learnings and
24 expectations going forward to the shift managers. The
25 shift managers then formally sign their understanding

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1 of these expectations.

2 To include repetition of the chilled work
3 environment, TVA implemented the Watts Bar business
4 planning initiative and improved senior leadership
5 behaviors. Specifically related to managing a
6 changing work environment in effective communications
7 within the workplace.

8 Additionally to improve the safety culture
9 and trust at the site, we are strengthening our
10 support of our employee engagement initiatives. The
11 shop steward meetings are now constructive and meet
12 regularly with the senior leadership team to get a
13 good feedback on the leaders in the (audio
14 interference).

15 We have craftsmanship council that is
16 functioning to assess their own performance and
17 weaknesses in the fundamentals of stations learnings.

18 A union-led code of excellent initiative
19 is held to alleviate the challenges of communication.
20 With our ambassadors getting engaged with
21 communicating with management and union on issues, to
22 ensure we all share the same understanding of the
23 challenges. And employee advisory council that takes
24 initiative, works within the department and then
25 filters them up to the leadership team for action.

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1 I am proud of the progress we have made,
2 and I am confident that the issues associated with the
3 apparent violation, have been fixed. I trust that the
4 NRC will take TVA's already extensive corrective
5 actions into account when evaluating the timeliness
6 adequacies in comprehensive of our action that can
7 address these areas of concern identified in the March
8 9th, letter so that we can continue to move forward
9 with our improvement and focus on the future.

10 I will now turn it over to Mr. Jim Barstow
11 to briefly address the regulatory aspect of the
12 apparent violation.

13 MR. BARSTOW: All right, thank you, Tony.
14 Good morning. My name is Jim Barstow, I am the Vice
15 President of Nuclear Regulatory Affairs and Support
16 Services.

17 I have worked in the nuclear industry for
18 over 30 years beginning with my service in the U.S.
19 Navy. I have been with TVA since the fall of last
20 year and previously served in leadership roles and
21 areas of work management, performance improvement,
22 licensing, regulatory affairs, organizational
23 effectiveness and radiation protection.

24 Additionally, I hold a senior reactor
25 operator certification for Clinton Power Station.

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1 I would like to note a few relevant,
2 specific personal experience in 2005. At that time I
3 was assigned to the Exelon management team as part of
4 the operating agreement at Salem and Hope Creek during
5 the period when NRC had issued crosscutting issues in
6 the areas of corrective action programs and safety
7 conscious work environment.

8 I had the responsibility at that time, as
9 the chief corrective action program manager had made
10 many changes that resulted in satisfying our self and
11 the NRC that the program was effective and sustainable
12 and would support a strong safety conscious work
13 environment.

14 I bring this experience up only to provide
15 context of my own personal exposure and understanding
16 of issues similar to the ones we are going to talk
17 about in the coming days.

18 I want to state emphatically and
19 unequivocally the TVA values, this relationship with
20 the NRC. TVA has been, and continues to be, committed
21 to maintaining an honest and open communication with
22 the NRC.

23 TVA leadership understands that timely and
24 open communication is vital to ensuring that there is
25 a health and trusting relationship between the NRC and

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1 TVA. Before our counsel gets into the details of the
2 AVs, the apparent violation, I would like to share
3 with you two concerns I have based on my 30 years of
4 industry experience and my discussions with industry
5 colleagues.

6 The proposed apparent violations for 50.9
7 are troubling because they would set a new precedence
8 for what the NRC considers enforceable. The proposed
9 escalated enforcement relies on information from drop-
10 in meetings, backup slides that apparently were not
11 provide to NRC and narrow interpretations of
12 information used in informal and non-regulatory
13 decision-making form.

14 In reality, the basis for the apparent
15 violations represent misunderstands for knowledge gaps
16 on the part of the individuals regarding evolving
17 issues.

18 TVA understands that it is essential to
19 provide NRC complete and accurate information in all
20 venues. With one exception we believe this occurred.

21 TVA also believes that the apparent
22 violation of the 50.9 would set new precedence in all
23 but one case. This is troubling because the new
24 precedence would likely have a detrimental effect on
25 feature industry communications with the NRC during

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1 inspections and management discussion.

2 My second concern is regarding the
3 unstated theme that appears to underline the majority
4 of all the apparent violations. TVA believes that the
5 investigators developed a theory that Watts Bar
6 orchestrated a cover-up of operational decision in
7 November of 2015, the level of management involved in
8 this decision in an attempt to conceal the issues.

9 This theory is absolutely incorrect and
10 has been wrongly used by the NRC as support for the
11 proposed apparent violation.

12 The NRC appears to presume that the
13 individuals must have intentionally violated
14 requirements and then tried to cover it up. This is
15 not the case. Rather, there were well documented
16 performance and safety culture issues at Watts Bar in
17 2015, as Mr. Williams just outlined for you.

18 The issues identified in Apparent
19 Violations 1 through 6 represent consequences of that
20 degraded work environment and safety culture. The
21 information accuracy identified in Apparent Violation
22 7 through 12 are, for the most part, the result of
23 viewing our facts from that time frame through the
24 lens of an inappropriate cover-up theory.

25 The body of evidence shows that the

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1 individuals were independently acting in good faith
2 with un-received consequences in terms of either
3 process or perception. The safety of the nuclear
4 plant was never in question nor was there any
5 significant risk to public health and safety.

6 I'd like to now ask our legal counsel to
7 give a few additional opening comments.

8 MR. O'BRIEN: Mr. Barstow, before you move
9 it on, may I ask everybody that's not speaking to mute
10 their mics, as there are a few that are not. And then
11 also in your room may I ask if you'd make sure that
12 the microphone for whoever is speaking is very close
13 to them. We're having a little bit of difficulty with
14 feedback.

15 MS. ROELOFS: Mr. O'Brien, this is
16 Patricia Roelofs, the TVA lead, we have one audio in
17 the room so we're not using audio on our computer.
18 Can you hear me okay?

19 MR. O'BRIEN: I can hear you okay, it's
20 the background noises that are causing a little bit of
21 difficult in your room. And then there are a few
22 people that are also on the line that have their
23 microphones open, and they should close them.

24 MS. ROELOFS: Okay, yes, sir. Tell us if
25 you still have problems after those folks' mute

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1 because I can get our IT person here. But we're using
2 the room audio, not the computer audio.

3 MR. O'BRIEN: Thank you very much. I'll
4 let you go ahead and I'll wait till we're finished
5 with the next speaker before I interrupt again. Thank
6 you.

7 MS. ROELOFS: Okay, thank you, sir.

8 MR. HILL: Thank you, Jim. My name is Tom
9 Hill. I'm with Pillsbury here representing TVA.

10 I'm a litigator who has spent more than 40
11 years, first prosecuting as an Assistant United States
12 Attorney and then representing and defending companies
13 and individuals accused of some form of misconduct.
14 Whether in a criminal, civil or administrative
15 context.

16 Although over the years I've represented
17 other companies and individuals in NRC related
18 criminal and administrative matters, I'm pretty
19 confident that of all the people in this virtual room,
20 I'm the least familiar with nuclear matters generally
21 and with the NRC.

22 But I do know a lot about due process and
23 fairness in conducting proceedings that are designed
24 to learn the truth. So I want to take just a few
25 minutes to talk about this process.

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1 TVA and the ten accused individuals have
2 collectively spent thousands of hours trying to
3 uncover all the facts surrounding the events of
4 November of 2015 and their aftermath.

5 In March of this year these ten people,
6 and TVA, were issued apparent violations accusing them
7 of deliberate misconduct. This very serious and high
8 standard has been defined by the NRC to require proof
9 of essentially criminal conduct.

10 So as you might imagine, it was very
11 upsetting to these people, and to TVA, to be so
12 accused.

13 But what made these allegations all the
14 more troubling was that they were made without
15 disclosure of most of the underlying facts that led
16 the NRC to make these serious accusations. That, of
17 course, includes the unwillingness of the NRC to
18 disclose and make available to the accused its OI
19 report upon which presumably these allegations are
20 based.

21 It has also become apparent that the NRC
22 is relying heavily on TVA OIG memoranda. Reporting to
23 summarize interviews conducted by the TVA OIG and/or
24 the United States Attorney's Office beginning in
25 January of 2016 and continuing for several years.

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1 Over my 40 plus years, first as a
2 prosecutor, now as a defense counsel, I have become
3 all too aware of how inaccurate and misleading these
4 investigative memoranda of interviews can be. Whether
5 by the TVA OIG, the FBI or other investigative
6 authorities.

7 These memoranda tend to be relied upon as
8 transcripts, yet nothing could be further from the
9 truth. Rather, hours long interviews are reduced to
10 two or three page memos.

11 And whether through sloppiness, time
12 pressures, inadvertence or otherwise, these memoranda
13 often mischaracterize, misquote, distort and fail to
14 contextualize the interviews they purport to
15 accurately summarize.

16 For the NRC now to be so heavily relying
17 on these memoranda with at least, without at least
18 giving TVA access to full underlying notes, recordings
19 or transcripts, is contrary to an objective of
20 determining what the truth is and what a proper
21 outcome of these PECs should be.

22 Of course, if any of these matters proceed
23 to litigation, we will get access to all these
24 investigative memoranda and the underlying notes and
25 other materials. And we will have the opportunity

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1 ourselves to interview directly, not only those
2 interviewed, but the interviewers themselves.

3 But to have to wait to learn what actually
4 occurred during the OIG interviews would come at the
5 cost of reputational, financial and emotional harm,
6 which could have been avoided by a more transparent
7 policy of sharing the information now.

8 Indeed, once we began exploring the actual
9 allegations, it became obvious to us that many of them
10 were predicated upon facts which appeared to simply be
11 incorrect. Thus by way of one example, four
12 individuals from TVA are accused of deliberate
13 misconduct in connection with a January 6th drop-in
14 meeting at which, according to the NRC, a slide was
15 presented characterizing certain conclusions as
16 "causes," even though the slide referred not to
17 "causes" but to "insights."

18 It turns out of course that this was a
19 backup slide that no one believes was ever shared to
20 the NRC. So why is the NRC relying on it?

21 Presumably the NRC has some undisclosed
22 evidence that contrary to all evidence TVA is aware
23 of, the slide was actually shared and that it was
24 somehow characterized as causes and not insights, as
25 was written.

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1 So how were these four individuals and TVA
2 to confront evidence and facts that have been withheld
3 from them?

4 Of course, if we were compelled to go to
5 litigation we would be able to find out the answers to
6 these questions from the NRC attendees and from the
7 TVA OIG, who I suspect may well be the source of the
8 slide. But without having that information now, we
9 are led to speculate, and that is not as it should be.

10 I mention this only as one example. But
11 the apparent violations are filled with what seem to
12 be factual inaccuracies. Or at least conclusory
13 allegations with no factual information to support
14 them.

15 Emails are simply referred to generically
16 as emails, leaving everyone to guess as to which
17 emails the NRC might be referring to. Individuals are
18 unnamed, leaving the accused to speculate as to who
19 they might be.

20 All of which is to say this process of
21 forcing the accused to guess and speculate as to what
22 the NRC may be referring to is not one conducive to
23 learning the truth. And I might add is totally
24 unnecessary.

25 This is not a drug distribution case where

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1 one might feel the need not to disclose certain
2 information for free of it being misused, rather this
3 should be a search for truth. And in that process the
4 accused are entitled as a matter of fundamental due
5 process and fairness, know all the facts that form the
6 basis for the allegations against them so they can
7 confront them directly and head on.

8 Presumably, the purpose of these PECs is
9 to find that truth. And for the NRC to be certain
10 that it's correct when, and if, it makes public any
11 violation or order.

12 This is serious business with very serious
13 implications for the livelihoods, the reputations and
14 emotional well-being of these ten people. For the
15 reputation of TVA and for the confidence of the public
16 in TVA.

17 I know I speak for (b)(7)(C) and
18 Todd Blakenship, Pillsbury's other clients in these
19 apparent violations. And I am very confident that I
20 also speak for the eight other charged individuals.

21 It is simply not enough that if charged
22 through a litigation process each person in TVA will
23 have the opportunity to learn all the facts, which had
24 previously remained hidden and undisclosed.

25 To really have a meaningful PEC which

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1 allows the NRC to make its most considered judgement
2 about these allegations, it would have been far
3 preferable and far fairer to lay out all the evidence
4 the NRC was relying on and let the accused confront
5 it.

6 As it is, we are unfortunately left with
7 speculating and guessing about much of the bases,
8 these allegations. And we can only hope that we have
9 guessed and speculated correctly as we have now turned
10 to address these allegations.

11 I think you heard Mr. Rausch state in the
12 beginning that TVA's goal is to move forward and build
13 upon its work in improving performance at Watts Bar.
14 I sincerely hope this is a goal that the NRC shares.

15 Having a PEC that is not fair or
16 meaningful does not help us reach that goal. Instead,
17 it puts TVA in the position where it will potentially
18 have to focus its energy on years of further
19 litigation, just to discover facts that if it had now
20 known, would use for the productive purpose of
21 addressing any of the NRC's concerns in using them to
22 drive further continuous improvement.

23 From here I will turn it over to my
24 colleague, Mike Lepre, to preliminarily list some of
25 the allegations specifically and give you a roadmap

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1 for the next remaining days.

2 MR. LEPRE: Good morning. I'm Mike Lepre
3 with Pillsbury.

4 As TVA's Counsel we'd like to thank you
5 for the opportunity to assist TVA in providing you
6 with information regarding these apparent violations.
7 As you know, we've already provided you with some more
8 detailed written responses, as well as an exhibit
9 book.

10 We've done that because although we do
11 have three days to discuss these AVs, there are many
12 details and arguments that we might not specifically
13 cover orally or just simply better explained in
14 writing. So we just wanted to make sure that the NRC
15 has the benefit of all the information that TVA has
16 gathered in response to the AVs.

17 I'd like to spend a few minutes this
18 morning discussing the relevant legal standard, as
19 well as giving you a roadmap to some of the, to the
20 responses that you'll hear from TVA in greater detail
21 over the next few days.

22 So beginning with the legal standard, as
23 you know TVA has been accused of 12 apparent
24 violations alleging that its employees engaged in
25 deliberate misconduct. But to define deliberate

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1 misconduct the Staff must determine, under 10 CFR,
2 Section 50.5, that individuals working for TVA
3 intentionally sought to violate an NRC requirement.
4 This is an extremely high standard.

5 Commission's regulations, orders and
6 statements interpreting its regulations make clear
7 that a finding of deliberate misconduct requires an
8 intent to commit wrongdoing. The rule states that
9 "deliberate misconduct by a person means an
10 intentional act or omission that the person knows
11 would cause the licensee to be in violation of a
12 commission rule, regulation or order.

13 The facts you've heard over the last few
14 weeks, and what TVA will explain over the next few
15 days, said that even if some violations may have
16 occurred, they were no deliberate violation so this
17 extremely high standard can't be met.

18 Before I get to the facts, it's important
19 for the Commission to consider its own words when it
20 promulgated 50.5 because the Commission said the
21 deliberate misconduct should apply only in extremely
22 circumstances where an intent to commit wrongdoing is
23 clear.

24 When it put 50.5 in place the Commission
25 explicitly stated that the rule applies only to

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1 individuals who deliberately set in motion events that
2 would cause a violation. The Commission also said
3 that an individual acting in this manner, in this
4 manner, has the requisite intent to act in a wrongful
5 manner.

6 The Commission made clear that the
7 deliberate misconduct rule does not apply in cases of
8 negligence, honest mistake or ignorance. And it
9 doesn't apply where people made mistakes while they
10 were acting in good faith.

11 The Commission also explained that 50.5
12 does not include acts done in careless disregard or
13 requirements. Instead it's a narrower rule that
14 applies only to deliberate misconduct.

15 And finally, just to emphasize that high
16 standard, the Commission found that "under this rule
17 the range of action that would subject an individual
18 to action by the Commission does not differ
19 significantly from the range of actions that might
20 subject the individual to criminal prosecution.

21 In that point it's significant to note
22 that both the United States Attorney's Office for the
23 Eastern District of Tennessee, as well as the main
24 Justice Department in Washington, has evaluated all
25 the facts in this matter and concluded that no

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1 criminal prosecution was warranted.

2 TVA wants the NRC to know, as it will
3 explain, that it doesn't dispute that certain
4 violations occurred. But as you've heard over the
5 last few weeks, and will hear over the next few days,
6 nobody at TVA, with the exception of Billy Johnson
7 during parts of his December 18th, 2015 NRC interview,
8 nobody else intentionally violated any requirements.

9 To give you a preview of the next few days
10 at a high level, TVA plans to address the AVs in three
11 groups. Or as we've been calling them, three buckets.

12 The first bucket is AVs 1, 2, 3, 5 and 6.
13 Second bucket will be AVs 4, 7 and 9. And the third
14 bucket is AVs, consistent AVs 8, 10, 11 and 12.

15 Turning to the first group we'll discuss
16 AVs 1, 2, 3, 5 and 6 together, since they all involved
17 TVA procedures. We'll explain that TVA doesn't
18 dispute that aspects of these violations occurred but
19 will also explain why there was no deliberate
20 misconduct.

21 With respect to AV 1, TVA will acknowledge
22 that an unintentional violation, Technical
23 Specification 5.7.1, did occur.

24 Regarding AV 2, TVA will acknowledge that
25 a non-deliberate violation occurred, given how the

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1 procedure change at issue was interpreted and applied.

2 For the reasons Mr. (b)(7)(C) explained
3 during his PEC, TVA has also concluded that Mr.
4 (b)(7)(C), in good faith, believed at the time that
5 the procedure change was minor or editorial. And
6 that's really what matters here of course, what Mr.
7 (b)(7)(C) understood at the time.

8 He showed during his PEC how he's a person
9 of high integrity. And he more than credibly
10 explained that it never occurred to him that the
11 change would, or even could, be used to draw the
12 bubble before the RCS temperature reached 135 degrees.
13 And as he said, he actually had no idea that the
14 bubble was even drawn at below 135 degrees until just
15 a few months ago when he did some research in
16 connection with his apparent violation.

17 We understand that in his written
18 submittal Mr. Sprinkle, now a benefit of hindsight,
19 does not dispute that he was mistaken when he thought
20 the procedure change was minor or editorial. When he
21 also explained that he honestly believed at the time
22 that the change was minor. And that Mr. (b)(7)(C)
23 correctly processed it.

24 Moving to AV 3, TVA won't dispute that it
25 failed to meet certain startup procedures. But TVA

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1 does dispute that those acts were intentional.

2 TVA found that the shift manager, Billy
3 Johnson, wasn't aware there was a Mode 5, Mode 6
4 restraint before he authorized the main control room
5 to enter Mode 4. TVA also found that it was entirely
6 reasonable for Mr. Johnson to rely on information that
7 was provided to him in the main control room, which
8 showed that the unit was ready to enter that mode.

9 TVA also will not dispute the allegation
10 in AV 5. It's true that the RHR event was not
11 properly logged.

12 This was a result of a hectic day in the
13 main control room. Frankly, TVA had a history of poor
14 logging. Which is long since corrected.

15 This was really just an unacceptable case
16 of sloppy work during a very busy time. But there is
17 absolutely no evidence showing you ten.

18 In fact, it's quite a leap without any
19 factual basis whatsoever for the NRC to speculate and
20 then to allege that there was in effect some sort of
21 coordinated effort by Billy Johnson and all of the
22 control room operators on that day, to hide
23 information from the NRC or anybody else.

24 Finally, for our first bucket, TVA will
25 concede under AV 6 that the RHR pump was not started

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1 as required. But that also wasn't an intentional
2 violation.

3 Mr. Johnson previously stated that he
4 wasn't within the procedure at issue so he couldn't
5 have intended to violate it. Instead, he said he was
6 taking prudent operator action to address the rise in
7 pressurizer level.

8 He said that he didn't think there was any
9 need to put RHR back in service because they were only
10 establishing letdown. And he believed it wouldn't
11 have been prudent to start the RHR pump unnecessarily.

12 I'll now move on to TVA's second bucket,
13 AVs 4, 7 and 9. As for AV 4, as you've already heard,
14 TVA acknowledges that there were issues with its
15 workplace environment. TVA will also acknowledge that
16 as its root cause analysis found, non-conservative
17 decision-making did occur while the plant was heating
18 up.

19 But as you've heard from Mr. (b)(7)(C) and Mr.
20 (b)(7)(C), they obviously didn't intent to create a
21 workplace environment where employees would make non-
22 conservative decisions or favor production over
23 safety. They were attempting, in good faith, to
24 improve accountability in a workplace that had been
25 performing poorly.

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1 AV 4 involves a lot of other issues and
2 individuals, too many to cover here in my summary.
3 But for now I'll just add that TVA will deny that
4 those employees engaged in deliberate misconduct, as
5 the NRC alleges, in AV 4.

6 We'll explain the basis for those denials
7 in substantial details during the conference. And
8 we've also done that, at lengths, in our written
9 submittal.

10 Moving on. TVA will also deny the
11 allegations in AV 7. Mr. (b)(7)(C) and (b)(7)(C) explained
12 in their PECs, certainly appears they didn't even
13 provide the NRC with the written response that they're
14 a subject of AV 7.

15 But based on the evidence available to it,
16 TVA believes that the NRC likely has alleged
17 violations against TVA for providing inaccurate or
18 incomplete information in an internal TVA document
19 that they didn't even give to the NRC.

20 But even if the written response, that
21 appears to be at issue here, had been provided, Mr.
22 (b)(7)(C) and Mr. (b)(7)(C), excuse me, Mr. (b)(7)(C) and
23 Mr. (b)(7)(C), excuse me, technical difficulties. But
24 even if the written response that appears to be at
25 issue had been provided, Mr. (b)(7)(C) and Mr. (b)(7)(C)

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1 showed the document, showed that the document in
2 question was clearly accurate and complete when looked
3 at in the proper context.

4 The evidence has shown that the written
5 response, if it was provided to the NRC at all, would
6 have been part of an exchange of information during an
7 in-person meeting. Both Mr. (b)(7)(C) and Mr. (b)(7)(C)
8 record discussing, recalled discussing verbally with
9 Mr. Nadel on December 12th and December 14th that RHR
10 letdown was used to control the pressurizer level.

11 And it's simply not plausible that Mr.
12 Nadel, an experienced NRC inspector, didn't notice or
13 was misled by TVA. The only reasons for putting RHR
14 letdown into service in Mode 4 would have been to
15 control pressurizer level.

16 But in any event, the document that Mr.
17 (b)(7)(C) and Mr. (b)(7)(C) allegedly provided to Mr. Nadel
18 on December 14th included dataware graphs clearly
19 showing that the pressurizer level was rising until
20 the RHR valves were opened. They would not have
21 included those graphs if they were trying to hide that
22 very information from the NRC.

23 TVA will also deny, at least in part the
24 last allegation in our second bucket, AV 9. As we'll
25 explain in greater detail, TVA doesn't dispute that

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1 Mr. Johnson made certain statements on December 18th,
2 2015 to the NRC that were inconsistent with the
3 subsequent emails and statements.

4 And although TVA doesn't contest that his
5 statements were deliberate, nor does TVA condone them
6 whatsoever, TVA acknowledges that his lack of candor
7 apparently was due, at least to some extent, by a fear
8 of losing his job.

9 We'd also like to point out that as his
10 written submittal to this panel showed, Mr. Johnson
11 corrected his statements to the NRC soon after he made
12 them.

13 Also with respect to AV 9, TVA will
14 describe why it sees no basis, whatsoever, for finding
15 that Mr. (b)(7)(C) provided the NRC with inaccurate or
16 incomplete false testimony on December 18th.

17 The NRC alleges that Mr. (b)(7)(C) made
18 three statements that were inaccurate or incomplete.
19 But as we'll explain, two of the alleged statements
20 are simply mischaracterizations of his testimony and
21 those should be easily dismissed.

22 The third statement by Mr. (b)(7)(C) is
23 complete and accurate when understood in the context
24 of his entire interview. His answers on December 18
25 regarding the lack of operator concerns related to

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1 what had been communicated to him on November 11,
2 2015, when the heat up on access letdown was being
3 planned and when the actions were taken.

4 TVA's third and final bucket at AVs
5 consisted of AVs 8, 10, 11 and 12, each of which TVA
6 will deny. TVA will deny the alleged violation in AV
7 8 relating to the January 6th, 2016 management visit
8 between TVA and NRC Region II management.

9 For the reasons that various witnesses
10 explain to you in your PECs, it appears from the
11 evidence available to TVA that the backup slide, which
12 forms the very basis of AV 8, wasn't even presented or
13 discussed at the meeting.

14 This is the second example where it
15 appears to TVA that based on the evidence available
16 allegations were inaccurate, were incomplete
17 statements to the NRC, are based on documents that TVA
18 believes it never even gave you and never even
19 discussed with you.

20 And if it had been, and even if it had
21 been presented to the NRC, which TVA does not believe
22 to be the case, the slide explicitly provided
23 "insights into the RHR event." TVA's concern about
24 how the NRC has converted the term insights into
25 causes, and then based an apparent violation on that

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1 by the slides very terms, it was not a discussion of
2 the events caused.

3 In addition, in TVA's view it's simply not
4 logical to claim that TVA personnel would have
5 discussed causes of the event at this meeting when TVA
6 had not yet even started its apparent cause analysis.

7 TVA will also describe, it's found that
8 TVA's participants in the January 6th meeting had no
9 apparent awareness at the time that main control room
10 operators had raised concerns with outage center
11 control managers. It could not on January 6th discuss
12 with the NRC matters that they weren't yet aware of.

13 Licensees of course must always provide
14 complete and accurate information to the NRC, in any
15 context, as TVA's employees did here. Nevertheless,
16 TVA is concerned about the NRC setting a precedent
17 here that would put up a serious barrier to free
18 exchanges of information during management or drop-in
19 meetings.

20 TVA will also deny the apparent violations
21 described in AVs 10 and 11. First, as you heard
22 during the individual PECs, the apparent cause
23 analysis report, or the ACA as we'll refer to it, was
24 not incomplete or inaccurate.

25 The overwhelming weight of the evidence

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1 clearly shows to TVA that as the ACA reports found,
2 members of the OCC, other than Mr. Sprinkle, were not
3 aware of operator concerns on November 11th.

4 Regarding the NRC's allegation that the
5 ACA report failed to say that the OCC was involved in
6 discussions and decision-making on November 11th, TVA
7 has found that the report accurately reflected what
8 was known to the ACA team on the date the report was
9 finalized. And the report also did attribute
10 appropriate responsibility for the OCC.

11 The NRC can't expect an ACA to include
12 information that the preparers didn't know about at
13 the time. TVA will explain that the ACA should of
14 course be viewed as the result of an investigation
15 that identified what was apparent to the ACA team at
16 the time, not things that were subsequently
17 identified.

18 In any event, the NRC also knew that TVA's
19 investigations were not complete because the ACA
20 report told them that when it specifically recommended
21 further inquiry.

22 AV 11 implicates a presentation that TVA
23 made to the NRC regarding the ACA. In denying AV 11,
24 TVA will present many of the same arguments that I
25 just discussed.

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1 February 2 presentation at issue in AV 11
2 was a high-level summary of the ACA. Again, it was
3 based on what the ACA team knew at the time. And
4 again, the NRC knew that more was coming.

5 TVA expressly told the NRC that a root
6 cause was in progress. And that a root cause analysis
7 had been initiated "to evaluate other factors
8 associated with decision-making and critical thinking,
9 including extent of cause and condition." And that's
10 exactly what the root cause analysis did just a few
11 weeks later.

12 Absolutely no intent whatsoever to hide
13 information from the NRC. Finally, AV will deny --
14 TVA will deny AV 12.

15 TVA will explain how the evidence supports
16 a conclusion that Mr. (b)(7)(C) used the term "completed"
17 in his informal talking points to accurately convey
18 that TVA had completed the employee concerns program
19 investigation and the special review team
20 investigation and that both teams had come to the same
21 critical conclusion as the NRC. That a degraded work
22 environment in operations existed at Watts Bar.

23 While there would be some editorial
24 changes before the document was formally issued about
25 a week later, that ultimate conclusion that a degraded

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1 work environment existed in operations did not change.

2 The evidence Mr. (b)(7)(C) presented also
3 showed that it was entirely accurate for the talking
4 points to describe the two reports, quote, as
5 independent because of the makeup of the teams
6 preparing the reports. And while it's true that the
7 ECP report was an input to the SRT report, both teams
8 understood this but they did their work separately.
9 And that's what Mr. (b)(7)(C) meant by independent.

10 TVA's concern that the NRC is considering
11 banning Mr. (b)(7)(C) from the industry in finding
12 intentional misconduct because the talking points used
13 single words, completed and independent, that the NRC
14 apparently interpreted differently from what Mr. (b)(7)(C)
15 very reasonably intended.

16 Also clear to TVA that Mr. (b)(7)(C) was not
17 withholding information when he didn't tell the NRC
18 that one purpose of the SRT would have been to
19 influence the NRC.

20 In TVA's view, Mr. (b)(7)(C) had every reason
21 to believe the NRC understood that this would have
22 been one aspect of TVA's efforts and that it did not
23 need to be explicitly stated. That's what licensee
24 submittals typically do, seek to influence the NRC.

25 In summary, over the next few days TVA

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1 will not dispute certain violations and will deny all
2 or parts of others. But with the exception of AV 9,
3 regarding certain parts of Mr. Johnson's December 18
4 interview, TVA will dispute that any of its employees
5 engaged in intentional, deliberate misconduct as the
6 NRC has interpreted at extremely high standard.

7 In closing, a common and unspoken theme
8 that seems to run through the 12 apparent violations
9 is that TVA directed some type of concerted effort to
10 hide the events of November 11th from the NRC on that
11 day, and then to cover up what actually happened and
12 why it happened.

13 This began with a preposterous, and
14 frankly offensive suggestion that somehow TVA planned
15 and choose Veterans Day for this evolution in order to
16 avoid detection. There was no such concerted effort
17 here. Inconceivable to suggest otherwise. There is
18 simply no evidence of any kind to support that
19 conjecture.

20 Mistakes were made regarding failures to
21 follow certain procedures and TVA will acknowledge
22 those. And the work environment, unfortunately, was
23 not the greatest, as TVA has also acknowledged.

24 But TVA will show that the challenge, the
25 honesty and the integrity of ten of its valued

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1 employees, to accuse them all of intentionally
2 coordinating an effort to cover up an event, lie to
3 the NRC and withhold information, that's
4 unconscionable and inconsistent with the actual
5 evidence here.

6 Impact their livelihoods with industry
7 bands and to assess penalties from TVA for those
8 actions under the facts and evidence here would be a
9 terrible injustice. Thank you. I'll now turn over
10 the presentation to Jim Barstow and Dave Lewis to
11 discuss Apparent Violations 1 through 3 and 5 through
12 6.

13 MR. BARSTOW: Okay, thank you, Mike.

14 MS. ROELOFS: Mr. O'Brien, this is
15 Patricia Roelofs from TVA. I do think that we have a
16 break in our agenda for today, but I don't know, from
17 the NRC's perspective, how they wanted to continue.

18 MR. O'BRIEN: Tricia, you are taking the
19 words directly out of my mouth. Yes, you're correct,
20 we have a break scheduled after we completed these
21 opening dialogues, so what I'd like to do is I'd liked
22 to take a break from now until 25 minutes after the
23 hour.

24 MS. ROELOFS: Yes, sir, thank you.

25 MR. O'BRIEN: Thank you very much. We'll

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1 come back on the record at 25 minutes after the hour.

2 MS. ROELOFS: Thank you.

3 MR. O'BRIEN: Thank you.

4 (Whereupon, the above-entitled matter went
5 off the record at 9:09 a.m. and resumed at 9:26 a.m.)

6 MR. O'BRIEN: Good morning, everybody. It
7 is 25 minutes after the hour, so I'd like to begin.

8 Let me do a few checks to begin with.

9 Court reporter, can you hear us?

10 COURT REPORTER: Yes.

11 MR. O'BRIEN: Marcia, are you with me?

12 MS. SIMON: I am.

13 MR. O'BRIEN: Nick?

14 MR. HILTON: I had to get back.

15 MR. O'BRIEN: Understood. Thank you,
16 Nick.

17 Scott?

18 MR. SPARKS: Yes, Ken, I'm up. I'm on and
19 ready.

20 MR. O'BRIEN: Mr. Barstow?

21 MR. BARSTOW: Yes, Ken, we're here.

22 MR. O'BRIEN: The floor is yours, sir.
23 Thank you.

24 MS. ROELOFS: This is Tricia Roelofs from
25 TVA. Before Mr. Barstow gets started, we had a couple

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1 of remarks that Mr. Rausch would like to make before
2 Mr. Barstow proceeds.

3 MR. RAUSCH: Mr. O'Brien, can you hear me?
4 This is Tim Rausch.

5 MR. O'BRIEN: Yes, I can, sir. Thank you.

6 MR. RAUSCH: Yes, we have been reflecting
7 since the start this morning, and through previous
8 correspondence with George Wilson, it had been made
9 clear to us many times that he was the ultimate
10 decision-maker regarding these proceedings. So, due
11 to the fact that he's not present, we're questioning
12 whether or not we should be postponing until he can be
13 present.

14 MR. O'BRIEN: No. I appreciate your
15 position, Mr. Rausch. I am the panel lead and I will
16 make the recommendations to the Agency as a whole as
17 to the course of action we take along with my panel
18 members. But, in the case of any enforcement
19 decision, the Office of Enforcement Director is the
20 ultimate answerer to the Commission and to the EEO.
21 So, normally, this is how we approach the process.
22 So, the panel here will make the final recommendation
23 to the Agency as we move forward.

24 MR. RAUSCH: Okay. I wasn't done with my
25 question, but thank you for that information.

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1 MR. O'BRIEN: My apologies. I thought you
2 were.

3 MR. RAUSCH: I still would like to offer
4 that, with your clarification, he's still an important
5 component of the proceedings, and I still offer the
6 question: does it make more sense to postpone until
7 he is present?

8 MR. O'BRIEN: Thank you for your comments,
9 Mr. Rausch. This is the way the Agency has chosen to
10 move forward with the panel and how we'll go about our
11 business.

12 MR. RAUSCH: Okay. I understand. Thank
13 you for listening.

14 MR. O'BRIEN: Thank you very much for the
15 question. I appreciate it.

16 MR. BARSTOW: Panel, I'd like to continue
17 with our presentation now.

18 MR. O'BRIEN: That would be excellent.
19 Thank you, sir.

20 MR. BARSTOW: All right. Thank you.

21 I'll start with TVA's position on Apparent
22 Violation 1. As detailed in our written submission,
23 TVA acknowledges that a performance deficiency and
24 violation of Watts Bar Procedure 1-GO-2 occurred in
25 October of 2015. The failure to follow procedures

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1 occurred because 1-GO-2 required the use of auxiliary
2 feedwater, or AFW, system to maintain the steam
3 generator level and surveillance 1-TRI-3-903 required
4 a flow to the steam generators from the standby main
5 feed pump.

6 In October 2015, the Mode 3 procedure
7 conflict was not recognized by operators when they
8 established the conditions required by the
9 surveillance procedure. While technically possible to
10 meet the planning conditions required for the
11 surveillance and maintain the steam generator levels
12 with AFW, the guidance in the surveillance procedure
13 was insufficient to establish this alignment. The
14 surveillance procedure included generic language that
15 said to feed the steam generators using the standby
16 main feed pump.

17 This violation had no effect on safety
18 because AFW was available to maintain steam generator
19 level and was in operation to satisfy Tech Spec 3.3.2
20 requirements for the AFW system auto-start function
21 during the time the standby main feed pump was in
22 service to support the surveillance.

23 This was a verbatim compliance issue
24 involving two conflicting procedures which was not
25 recognized in October of 2015. More recently, the

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1 need for additional guidance to establish the test
2 configuration was identified by Watts Bar operators
3 during the Unit 2 spring 2019 refueling outage.
4 Condition Report CR-1516431 was written and
5 appropriate actions were taken.

6 This example demonstrates that the site's
7 focus on operator fundamentals since 2016 has made
8 positive impact on procedure use and adherence at the
9 station. Corrective actions were taken in response to
10 the CR which restored compliance to support completion
11 of this surveillance during the Unit 2 2019 outage.
12 A one-time procedure change was processed to conduct
13 the surveillance while the plant was in Mode 2 using
14 a main feed pump to establish the test conditions.

15 Longer-term actions to modify the
16 surveillance procedure for Unit 1 and Unit 2 for
17 appropriate use of the standby main feed pump in Mode
18 3 are identified in the Corrective Action Program.
19 These actions are due prior to the Unit 1 fall outage
20 in 2021 and the Unit 2 outage in the spring of 2022.

21 In terms of the reactor oversight process,
22 TVA does not believe this issue impacted objectives of
23 either initiating events or mitigating the system's
24 cornerstone because AFW is operable and capable of
25 performing its intended safety function.

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1 NRC Inspection Manual 0612, Appendix E,
2 discusses, and I quote, failures to implement
3 requirements that have significant safety or impact,
4 and said that such failures should normally be
5 categorized as minor.

6 I will now turn over the discussion to Mr.
7 Lewis to discuss Apparent Violation No. 2.

8 MR. LEWIS: Thank you, Jim.

9 This is Dave Lewis from Pillsbury.

10 Apparent Violation 2 alleges that a change
11 made to 1-GO-1, Section 5.2.1 --

12 MR. O'BRIEN: Mr. Lewis, you're nearly
13 inaudible.

14 MR. LEWIS: Is this better?

15 MR. O'BRIEN: Yes, that's better, and your
16 camera is not on at the moment.

17 MR. LEWIS: Is my camera on now?

18 MR. O'BRIEN: I don't see it yet. I'm
19 waiting to see if it shows up, if it's a data delay,
20 an electron delay issue.

21 MR. GIFFORD: It appears as though the
22 camera may have one of the safety screens because it's
23 just coming across black.

24 MR. LEWIS: Oh, it's this one.

25 MR. O'BRIEN: There we go. Now you're

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1 present. Thank you, sir.

2 MR. LEWIS: Excuse me for not looking at
3 the camera.

4 MR. O'BRIEN: That's okay. I understand
5 completely. If you can move the microphone a little
6 closer to your mouth, that will help us, too.

7 MR. LEWIS: I'll just and speak loudly.

8 MR. O'BRIEN: Thank you, sir. I
9 appreciate it. Pardon the interruption.

10 MR. LEWIS: And excuse the glitch.

11 Apparent Violation 2 alleges that a change
12 made to 1-GO-1, Section 5.2.1, Step 8, on November
13 9th, 2015 was improperly classified as a minor
14 procedural change. It should not have been because it
15 altered the technical intent, changed the sequence of
16 steps by allowing the operators to draw a bubble
17 without having to wait for RCS temperature to be --

18 MR. O'BRIEN: I apologize to interrupt you
19 again, but, Mr. Lewis, we can barely hear you.

20 MR. GIFFORD: This may be a setting on the
21 microphone itself. Do you say a gray audio button
22 under the attendee list?

23 MR. LEWIS: Yes.

24 MR. GIFFORD: Can you please select that
25 audio button? And you'll see a popup window that

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1 says, Audio Conference.

2 MR. LEWIS: Yes.

3 MR. GIFFORD: There's a bar where you can
4 manually increase the audio for your microphone.

5 MR. LEWIS: It's already maximized.

6 MR. GIFFORD: It's already maximized?
7 Okay.

8 MR. LEWIS: Excuse me a second.

9 PARTICIPANT: Can everyone hear this
10 better?

11 MS. ROELOFS: We can from the TVA, Tricia.

12 MR. O'BRIEN: Yes, we can hear it much
13 better, yes.

14 (Pause.)

15 No, I can't hear you at all.

16 MR. LEWIS: Can you hear me now?

17 MR. O'BRIEN: A little. Microphone closer
18 to your mouth would probably be helpful. I apologize.

19 MR. LEWIS: It's right next to it.

20 MR. O'BRIEN: There you go. You got it.

21 MR. LEWIS: Okay. I'll start over.

22 Apparent Violation 2 alleges that a change
23 made to 1-GO-1, Section 5.2.1, Step 8, on November
24 9th, 2015 was improperly classified as a minor
25 procedural change. It should not have been, as it

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1 altered the technical intent, changed the sequence of
2 steps by allowing the operator to draw a bubble
3 without having to wait for the RCS temperature to be
4 between 135 and 160 degrees Fahrenheit.

5 TVA acknowledges that the procedure change
6 as it was apparently interpreted and applied in the
7 control room to allow bypassing the temperature
8 requirement was not a minor editorial change. TVA,
9 therefore, does not contest a non-deliberate
10 violation. NPG-SPP-01.2.1, Rev. 2, and, hence,
11 10 CFR Part 50, Appendix B, Criterion 5, occurred.
12 TVA denies the violation occurred as a result of
13 deliberate misconduct.

14 The procedure at issue here should be on
15 your screen. Revision 4 to 1-GO-1, Step 5.2.1, Step
16 8, related to how operators prepare to draw a bubble
17 during heatup.

18 In Revision 3, on the screen, Step 8 used
19 the action verb raise. The action verb raise means to
20 cause a parameter to be higher in magnitude. In
21 Revision 4, on the screen now, that action word was
22 changed to initiate. The action verb initiate means
23 to commence or begin, and it is generally used to
24 cause the start or beginning of an effort which could
25 not be completed in a short period of time.

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1 The intent of Step 8 is to ensure that
2 operators adequately raise RCS temperature before
3 attempting to draw a bubble, so that a maximum
4 temperature differential, delta-T, between the RCS and
5 the pressurizer is not exceeded. The note in Step 8
6 makes this clear.

7 And furtherance of the note, Step 8.3,
8 which was not changed, directs operators how to
9 proceed with drawing the bubble based on RCS
10 temperature. If the RCS temperature has reached
11 between 135 and 160 degrees Fahrenheit, then operators
12 can proceed Step 9 and use decay heat to draw the
13 bubble. If RCS temperature cannot be raised to 135
14 degrees Fahrenheit using decay heat, operators must
15 proceed to Step 10, draw the bubble using heat from
16 the reactor coolant pump.

17 Later in the evening on November 9th,
18 after the procedure change was made, control operators
19 drew the bubble on decay heat without waiting for the
20 RCS temperature to reach 135 degrees Fahrenheit.
21 Thus, it appears the operators interpreted the
22 procedure to allow this. As apparently so interpreted
23 and applied, the procedure change would not have been
24 minor, as it altered the sequence of steps.
25 Consequently, TVA accepts the violation.

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1 Apparent Violation 2 further alleges that
2 two TVA employees, Mr. (b)(7)(C)
3 (b)(7)(C), and Mr. Bill Sprinkle, Manager of the Nuclear
4 Plant ad Chief of Operations, deliberately violated
5 NPG-SPP-01.2.1 in processing this procedure change as
6 minor. TVA denies that Mr. (b)(7)(C) or Mr. Sprinkle
7 deliberately violated this procedure.

8 Let me, first, discuss the allegations
9 pertaining to Mr. (b)(7)(C). You've heard Mr.
10 (b)(7)(C) explanation why he considered the
11 procedure change to be a minor change, one that did
12 not alter the requirement to heat the RCS to 135
13 degrees Fahrenheit or drawing the bubble using decay
14 heat.

15 While the action verb at the beginning of
16 Step 8 was changed to initiate, that step still
17 required initiation of the heatup between 135 and 160
18 degrees to occur, quote, by performing the following:,
19 close quote, referring to Steps 8.1, 8.2, 8.3. Thus,
20 completion of these steps remained mandatory.

21 Step 8.3 stated that if RCS temperature
22 cannot be raised to greater than 135, the operators
23 were required to n/a Step 5.2.1.9, the step allowing
24 the bubble to be drawn using decay heat; proceed to
25 Step 5.2.1.10, requiring the use of the reactor

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1 coolant pump to up the RCS temperature.

2 As Mr. (b)(7)(C) explained, he did not
3 understand the procedure change was intended to bypass
4 the temperature limitation. The procedure change that
5 he made did not allow it based on his reading. TVA
6 finds Mr. (b)(7)(C) explanation to be credible.
7 Indeed, Mr. (b)(7)(C) interpretation of the
8 procedure as changed is, in TVA's estimation, the way
9 it should have been interpreted and applied. In TVA's
10 estimation, the gate in Step 8.3 of the procedure
11 still requires the RCS temperature to be increased to
12 (audio interference) before drawing the bubble in
13 decay heat for Step 9.

14 Further, Mr. (b)(7)(C) explained that he
15 understood the action verb was changed to allow the
16 heatup to begin. This is consistent with a
17 contemporaneous description of the procedure in the
18 revision log, which states, quote, reworded step to
19 allow for RCS heatup. And it's consistent with the
20 explanation that Mr. (b)(7)(C) provided to the TVA
21 OIG after he had the opportunity to review the change.
22 Accordingly, we do not believe that Mr. (b)(7)(C)
23 classified the procedure change as minor, knowing that
24 to do so would constitute a violation of the
25 procedure.

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1 Now let me turn to Mr. --

2 MS. SIMON: Excuse me, Mr. Lewis. I'm
3 sorry. This is Marcia Simon. I'm still having a lot
4 of trouble hearing you. So, I'm going to ask if you
5 guys could try to look one more time at the microphone
6 issue. I'm sorry.

7 MR. GIFFORD: It appears that the
8 microphone for that headset is very directionally-
9 dependent. Is it possible to position the microphone
10 so that it is right up against the speaker's cheek or
11 closer?

12 PARTICIPANT: Okay. Can you hear better
13 now?

14 MR. GIFFORD: That is very loud, yes.

15 PARTICIPANT: Okay. All right. And it's
16 still working even after I close the window.

17 MR. LEWIS: Let me now turn to Mr.
18 Sprinkle. And let me know if you can hear me.

19 MR. GIFFORD: That audio is much better.

20 MR. LEWIS: Thank you. Marcia, my setting
21 was not causing the problem.

22 I'll turn to Mr. Sprinkle now. Mr.
23 Sprinkle acknowledges that, with hindsight, he made a
24 mistake in considering the procedure change to be a
25 minor change. He agrees with the NRC's determination

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1 that the change did not meet the criteria for a minor
2 change because it altered the sequence of steps by
3 permitting operators to draw a bubble at less than
4 135. And to the best of his recollection, he viewed
5 the change as one that would not alter the intent of
6 the procedure, which was to prevent the temperature
7 differential between the RCS and pressurizer from
8 exceeding a maximum delta-T on which the design had
9 been based. To the best of his recollection, he
10 simply failed to recognize that maintaining the intent
11 of the procedural step was not a sufficient basis to
12 categorize it as minor if it altered the technical
13 sequence of the steps.

14 In sum, it appears to TVA that Mr.
15 Sprinkle simply made a mistake, and as already
16 discussed, making a mistake does not constitute
17 deliberate misconduct. I should add that Mr. Sprinkle
18 clearly finds it difficult to recall the circumstances
19 of the procedure change that occurred almost five
20 years ago, but his state of memory is not a basis to
21 impute deliberate misconduct. Rather, the amount of
22 time that's elapsed between the change on November
23 9th, 2015 and the NRC's notice of the apparent
24 violation cuts against the finding of deliberate
25 misconduct, as such a finding should be based on

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1 evidence, not speculation.

2 In conclusion, TVA agrees that the
3 procedure change as it was apparently interpreted and
4 applied in the control room to allow bypassing the
5 temperature requirement was not a minor editorial
6 change, and therefore, accepts the violation on this
7 basis. TVA disputes only that Mr. (b)(7)(C) and Mr.
8 Sprinkle acted deliberately. The NRC has not offered
9 any evidence that either Mr. (b)(7)(C) or Mr.
10 Sprinkle knowingly and deliberately misclassified the
11 procedure.

12 Because the operators did draw the bubble
13 using Step 9, presumably, interpreting the procedure
14 change to alter the sequence of procedural steps, TVA
15 has taken steps to address the violation.

16 Mr. Barstow will now speak to those
17 correction actions and the significance of the
18 violation.

19 MR. BARSTOW: Thank you, Mr. Lewis.

20 TVA acknowledges that a performance
21 deficiency violation occurred on November 9th, 2015
22 when the procedure changed to 1-GO-1, was processed as
23 a minor or editorial change. The procedure change did
24 not meet the NPG-SPP-01.2.2 criteria for a minor or
25 editorial change because it unintentionally impacted

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1 the procedure's intent and the sequence of the
2 procedure steps prior to drawing a bubble in the
3 pressurizer.

4 As you just heard from Mr. Lewis, TVA's
5 assessment is that Mr. (b)(7)(C) reasonably concluded
6 the procedure change was minor because he thought the
7 subsequent steps would prevent operators from doing
8 anything that was not already allowed by the
9 procedure.

10 It is also TVA's position that Mr.
11 Sprinkle could reasonably have believed that the
12 procedure change did not alter the intent of 1-GO-1
13 based on maintaining the 320-degree Fahrenheit
14 differential temperature design limit for the reactor
15 coolant system and pressurizer temperatures. As Mr.
16 Sprinkle has acknowledged, he made a mistake by
17 failing to consider whether the change would impact
18 the sequence of procedural steps.

19 Absent any substantive information to the
20 contrary, TVA concluded that neither Mr. (b)(7)(C)
21 nor Mr. Sprinkle intentionally violated the procedure
22 change process. This error was of very low safety
23 significance. Proceeding to draw the pressurizer
24 bubble at less than 135 degrees did not result in
25 exceeding the 320-degree delta-T design limit between

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1 the pressurizer and the reactor coolant system.

2 On November 9th, 2015, when the
3 pressurizer heater was energized and temperature was
4 raised to approximately 340 degrees, according to the
5 control room log, the RCS temperature was
6 approximately 105 degrees Fahrenheit, based on
7 dataware. Therefore, the maximum delta-T design limit
8 was met and a margin of about 85 degrees Fahrenheit
9 remained.

10 Remaining within the design limit was not
11 simply by chance. 1-GO-1 directs operators to perform
12 surveillance 1-SI-68-44, which is the RCS temperature
13 pressure limits and pressure temperature limits, which
14 monitors the delta-T to ensure the design limit is
15 met.

16 TVA has taken extensive corrective actions
17 at Watts Bar to address issues concerning the
18 procedure used and adherence that existed in 2015. We
19 also recognize that this example highlights specific
20 issues with the procedure change process. Therefore,
21 any violation issued will be captured in TVA's
22 Corrective Action Program, so that further corrective
23 actions can be considered for the procedure change
24 process.

25 In terms of the ROP, TVA agrees that there

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1 was a performance deficiency and a violation of 10 CFR
2 50, Appendix B, Criterion 5. Notwithstanding the
3 change to 1-GO-1 on November 9th, 2015, the Watts Bar
4 procedure ensured that the design limit for a delta-T
5 between the pressurizer and the RCS system was
6 monitored and met. There was no impact on the
7 initiating events or barrier integrity cornerstones
8 because the design limit delta-T was not challenged.
9 Therefore, TVA considers this procedure change process
10 violation had very low safety significance.

11 I will now turn the presentation back over
12 to Mr. Lewis for a discussion of Apparent Violation
13 No. 3.

14 MR. LEWIS: Thank you, Jim.

15 In Apparent Violation 3, the NRC alleges
16 that, on November 11th, 2015, the shift manager
17 approved Watts Bar Unit 1 going from Mode 5 to Mode 4
18 without first ensuring that all restraints had been
19 resolved, in violation of TVA's General Operating
20 Instruction 1-GO-1. TVA acknowledges that a violation
21 of 1-GO-1 occurred by proceeding with a heatup to Mode
22 4, despite a clearance being in place that should have
23 restricted the plant to Mode 5 and 6. But TVA denies
24 the violation was the result of deliberate misconduct.

25 TVA examined this noncompliance as part of

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1 its root cause analysis and looked into the events on
2 November 11th, 2015. The root cause analysis found
3 that there was a mode restriction interference, but
4 because the restriction was not communicated back to
5 the work order that necessitated the clearance, the
6 operators were not apprised of the restriction, and it
7 was not included on the OCC's outage issue action
8 tracking list. This error cannot be attributed to Mr.
9 Johnson, who the NRC alleges engaged in deliberate
10 misconduct in connection with this Apparent Violation.

11 Further, as part of the procedure moving
12 from Mode 5 to Mode 4, managers in various
13 disciplines, including the (b)(7)(C), were
14 required to provide signed confirmation that work
15 activities were either complete or would not prohibit
16 entry or impact continued operation in Mode 4. The
17 NRC does not allege that this confirmation did not
18 occur. Rather, Apparent Violation 4 alleges that Mr.
19 Johnson was told by the (b)(7)(C) that
20 the previous night shift did not move to Mode 4
21 because normal letdown was out of service due to the
22 valve repair.

23 The (b)(7)(C) statement does
24 not imply that a mode restraint existed, but, rather,
25 only that the night shift wanted normal letdown feed

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1 service before proceeding with the heatup. This is a
2 critical point, as Mr. Johnson is alleged to have
3 deliberately ignored a mode restraint in proceeding,
4 not, that he disregarded the night shift's preference
5 to wait for normal letdown to be returned to service
6 before proceeding with the heatup.

7 As I will explain, the evidence indicates
8 that Mr. Johnson was not aware of mode restraint, and
9 therefore, reasonably understood there were no
10 restrictions precluding entry to Mode 4. Before I
11 discuss the specifics of Mr. Johnson's actions on
12 November 11th, 2015, I'd like to provide a bit more
13 background on the events that led to the Apparent
14 Violation, according to TVA's root cause analysis.

15 On November 9th, 2015, minor maintenance
16 on a CVCS letdown isolation valve was being performed
17 when an active leak was identified on the packing leak
18 offline, requiring a weld repair. On the morning of
19 November 10th, a child work order was created for the
20 weld repair and contained no mode flow restraint. The
21 child work order was added to the OCC's emergent
22 issues list, but the repair was listed as impacting
23 Mode 2.

24 On the evening of November 10th, the
25 Operations Department developed the clearance needed

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1 to perform the work order. During the development of
2 the clearance, it was identified that the work would
3 be performed with single valve isolation, and the
4 note, therefore, was added to the clearance details
5 indicating the clearance was intended for use in Mode
6 5 and 6. However, there was no process in place
7 driving the transfer of this information back to the
8 work order.

9 In addition, the OCC's outage issue and
10 action tracking list was not updated to reflect the
11 new Mode 5 and 6 restriction and the impact of this
12 for the valve remained Mode 2. The absence of this
13 information in the work order and out of the OCC's
14 outage issue and action tracking list prevented the
15 control room from identifying the Mode 5 and 6
16 restriction prior to entering Mode 4.

17 Similarly, the STORM report, which stands
18 for Shift Turnover Outage Review Meeting, the STORM
19 report from 0600 on November 11th gave no indication
20 that the valve repair needed to occur before the plant
21 entered Mode 2.

22 I will first address the alleged violation
23 of 1-GO-1, Section 5.2, Step 17.1. Step 17.1 required
24 the operators to initial that they had ensured that
25 all clearances that would prohibit entry into Mode 4

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1 had been restored as required. TVA acknowledges that
2 the control room operators should have been precluded
3 from completing Step 17.1 because the clearance was in
4 place with a Mode 5 and 6 restriction. However, the
5 evidence indicates the control room operators did not
6 know that they were precluded from concluding Step
7 17.1.

8 As shown here, the STORM report on the
9 evening of November 10th tracked the valve's repair on
10 the outage issue and action tracking list as having a
11 Mode 2 impact. Because of the weakness in the process
12 for controlling emergent work, the note that was later
13 added to the clearance details for this work was not
14 carried over to the work order, and the OCC's outage
15 issue and action tracking list was not updated to
16 reflect the Mode 5 and 6 restriction that had been
17 added in the clearance details.

18 Around the time that the day shift was
19 coming on duty, the STORM report on the morning of
20 November 11th at 0600 stated Mode 4 would be reached
21 at 0600 and the weld repair would be completed at
22 0700. Further, TVA's root cause analysis found there
23 was a breakdown in communications.

24 Based on all of this, it appeared the
25 control room operators and Mr. Johnson were not aware

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1 of the Mode 5 and 6 restriction in the clearance
2 details. Consequently, the violation of 1-GO-1,
3 Section 5.3, Step 17.1, appears unintentional.

4 The NRC also asserts that Mr. Johnson
5 violated 1-GO-1 when he initiated, in Section 5.3,
6 Step 22, indicating that all restraints to Mode 4
7 entry had been resolved, when, in fact, they had not
8 been. This Step 22 requires the shift manager to
9 initial that Appendix B has been completed. In order
10 to complete Appendix B, numerous steps need to be
11 performed and signed off by various personnel.

12 As shown on the screen, Step 3 of Appendix
13 B stands to ensure that Checklist 1 is complete for
14 entry into Mode 4. Apparent Violation 3 seems to be
15 relying on the Checklist listing the CVCS-charging and
16 letdown system as normally operable as the basis for
17 Mr. Johnson violating the procedure. However, this
18 Checklist does not create an operability requirement
19 or a mode restraint. As you can see on the screen,
20 the Checklist only says the system is normally
21 operable. If the system had to be operable in order
22 to proceed, the term normally would not have been
23 used. Rather, the Checklist would have said the
24 system is required to be operable. Note that the
25 CVCS-charging and letdown system falls under Section

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1 B of Checklist 1, and I'll come back for that
2 momentarily.

3 Further, as you can see on your screen,
4 the Checklist allowed the system alignment checklist
5 for the CVCS-charging and letdown system to be n/a'd,
6 and even further, as shown on your screen, Section C
7 of the Checklist lists those systems that must be
8 available prior to Mode 4. The CVCS-charging and
9 letdown system is not listed in Section C. As I
10 pointed out earlier, it's in Section B.

11 Therefore, TVA denies that it violated
12 Step 3 of Appendix B. TVA concedes that a violation
13 of Step 21.1 of Appendix B, and hence, 1-GO-1, Section
14 5.3.22, occurred by failing to ensure that the work
15 order would not prohibit entry into Mode 4. And as
16 previously discussed, this violation resulted from the
17 clearance details not being communicated or tracked
18 properly, and not from any deliberate misconduct by
19 Mr. Johnson or the control room operators.

20 I'll now hand the presentation over back
21 to Mr. Barstow.

22 MR. BARSTOW: Thank you, Mr. Lewis.

23 TVA acknowledges that a performance
24 deficiency and procedure violation occurred when Watts
25 Bar Unit 1 transitioned to Mode 4 with an open

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1 clearance that should have limited the plant to Mode
2 5 or 6. While TVA agrees that certain steps in 1-GO-1
3 outlined by Mr. Lewis were not met, TVA disagrees with
4 the NRC's analysis that 1-GO-1 was not properly
5 followed when the shift manager initialed that
6 Appendix C to the procedure had been completed.

7 As discussed, TVA denies that Mr.
8 Johnson's decision to change modes was made knowing
9 that a violation of 1-GO-1 would occur. The failure
10 to track the mode restriction occurred due to a work
11 control process inadequacy and was missed by the
12 organization. It was not the result of a deliberate
13 act by Mr. Johnson or anyone else.

14 This failure had no reactor or industrial
15 safety significance. According to (b)(7)(C)
16 (b)(7)(C), the mode restriction in the clearance
17 note was written to address the best time to perform
18 the work.

19 The CVCS filed maintenance boundary was
20 acceptable given that the manual isolation valve,
21 1-ISB-68-580, and air-operated valve, 1-FCZ-62-69,
22 upstream were isolated for the physical boundaries.
23 These two valves in series satisfy the special
24 requirements for mechanical batteries for a fluid that
25 is greater than 200 degrees Fahrenheit or 500 PSIG.

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1 Additionally, drain valve 1-CRB-62-1235 was tagged
2 open for then accumulation of energy if there was any
3 leak by the two valves in series. While not from a
4 required boundary, the clearance notes, for RCS
5 temperature to be less than 200 degrees Fahrenheit was
6 a third boundary in a series to ensure worker
7 protection.

8 As corrective action for this issue, TVA
9 revised the Watts Bar Nuclear Operations Directive
10 Manual relative to clearance development and
11 placement. New requirements were added for clearances
12 that are not directly controlled by a clearance tag,
13 such as clearances relying on pressure level and
14 maintaining pressure. Now the required mode or
15 condition will be documented in a narrative log, and
16 operations will ensure that the work order is updated
17 appropriately.

18 In terms of the ROP, TVA agrees that there
19 was a performance deficiency and a violation of
20 1-GO-1. This issue is of very low safety significance
21 because it did not impact the initiating events,
22 mitigating systems, or barrier integrity cornerstone.
23 Specifically, this issue did not increase the
24 likelihood of or cause an initiating event and it did
25 not negatively impact any of the key shutdown safety

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1 functions of decay heat removal, inventory control, or
2 containment needed in Modes 4 or 5.

3 I will now ask Mr. Lewis to discuss
4 Apparent Violation No. 5.

5 MR. LEWIS: Thank you, Jim.

6 TVA acknowledges that a violation of
7 10 CFR Part 50, Appendix B, Criterion 17, occurred on
8 November 11th, 2015, due to TVA's failure to maintain
9 appropriate operations logs. TVA has previously
10 acknowledged that the specifics of the RHR evolution
11 on November 11th were not maintained in the operations
12 log. TVA also identified log-keeping as one of the
13 operator fundamental weaknesses associated with RHR
14 evolution and stated that its control room operators
15 needed to improve their log-keeping.

16 Following identification of the
17 deficiencies in operating logs associated with the RHR
18 evolution, TVA initiated Condition Report 1116732,
19 Operator Logs, in December of 2015. A Condition
20 Report identified that several trend CRs had been
21 submitted concerning the accuracy and thoroughness of
22 station logs. And the Condition Report was developed
23 to ensure that logs meet OPDP-1 and that operations
24 expectations are met going forward.

25 Additionally, TVA conducted an apparent

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1 cause analysis to evaluate and identify issues
2 associated with reactor heatup on November 11th, 2015.
3 The apparent cause analysis acknowledged that the
4 specifics of the RHR evolution and associated
5 decisionmaking were inadequately documented in the
6 operations logs.

7 One of the contributing causes in the
8 apparent cause analysis is, quote, Governance and
9 oversight of operations performance was not effective
10 in addressing reoccurring deficiencies in, skipping
11 over, log-keeping quality. TVA's root cause analysis,
12 completed in February 2016, also identified the log-
13 keeping deficiencies and identified a failure to
14 document critical thinking as one of the weaknesses in
15 operator fundamentals.

16 A few months after the root cause analysis
17 was issued, the NRC, on April 7th, 2016, issued a
18 Severity Level IV, non-cited violation, for TVA's
19 failure to maintain sufficient operations log
20 regarding the RHR evolution. TVA did not contest the
21 NRC's non-cited violation. However, TVA denies that
22 the violation occurred as a result of deliberate
23 misconduct. TVA has been unable to identify any
24 information that would lead the NRC to revisit the
25 non-cited violation and find that operators

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1 intentionally failed to log events from November 11th,
2 2015.

3 The main control room operators who were
4 on duty that day and who have been interviewed
5 regarding log-keeping have explained that they should
6 have logged the events more thoroughly, but were
7 occupied with other tasks. In an email message a
8 month following the RHR evolution, Mr. (b)(7)(C), the
9 event supervisor, explained that they certainly could
10 have logged more and that the crew just had too many
11 things going on.

12 The (b)(7)(C)
13 (b)(7)(C), explained during his December 2015 NRC
14 interview that, quote, I think it's related to the
15 amount of time we had to note the log entry. Skipping
16 down, With a startup like that where everything is
17 fluid, and then, a lot of things just get truncated
18 with that, things get missed. Mr. (b)(7)(C) also
19 explained during his PEC that, looking back, the
20 events of November 11th, 2015 should have been better
21 documented by the crew.

22 Mr. Johnson acknowledged in his December
23 2015 NRC interview that the note logs were not up to
24 standard. He said, The log-keeping for that day, I
25 look back at it. It was less than adequate and it's

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1 something that needs to be addressed, that the log-
2 keeping that day was not up to standards.

3 However, Mr. Johnson also explained that
4 the failure to properly log the events of the day was
5 the result of being busy. He said during that
6 interview, I was relieved that we hadn't let the plant
7 get into a bad situation. At the end, we were
8 hustling a lot to get the normal letdown system back
9 in service where we could get back to a normal plant
10 configuration, that I didn't, I didn't ensure the CRs
11 were written and the logs were adequate.

12 When asked by the resident inspector, the
13 senior resident inspector, whether the failure to log
14 was intentional or an effort to hide what had
15 happened, Mr. Johnson was emphatic that it was not.
16 Mr. Nadel asked Mr. Johnson, Is anyone directing you
17 to omit information in the log? Mr. Johnson
18 responded, Absolutely not, no. Mr. Johnson followed
19 up with a question, Did you guys ever think about the
20 NRC? It was a federal holiday and no one is here from
21 the NRC and kind of a skeleton crew as far as a
22 regulator, and that maybe not putting the entire story
23 in the log somehow just kind of pushed it underneath
24 the table? Mr. Johnson responded, Absolutely not.

25 Similarly, Mr. Johnson's January 9th, 2016

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1 TVA OIG interview states that Mr. Johnson believed the
2 event was not logged, quote, because it was, oh, so
3 hectic that day -- close quote -- and not, quote, to
4 try and hide what happened. Close quote.

5 More recently, in his written submission
6 to the NRC in response to Apparent Violation 5, Mr.
7 Johnson specifically asserted that the failure to
8 include the expected level of detail in the operations
9 log was a mistake due to the level of activity in the
10 main control room and not an intentional omission.

11 While a high level of outage activity is
12 no excuse for failing to meet the log-keeping
13 requirements, a failure to perform adequately in the
14 moment is not equivalent to a person intending to not
15 meet the requirements. TVA has not seen any statement
16 by any operator or any other evidence that would lead
17 it to conclude that the operators intended to violate
18 log-keeping requirements. TVA has also seen no
19 indication that any operator thought about logging the
20 pressurized level exclusion and, then, decided not to
21 do so.

22 In sum, TVA's investigation found no
23 support for the NRC's assertion that Mr. Johnson
24 deliberately chose to violate NRC regulations, TVA's
25 procedures, or his senior reactor operator license.

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1 Rather, TVA concludes that the failures to maintain
2 sufficient logs on November 11th, 2015 was
3 unintentional and consistent with TVA-identified
4 performance deficiencies in 2015.

5 I will now hand over our presentation to
6 Mr. Barstow.

7 MR. BARSTOW: Thank you, Mr. Lewis.

8 TVA acknowledges that a performance
9 deficiency and procedure violation occurred when Watts
10 Bar operators failed to maintain an accurate and
11 appropriate log. This issue was previously documented
12 by the NRC as a non-cited, Severity Level IV
13 violation. TVA did not contest that violation in 2016
14 and still believes that the issue was appropriately
15 characterized at that time.

16 As discussed, Mr. Johnson has acknowledged
17 deficiencies in log-keeping relative to the RHR event.
18 More broadly, insufficient log-keeping was a known
19 performance issue in the 2015-to-2016 timeframe, as
20 noted in the Condition Reports, quality assurance
21 escalations, and causal evaluations. However, TVA is
22 not aware of any evidence that the failure to properly
23 log the events were the result of a conscious
24 decision. Those on duty that day have said that they
25 were very busy and forgot to update the logs.

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1 For these reasons, TVA does not agree with
2 the NRC's determination of deliberate misconduct
3 relative to log-keeping. This issue should not impact
4 reactor safety. This violation was previously
5 assessed by the NRC using traditional enforcement
6 because it impacted the NRC's ability to carry out its
7 regulatory function.

8 NRC found the failure to maintain accurate
9 logs was more than minor and was consistent with an
10 enforcement policy example for a Significance Level IV
11 violation. This issue has been entered into the
12 Corrective Action Program and Condition Report 1127691
13 and the NRC treated this issue as a non-cited
14 violation, consistent with Section 2.3.2(a) of the
15 enforcement policy. TVA considered this
16 characterization appropriate in 2016 and no new
17 information has been identified that would cause TVA
18 to change this view.

19 Further, a number of corrective actions
20 have been taken to address log-keeping inadequacies at
21 Watts Bar since December 2015. These include a focus
22 on log reviews in January 2016 with Condition Reports
23 initiated, where applicable, and effectiveness review
24 for the negative trend Condition Report, monitoring
25 and metrics with weekly trending on independent log

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1 reviews, and operations training that was used as a
2 case study of the RHR event that included a discussion
3 of insufficient operating logs.

4 Log-keeping remains a focus for the
5 Operations Department at Watts Bar, and at the crew
6 level, each shift manager monitors their crew's
7 performance. When they identify gaps, the shift
8 manager provides coaching, initiates Condition
9 Reports, or initiates discretionary crew recess,
10 depending on the significance of the issue. When
11 appropriate, actions resulting from this focus on log-
12 keeping can be seen in a crew excellence plan or an
13 individual operator excellence plan. Additionally,
14 log-keeping is something that we monitor and part of
15 the Operations Department performance assessments.

16 TVA continues to believe the
17 characterization of this issue as a non-cited
18 violation in 2015 was appropriate, based on our review
19 of all available information and interviews with the
20 individuals who were directly involved.

21 Dave Lewis will now discuss Apparent
22 Violation No. 6.

23 MR. LEWIS: Thank you, Jim.

24 TVA acknowledges that the main control
25 room operators violated Watts Bar procedures and,

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1 hence, 10 CFR Part 50, Appendix B, Criterion 5, when
2 they reestablished RHR letdown without first starting
3 an RHR pump. In fact, as the NRC is aware, on April
4 7th, 2016, the NRC issued a green non-cited violation
5 for the failure to follow an approved procedure when
6 we were restoring RHR letdown on November 11th, 2015.
7 And TVA did not contest the violation. But TVA denies
8 the violation was the result of deliberate misconduct.

9 Based on Mr. Johnson's prior statements,
10 it appears he believed he was not within the RHR
11 procedure, but was, rather, taking prudent operator
12 actions to restore control pressurizer level. Mr.
13 Johnson has explained that the goal of reestablishing
14 RHR letdown was to reduce pressurizer level, not to
15 put the RHR system in service for cooling.
16 Specifically, Mr. Johnson did not perceive a need to
17 put RHR back in service, as the main control room
18 operators were only establishing letdown rather than
19 restarting cooling.

20 In this regard, a table provided to the
21 NRC resident inspector, Mr. Nadel, on December 17th,
22 2015, which was identifying the status of responses to
23 his questions, stated, In a 12/16/15 meeting with the
24 resident inspector, the shift manager stated that he
25 was not in a procedure when he initiated RHR letdown,

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1 but leveraged his training and integrated plant
2 understanding to place the plant in the safe condition
3 via leveraging/placing RHR letdown in service.

4 Additionally, during his December 18th,
5 2015 interview with the NRC, Mr. Johnson stated,
6 Prudent operator actions is what we were doing. When
7 asked during his December 18th, 2015 interview whether
8 Mr. Johnson, quote, feels that the steps that he took
9 were within his authority, based on the training that
10 he received over the years, Mr. Johnson said,
11 Absolutely. He further explained that the steps that
12 the main control room took to control the pressurizer
13 level were prudent operator action to control the
14 plant in a situation that wasn't entirely expected.

15 Mr. Johnson evidently believed that he was
16 acting in response to an emergent situation and that
17 he could use prudent operator actions to control that
18 situation. As a result, Mr. Johnson appears to have
19 had a good-faith belief that he was authorized to act
20 outside of the RHR procedure.

21 However, TVA does not believe that Mr.
22 Johnson was correct in his belief that he could
23 disregard TVA Procedure 1-SOI-74.01, which is the RHR
24 procedure. Instead, at a minimum, Mr. Johnson should
25 have n/a'd steps if they were not applicable.

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1 Pursuant to OPDP-1, Section 5.1(h), Mr.
2 Johnson, as the shift manager, was empowered to find
3 that starting the RHR pump was not applicable in the
4 current operating condition, and therefore,
5 1-SOI-74.01, Section 5.8.2, Step 18, directing the
6 start of the RHR pump did not need to be followed.
7 Section 5.1(h) (3) of OPDP-1 states, Follow guidance in
8 NPG-SPP-01.2 if a portion of a procedure is used or
9 other reasons exist for n/a of non-conditional steps.
10 Approval required by the section manager or designee
11 shall be performed by the shift manager.

12 Section 18 -- I beg your pardon -- Step 18
13 was a non-conditional step because it did not use the
14 language of if or when. Thus, Mr. Johnson had the
15 authority to n/a Step 18 directing the start of the
16 RHR pump. If Mr. Johnson had n/a'd Step 18, then this
17 particular Apparent Violation would not have occurred.

18 Given that Mr. Johnson could have complied
19 with the procedure by n/a'ing Step 18 without too much
20 difficulty, it's hard to see that his actions were
21 deliberate misconduct. Rather, the control room
22 operators were faced with an unexpected situation, and
23 TVA cannot conclude that either Mr. Johnson or the
24 control room operators intentionally violated the
25 procedure.

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1 TVA respectfully submits that the failure
2 and informality relative to the RHR procedure used and
3 adherence appears symptomatic of the documented
4 weaknesses in operator fundamentals that existed at
5 Watts Bar in 2015 and 2015 rather than deliberate
6 misconduct.

7 I'll now turn our presentation back to Mr.
8 Barstow.

9 MR. BARSTOW: Thank you, Mr. Lewis.

10 TVA acknowledges that a performance
11 deficiency and procedure violation occurred when
12 operators reestablished RHR letdown without starting
13 the RHR pump. As you just heard, TVA does not believe
14 that the failure to follow the RHR procedure was a
15 deliberate violation by any individual. The operator
16 took action to restore RHR letdown consistent with the
17 general RHR operating procedure and made a decision to
18 not start the RHR pump based on the plant condition
19 and having no constructive reason to start the pump.
20 The intended reduction in pressurizer level was
21 achieved without the need to start an RHR pump. The
22 operators were not trying to reestablish RHR shutdown
23 cooling. They were reestablishing RHR letdown.

24 The safety significance of this issue was
25 assessed in 2016 when the NRC issued a green, non-

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1 cited violation for the failure to follow procedures.
2 At that time, the inspector determined that this
3 finding was of very low safety significance because
4 the way that the system was placed in service did not
5 cause any safety-related components to become
6 inoperable nor did it represent an actual loss of
7 function of one or more (audio interference) of
8 equipment designated as high safety significant, in
9 accordance with the TVA's Maintenance Rule Program.

10 TVA has not identified any new information
11 associated with this finding that it believes should
12 change the original characterization of the safety
13 significance. We (audio interference) because of the
14 alleged deliberate misconduct. However, TVA's review
15 of the historical documents and statements, as well as
16 new interviews with Mr. Johnson, did not identify a
17 basis to conclude that Mr. Johnson's actions relative
18 to procedure use would rise to the level of deliberate
19 misconduct.

20 It is also important to note that a number
21 of corrective actions have been taken at Watts Bar
22 since 2015 to improve procedure use and adherence.
23 Actions have also been taken to increase
24 accountability for management responsible to recognize
25 deficiencies in operator fundamentals and to reinforce

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1 high standards and expectations for performance. You
2 heard Tony Williams talk about some of these during
3 his remarks.

4 Today, the work environment and the level
5 of performance and operations have improved at Watts
6 Bar. TVA is continuing to sustain this improvement in
7 both areas, and we believe this is reflected in the
8 NRC inspection record and INPO evaluation. TVA
9 continues to believe that NRC's 2016 characterization
10 of this issue as a green, non-cited violation for
11 inadequate procedure adherence was appropriate. While
12 TVA identified a number of important organizational
13 and operational weaknesses associated with the RHR
14 event in 2015, no new information has been identified
15 that would indicate a different characterization of
16 this finding is warranted in 2020.

17 This concludes TVA's presentation of
18 Apparent Violations 1, 2, 3, 5, and 6.

19 MR. O'BRIEN: Thank you, Mr. Barstow. I
20 appreciate that.

21 As we had conversations last week with
22 your counsel, there was a strong potential we would
23 need to be fluid and flexible as things go forward.
24 So, I want to do a little on-the-fly planning, if
25 that's okay with you, Mr. Barstow.

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1 MS. ROELOFS: What was your question, Mr.
2 O'Brien? You cut off at the end of your question, Mr.
3 O'Brien.

4 MR. O'BRIEN: I'm sorry. So, I indicated
5 I wanted to do a little bit on-the-fly planning as we
6 go forward the rest of the day, if that was okay with
7 Mr. Barstow.

8 MR. BARSTOW: Yes, Mr. O'Brien, that's
9 fine.

10 MR. O'BRIEN: So, we are at 10:20 your
11 time, according to my clock here. The next thing
12 scheduled is a break for lunch, and then, caucus with
13 the NRC, with us coming back two hours later. So, if
14 it's okay with you, I think we might just take those
15 two hours and come back at 12:30 your time, if that's
16 acceptable to you. So, we'll do the caucus and you
17 guys can get a little bit of lunch probably a little
18 early, if that's helpful for you. And we'll come back
19 and reconvene at 12:30 at your time. Is that
20 acceptable?

21 MR. BARSTOW: Yes, that's acceptable.
22 Thank you.

23 MR. O'BRIEN: Okay.

24 MS. ROELOFS: Mr. O'Brien, can I ask if
25 our audio was a little bit better? We were trying to

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1 be a little bit more quiet in the room. Could you
2 hear us better?

3 MR. O'BRIEN: I could, but I'm not as
4 important as the court reporter. So, let's ask the
5 court reporter how that went.

6 Mr. Court Reporter, was that much better
7 for you in terms of the audio?

8 COURT REPORTER: Yes, Mr. Chair. Can you
9 hear me?

10 MR. O'BRIEN: Yes, I could. Thank you
11 very much.

12 COURT REPORTER: Yes, the audio was much
13 better.

14 MR. O'BRIEN: Thank you very much. Yes,
15 I found it to be very much better. Thank you.

16 So, with that, we'll go off the record and
17 come back at 12:30 your time to begin with questions
18 and answers.

19 Thank you, everybody.

20 (Whereupon, the above-entitled matter went
21 off the record at 10:20 a.m. and resumed at 12:40
22 p.m.)

23 MR. O'BRIEN: We have a few questions that
24 we'd like to ask, and -- where different panel members
25 are going to ask them as we go along.

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1 We have no questions relative to AV 1.
2 So, we're going to move on from that list. So, if one
3 comes up as a result of our other questions.

4 And we'll begin with AV 2, and Marcia?

5 MS. SIMON: Thank you, Ken. I just have
6 a couple of questions on AV 2, and forgive me if I'm
7 not looking into the camera. I have two screens, and
8 it's easier for me to just read off of the bigger
9 screen.

10 The first question has to do with, Mr.
11 Sprinkle made a -- the statement in the TVA OIG
12 interview summary states that Mr. Sprinkle recalled
13 that he was looking ahead in the schedule and noticed
14 a sticking point with temperature and the procedure
15 for drawing the bubble.

16 And it states further that Mr. Sprinkle
17 stated that he got system engineering involved, and
18 talked to operations to reach a resolution to make
19 sure it was not a hold up the schedule by redefining
20 or reclassifying a portion of the procedure.

21 So, Mr. Sprinkle's statement to the TVA
22 OIG, and the discussion in his written response on
23 page 2, acknowledges that there is an issue with
24 temperature and the procedure for drawing a bubble,
25 and indicates that the reason for changing the

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1 procedure was not to have to reach 135 degrees to draw
2 a bubble.

3 In contrast, Mr. (b)(7)(C) in his PEC,
4 stated that if he had understood the procedure change
5 to involve an intent to draw the bubble at a lower
6 temperature, he would not have classified the change
7 as minor/editorial.

8 So, I'd just like to ask, how do you
9 reconcile those two statements?

10 MS. ROELOFS: This is Tricia Roelofs from
11 TVA. We're going to refer back to our counsel to
12 answer, based on their results of their investigation
13 that you've heard on the record today.

14 MS. SIMON: Okay.

15 MR. LEWIS: We're not sure what Mr.
16 Sprinkle's understanding of the procedure was. It's
17 unclear, because he simply doesn't recall at this
18 point.

19 It is true that his OIG interview suggests
20 that he identified it. But, it's also possible it
21 came from the control room, and we've been unable,
22 because of lack of recollection, to really pin down
23 what was the sticking point -- you know, who raised
24 it.

25 And as a result, we do believe, though --

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1 basically, though, that there was a difference of
2 understanding between Mr. Sprinkle and Mr. (b)(7)(C).
3 That Mr. (b)(7)(C) simply understood that an operator
4 wanted an initiate verb, an action verb, to start the
5 heat up process, and that was the change he was
6 making. And with regard to his intent, that's how he
7 proceeded.

8 It's harder to gauge what Mr. Sprinkle
9 understood just because of the lack of recollection.
10 It is possible that he understood it to allow the
11 bubble to be drawn at a temperature below 135. The
12 delta-T discussion seems to suggest that.

13 And the best indication we have is that if
14 that was his understanding of intent, he simply made
15 a mistake in classifying it as a minor change. So, it
16 may have been a difference of understanding in what
17 that change was intended to accomplish.

18 I think it is pretty clear though that
19 what Mr. (b)(7)(C) understanding was, because he
20 wrote it the revision log, you know, to change the
21 procedure to allow heat up. Those aren't the exact
22 words, but that's the gist of it.

23 MS. SIMON: Okay. Yeah, because I was --
24 in Mr. (b)(7)(C) PEC, it seemed like the
25 information he got from Mr. Sprinkle when he met with

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1 him to get this assignment was basically the idea that
2 it was simply -- it was going to be a change from
3 raise to initiate.

4 And it's, you know, we're trying to
5 understand why Mr. Sprinkle would not have
6 communicated to him, you know, this analysis, and you
7 know, the sticking point and so forth.

8 But, I understand that -- I understand
9 what you're saying.

10 MR. LEWIS: Let me just add this. The one
11 thing that's not in that OIG interview is a clear
12 statement that Mr. Sprinkle understood the procedure
13 change was to allow the bubble to be drawn at 135.

14 It says that there's a sticking point.
15 And it doesn't identify what it was. I think that you
16 could reach the inference that you're making, but it
17 isn't clear.

18 MS. SIMON: So, I just want to clarify.
19 So, you're saying it -- are you saying it's possible
20 that the sticking point did not involve drawing the
21 bubble at a temperature less than 135?

22 MR. LEWIS: I think considerably the
23 sticking point could be some operator saying I need an
24 initiate verb. Or, that's a possibility. The other
25 possibility is that the operators couldn't get to 135

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1 and wanted to avoid it.

2 But, we've looked at the logs that, you
3 know, trying to ascertain, why couldn't the operators
4 get to 135? We can't see any acceptable reason why
5 they couldn't.

6 Even at a slow heat up rate, you know,
7 they could have gotten to 135. So, we don't
8 understand that part of the picture.

9 It's one of the reasons that we are
10 particularly interested in getting Mr. Redinger's
11 statements, because he was the unit supervisor. We
12 have some belief that he may have understood what the
13 issue was.

14 We've talked to other people in the
15 control room, and have had no luck understanding what
16 may have been the issue. So, we are very interested
17 in Mr. Redinger's views, and unfortunately, you know,
18 that has not been shared with us.

19 MS. SIMON: Okay.

20 MR. O'BRIEN: Is it possible, Mr. Lewis --
21 this is Mr. O'Brien -- is it possible, Mr. Lewis, that
22 since Mr. Sprinkle was the manager over the procedure
23 change process, and Mr. Sprinkle would have been
24 familiar with the difference between the words raise
25 and initiate as those are both defined terms for the

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1 utility, that he clearly understood what he was trying
2 to do?

3 That is, to change it so it was not a step
4 that had to be achieved, but instead a process that
5 had to be begun?

6 MR. LEWIS: It's certainly possible.

7 MR. O'BRIEN: Thank you.

8 MS. SIMON: Okay. My next question is,
9 again, in his written response, Mr. Sprinkle discussed
10 an analysis which appears to involve several technical
11 considerations.

12 On page 2 of his response he talks about,
13 you know, whether 135 degrees prevented a violation of
14 tech specs. He talked about a surveillance procedure.
15 He talked about delta-T, its system design parameters,
16 et cetera.

17 And in his TVA OIG interview summary, it
18 says that he consulted with system engineering. So,
19 I guess how do you reconcile those actions with his
20 determination that this was a minor/editorial change?

21 MS. ROELOFS: We'll -- this is Tricia from
22 TVA, we will turn that question over to our counsel,
23 Mr. Lewis, as well.

24 MR. LEWIS: Mr. Sprinkle has indicated
25 that he -- if this was the purpose, to allow the

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1 bubble to be drawn at 135, you know, he's
2 reconstructing it.

3 But, he says he believes it was a non-
4 intent change. And it was a non-intent change because
5 it appears to have preserved delta-T, the 320-degree
6 delta-T. And he says he made a mistake. He failed to
7 consider the part of the procedure that said it
8 shouldn't be minor if it changes the sequence of
9 steps.

10 So, I think the -- I think that's the
11 answer. That he was considering it minor. That's the
12 best he can gather. And then kind of reconstructing
13 after the fact, not being completely certain, but his
14 view is that it was probably minor if that was the
15 case, because it preserved delta-T and he simply made
16 a mistake in failing to consider the other aspects of
17 the minor one, that it not change the sequence of
18 steps.

19 MS. SIMON: Okay. I'm just going to ask
20 Gerry to -- Gerry could you put up the pages from
21 Exhibit 88, please?

22 And I think Mr. Lewis, or whoever is going
23 to answer this question, maybe it's more appropriate
24 for someone from TVA since it involves the procedure
25 itself. I think you'll -- you'll have to scroll up

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1 and down on your screen in order to possibly get to
2 the part I'm referring to.

3 But, I just wanted to ask a couple of
4 questions related to the procedure and the
5 requirements for minor/editorial changes. So, I'll
6 ask the question and then you can decide who you want
7 to address it.

8 So, at the bottom of the page that's on
9 the screen now, it's paragraph A. And so, it says --
10 it talks about minor changes, such as inconsequential
11 editorial corrections that do not affect the outcome,
12 results, functions, processes, responsibilities, and
13 requirements of the performance of procedural
14 instructions.

15 So, I'd like to know, is -- are minor
16 changes limited to inconsequential editorial
17 corrections, based on that statement? I'd like to
18 know the interpretation of that, please.

19 MS. ROELOFS: Hello, this is Tricia
20 Roelofs from TVA. Mr. Williams, also from TVA, will
21 answer that question.

22 MR. WILLIAMS: Yeah. Yeah, hello, Ms.
23 Simon. Can you ask me the second part of your
24 question?

25 I under -- I'm down at the section about

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1 the minor changes. But, you're trying to ask a
2 question about what would classify as a minor change?
3 And also the editorial portion of it?

4 MS. SIMON: Yeah. But my specific
5 question is -- I'm reading that first -- the first
6 part of that first sentence. And it says, such as
7 inconsequential editorial corrections, et cetera, et
8 cetera.

9 And so my question is, are minor changes
10 limited to those kinds of inconsequential editorial
11 corrections?

12 MR. WILLIAMS: Well, when you put in the
13 action verb, such as, these are examples of these that
14 would classify as a minor/editorial change. So, it's
15 not all inclusive when you use action verbs such as,
16 such as.

17 Those are kind of clarifying what are the
18 type of things that would fall under these type of
19 changes. So, I don't know if that answers your
20 question.

21 But, the action verb was such as, is
22 explaining that the rest of that sentence is examples
23 of things that would fall under the minor changes.

24 MS. SIMON: Okay. And so Gerry, could you
25 turn to the next page, please? This is a follow-up to

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1 that, Mr. Williams.

2 So, there's a list in, I guess, Paragraph
3 B of, is it, 8.17 categories of minor editorial
4 changes. And at Mr. (b)(7)(C) PEC, I asked him
5 which of these corresponded to the change in question
6 on November 9.

7 And he said number, paragraph 7 --
8 subparagraph for number 17, changes which are purely
9 administrative and non-technical in nature, which do
10 not change the intent or outcome of an activity.

11 And I guess so my first question would be,
12 would you or whoever is appropriate to answer, agree
13 with that assessment? Or is there another -- is there
14 another item in this list that you think it would fall
15 under?

16 MS. ROELOFS: Mr. Williams will answer
17 that question as well, Ms. Simon.

18 MS. SIMON: Thank you.

19 MR. WILLIAMS: Yeah. Ms. Simon, I think
20 we agree that when we looked back, we did the
21 investigation into this violation, this classification
22 of a procedure change based upon the effect that it
23 had, with the implementation of this evolution, should
24 not have been processed as a minor editorial change.

25 So, we understand the interpretations on

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1 that step 17 and how (b)(7)(C) believes that he would
2 fall under that. However, when you look at the way it
3 was interpreted by the operations group, and which we
4 agree with, would be an action verb that was used, it
5 changed the sequence.

6 So, this editorial, this change would not,
7 that occurred, would not be classified as a minor or
8 editorial change in accordance with this procedure.

9 MS. SIMON: Okay. I guess what I'm trying
10 to get at, is in trying to look into the, you know,
11 the mindset of either Mr. (b)(7)(C) or Mr. Sprinkle,
12 as they're looking at this -- as they're looking at
13 this change, it seems, you know, hard to look at a lot
14 of these items and say that, you know, clearly the
15 change was not, for example, a correction to
16 addresses, telephone numbers, or computer application
17 names.

18 A lot of these changes really do seem like
19 inconsequential editorial corrections. And so, I
20 guess we're trying to understand why an experienced
21 procedure writer or an experienced manager like Mr.
22 Sprinkle with an SRO license, would look at a change
23 like this, and classify it as any of these.

24 So, if you have any thoughts on that, we'd
25 like to hear them.

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1 MS. ROELOFS: Mr. Williams is -- and again
2 this is Tricia Roelofs. Mr. Williams will answer.
3 And then we'd also like our counsel to comment on the
4 issue of intent after Mr. Williams speaks.

5 MR. WILLIAMS: Yes, Ms. Simon, I think
6 that when you looked at the testimonies by Mr.
7 (b)(7)(C) and Mr. Sprinkle, it wasn't intentional
8 that they understood these steps in this procedure.

9 But they don't know how it's laid out.
10 Particularly when it's embedded in an administrative
11 procedure that has 17 steps.

12 But their testimony talks about
13 understanding, their understanding of the change that
14 was requested, and how it applied to this step in the
15 administrative procedure of minor and editorial
16 changes.

17 So, they had a thought process. They had
18 a basis for proceeding in the change in this manner.
19 They were wrong. They were incorrect on their
20 application of this step of the procedure.

21 It was not intentional. At least -- and
22 I'll hand this over to Mr. Lewis, who did some more
23 investigation on it.

24 But, we understand their basis. We
25 understand how a person could make this correlation

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1 that if the heat-up is stopped, and they needed to
2 initiate it, then you needed action verbs that would
3 allow them to do it.

4 And even the way the -- Mr. (b)(7)(C)
5 communicated that his thought process was, this was
6 wordsmithing by the operators, meant that it was
7 unintentional. That it was a major classification of
8 the procedure, a re-sequencing of those steps. That
9 it was a minor and editorial based upon the way he saw
10 this change being made.

11 So I'll hand it over to Mr. Lewis. But,
12 I understand how a person -- misapplied this step in
13 the procedure. We agree that it was a misapplied step
14 in the procedure.

15 But, I understand the basis and the way it
16 was phrased. And we don't believe that it was an
17 intentional misappropriation of the procedure, a
18 misapplication.

19 MR. O'BRIEN: Mr. Williams, before you
20 move on to Mr. Lewis, I'd like to follow up on
21 something you said. You indicated that there was a
22 belief by somebody. I'm not sure whom, but by
23 somebody that they may have needed to change from
24 raise to initiate in order to allow the heat-up to
25 either begin or continue.

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1 As both raise and initiate are action
2 verbs that allow an activity to occur, I'm a little
3 lost at that explanation since the activity could have
4 begun under either verb using your process.

5 And given that the individual, Mr.
6 Sprinkle, that was involved is a supervisor reviewing
7 those types of procedures, Mr. (b)(7)(C) was an
8 individual who had done, according to his own
9 testimony, many, many, many thousands of procedures.

10 And the operators were familiar with the
11 bolded, highlighted words in terms of your process.
12 And both of those words would have allowed them to do
13 the action being specified.

14 I'm a little at a loss, and I wonder if
15 you could help me to understand why that's something
16 that we should take as a logical argument?

17 MR. WILLIAMS: Mr. O'Brien, raise is
18 raising the rate. If you have a heat-up rate, we talk
19 about heat-up rate. We talk about cool-down rate.
20 When you're in here, in your procedures, they talk
21 about these rates.

22 And an operator would say raise at
23 increasing the rate of, the heat-up rate. Initiate
24 means start from scratch.

25 So, while I understand the issue, and I

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1 understand that it was the noncompliance with the
2 procedures, this change should not have been done as
3 a minor editorial change. But, I also understand that
4 operators in the control room, when they look at these
5 words, they do request that the changes be modified
6 too, because of the situation that they're in.

7 So, when you're talking about heat up, you
8 talk about cool down, a lot of times we imply rate
9 associated with those evolutions. And raising a rate
10 and lowering the rate where it initiated and you're
11 starting from scratch, initiate means start the heat
12 up.

13 So, that's the only time, the only way I
14 can see not being at the time. But, that's the only
15 way I can see it, that discussion in this hearing.

16 MR. O'BRIEN: So, to make sure I
17 understand, and I apologize, I just want one further
18 clarification.

19 You're making your argument that it
20 applies because it could be a rate that they were
21 assuming, even though a rate has nothing to do with
22 this question in hand?

23 MR. WILLIAMS: I'm not making an argument
24 on whether this was a procedure change that was --
25 should have been done under the normal process and not

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1 editorial.

2 And I'm also not making an argument on
3 what motivated Mr. Sprinkle or Mr. (b)(7)(C). When
4 I look at the way they communicated their basis, I
5 understand what, how they were looking at this change.

6 And I understand how they thought that
7 this would be something that might be considered a
8 minor and editorial change.

9 MR. O'BRIEN: Thank you, sir.

10 MS. ROELOFS: And this is Tricia Roelofs
11 from TVA. I'd like to ask if our counsel has anything
12 to add to those statements that Mr. Williams just
13 made.

14 MR. LEWIS: Yes. Going back, the
15 paragraph at the bottom of the previous page. The
16 last sentence has a statement of what minor changes
17 aren't.

18 Just scroll down, excuse me. So, minor
19 changes shall not change the intent of the procedure
20 or the technical sequence of procedural steps.

21 That's the most precise definition. Minor
22 changes are things that don't change the intent and
23 don't change the sequence.

24 That seems what Mr. (b)(7)(C) understood
25 he was doing. He wasn't changing the intent. It

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1 still required, under his interpretation reading, to
2 go through step 8.3 and reach 135 degrees Fahrenheit
3 before drawing the bubble. And it didn't alter the
4 sequence.

5 On the next page, item 17 again fits what
6 Mr. (b)(7)(C) understood. It wouldn't have fit what
7 the operators may have understood or how it may have
8 been interpreted.

9 But Mr. Sprinkle understood he was making
10 a change that was made to accommodate a request from
11 an operator that they wanted an initiate verb. From
12 his perspective, it was non-technical. It didn't
13 change the intent as stated here.

14 It didn't change the outcome of the
15 activity. It was, like he called, wordplay. And I do
16 understand, and maybe TVA could confirm that I'm
17 correct, that it's not all that uncommon that
18 operators ask for word changes in procedures.

19 And sometimes then subsequently another
20 operator that wants a different word change. And
21 those are made.

22 MR. O'BRIEN: Mr. Lewis, I appreciate
23 that. I want to make sure there's clarity in one of
24 the statements that you made.

25 You indicated Mr. Sprinkle had heard from

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1 the operators. I think you meant to say Mr.
2 (b)(7)(C). I just want to make sure that we're
3 correct on that.

4 MR. LEWIS: Yes. So, I was talking about
5 Mr. (b)(7)(C) intent. I misspoke. I apologize.

6 MR. O'BRIEN: No, that's okay. I just
7 wanted to make sure we were clear. Thank you very
8 much for helping me.

9 MR. LEWIS: I appreciate that
10 clarification very much. Thank you.

11 MS. SIMON: So, Mr. Lewis, I guess
12 following up on that briefly. I know Mr. (b)(7)(C)
13 identified number 17 as the one he felt was
14 appropriate.

15 But, I guess again, from Mr. Sprinkle's
16 standpoint, given that he went through and looked at
17 technical aspects like delta-T and other things, and
18 consulted with engineering, how does that -- how does
19 that -- how does that make it fall under number 17
20 when it's supposed to be non-technical and purely
21 administrative?

22 I mean, how does -- how does that change
23 compare to adding a step requiring a log entry, which
24 to me seems clearly administrative and has no
25 technical bearing on anything.

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1 Whereas, it certainly seems that, by Mr.
2 Sprinkle's own analysis, this had some technical
3 nature.

4 MR. LEWIS: Again, if Mr. Sprinkle
5 understood that, he was in fact, you know, having this
6 change made, or somebody was requesting this change be
7 made in order to allow the bubble to be drawn on decay
8 heat at less than 135 degrees, as apparently the
9 control room interpreted that.

10 You know, we have conceded it was not a
11 minor change. As -- so, if that was his
12 understanding, it would not have been a minor change.
13 And Mr. Sprinkle says, you know, yes, that's what I
14 was doing. I was thinking of it as a non-intent
15 change. And I made a mistake.

16 MR. O'BRIEN: Mr. Lewis, one more
17 clarification to something you just said. You made a
18 reference to the control room interpreting that.

19 Do you have evidence that that is how the
20 control room interpreted it? Or is that just Mr.

21 (b)(7)(C) dialogue?

22 MR. LEWIS: My belief that that may have
23 been held how the control room interpreted it, is the
24 fact that they drew the bubble at about 105 degrees.
25 So they didn't go to 135.

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1 And so you tried to figure out how, you
2 know, could they have drawn the bubble at 105 if they
3 were following the procedure. And you know, a
4 possibility, and you know, perhaps a bit more than
5 that is that's how they were interpreting the
6 procedure.

7 But, it is, again, we don't know. We
8 would very, very much like to see the materials that
9 you have with Mr. Redinger, because he's probably the
10 person who, you know, may have said something that
11 explains what was going on here.

12 And that part we've not been able to
13 reconstruct. We've not been able to determine in the
14 control room, you know, how they got to drawing the
15 bubble at 105. What was their thought process, and
16 why did they think it was permissible?

17 That part is not known to us.

18 MR. O'BRIEN: Thank you.

19 MS. SIMON: Okay. Gerry, could you put up
20 the other document about the IQR training? Thank you.

21 So, I just had a -- you didn't discuss
22 this this morning. But, it was in the written
23 response that you provided.

24 So, I just had a couple of questions about
25 the independent quality review. And I extracted a

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1 couple of pages from the training on that.

2 I actually want to go to, I don't remember
3 which page it is here. I think it's like the third or
4 fourth slide. Next, next, next. Yeah. That one.

5 So, my question is, based on what I can
6 see, Mr. Sprinkle was the person who, he didn't
7 initiate the change in the terms, in the term of art
8 in the, that computer program that TVA uses.

9 But, he essentially proposed it. He
10 communicated it to Mr. (b)(7)(C). He did research on
11 it, apparently, from his response. He did the
12 independent quality review. And he also ultimately
13 approved it as sponsor.

14 And I guess my question is, is that
15 consistent with the definition of independence as
16 shown in this training?

17 MS. ROELOFS: Ms. Simon, this is Tricia
18 Roelofs from TVA. We would like to ask our counsel to
19 answer that question based on their investigation and
20 review of the documents.

21 MR. LEWIS: If Mr. Sprinkle supplied the
22 information to the preparer for the revision, and
23 perhaps TVA can explain more than me on where to draw
24 the line.

25 But, if he was the person who really

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1 provided the information to Mr. (b)(7)(C) about what
2 was being done and why, then our position in our
3 written response is that that would not have been, he
4 would not have been independent. And shouldn't have
5 been the IQR reviewer.

6 Where we've had difficulty in assessing
7 this aspect, is in not having a clear understanding of
8 what Mr. Sprinkle communicated to Mr. (b)(7)(C).
9 That's the missing link.

10 If the request came from the control room
11 and the request was change raise to initiate, and that
12 was simply transmitted to Mr. (b)(7)(C) through Mr.
13 Sprinkle, perhaps he could have been the IQR reviewer.

14 Our written response indicates that we
15 just don't have enough information to know whether
16 this aspect in the training was met or not.

17 We do point out in our written response
18 that, as far as the procedure goes, it simply
19 prohibits the preparer from being the IQR reviewer.
20 And, you know, does not have this explicit requirement
21 in the procedure.

22 But, I'd also like to point out that this
23 aspect is not part of the violation that was provided
24 to TVA. This is not one of the alleged aspects of the
25 violation of what was sent to TVA.

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1 MS. SIMON: Okay. Thank you.

2 MR. O'BRIEN: Mr. Lewis, this is Mr.
3 O'Brien again. Based upon Mr. Sprinkle's testimony,
4 I believe he indicated that he was looking ahead. And
5 he identified the need for this issue.

6 And Mr. (b)(7)(C) indicates that Mr. --
7 Mr. (b)(7)(C) indicated that he was asked to change
8 it. It would -- I'm trying to make sure I understand,
9 because you implied, I think you implied again that
10 this may have come from the control room.

11 Do you have any information to indicate at
12 all and contradict Mr. Sprinkle's testimony that it
13 did come from the control room?

14 MR. LEWIS: Well, in talking to people in
15 the control room, am I on mute?

16 MR. O'BRIEN: No. You're live.

17 MR. LEWIS: Thank you. Excuse me.

18 MR. O'BRIEN: You're welcome.

19 MR. LEWIS: We asked a number of people in
20 the control room where this originated. They're
21 trying to find out.

22 One of the individuals that we talked to,
23 a gentleman named, (b)(7)(C), indicated that there
24 was an issue, and he couldn't remember with, you know,
25 whether they could heat up. And that he was aware of

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1 this issue.

2 And that they later learned, I believe
3 what happened is Mr. Redinger, who is the shift
4 supervisor, had to leave the control room for a
5 medical appointment. Mr. Heimel stepped in.

6 Then Mr. Redinger came back. And at some
7 point Mr. Redinger understood that there was a
8 procedure change that had been made. And I think the
9 implication that we gathered from that discussion was
10 that, you know, it resolved the issue.

11 So, evidently, there was something,
12 according to Mr. Heimel, that was being raised in the
13 control room. And I think that, the implication, that
14 he had a very, you know, nobody has a very precise
15 recollection unfortunately, of what was going on.

16 But, we did gather from him that there was
17 an issue raised in the control room. And it seems to
18 have been resolved later by a procedure change.

19 What Mr. Heimel could not tell us, was
20 what was the impediment? What was the sticking point?
21 Why couldn't they have heated up? And I said, I'm
22 sorry, Mr. Heimel.

23 So, we still have some indication that
24 there was an issue that was being raised in the
25 control room. We don't know exactly what it was.

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1 And we do have some indication that
2 perhaps this procedure change resolved it. We also
3 find Mr. Sprinkle's statement, have the sense that
4 he's not really sure that, you know, what he
5 understood in 2017 was right.

6 He was having trouble recalling back then.
7 And even today, he is not really sure what was the
8 purpose and who raised it. We are suffering from a
9 lack of information.

10 MR. O'BRIEN: Okay. Thank you, very much.
11 Marcia?

12 MS. SIMON: Okay. Thanks. And --

13 MS. ROELOFS: Excuse me, Mr. O'Brien, Ms.
14 Simon. This is Tricia Roelofs from TVA. I'm sorry if
15 interrupt.

16 MS. SIMON: That's okay.

17 MS. ROELOFS: Mr. Williams would like to
18 supplement that answer if that's permissible, please.

19 MR. WILLIAMS: Yes, Mr. O'Brien, I just
20 want to add, the, you know, associated with the role
21 of Mr. Sprinkle being the OCC, being that interface in
22 constant communication with the control room, and
23 being the look-ahead guy that's looking at the
24 different evolutions, it's not uncommon that that
25 position sees some, the control room team, seeing

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1 potential need for procedure changes.

2 And being the communication to get those
3 resources going. So, I do know from watching the OCC
4 evolutions that that curve with the ops representative
5 in the OCC, does -- is in very frequent communications
6 back and forth with the control room.

7 So, if the control room did have concerns
8 associated with the verbiage in this procedure, it's
9 not unusual that they would then tell Mr. Sprinkle to
10 initiate that procedure change problem.

11 MR. O'BRIEN: Thank you. Marcia?

12 MS. SIMON: Thanks. One final question on
13 apparent violation two. Again, with the IQR.

14 I just want to, I guess, clarify whether
15 the IQR review, part of the IQR review involves making
16 sure a minor editorial designation is appropriate.

17 MS. ROELOFS: Ms. Simon, this is Tricia
18 Roelofs from TVA. Mr. Williams will answer that
19 question.

20 MR. WILLIAMS: Yes. I believe we do
21 recognize that the IQR review should be evaluating the
22 classification of minor editorial in his review.

23 And looking at the -- and we agree that
24 the -- that review done by Mr. Sprinkle in his role of
25 the IQN review did not meet expectations to flag to

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1 see that that was not a minor or a technical change.

2 MS. SIMON: Okay. Thank you. Ken, were
3 there any other questions on --

4 MR. O'BRIEN: There were no other
5 questions in AV 2. Unless you have another one,
6 Marcia.

7 MS. SIMON: No. I don't.

8 MR. O'BRIEN: Then we'll move onto AV 3.
9 And I had a question on AV 3 I wanted to ask relative
10 to your material that you put up relative to the
11 different checklists.

12 And you indicated that the checklists, I
13 think it's Checklist B, but I don't have it directly
14 in front of me, did not quote/unquote require the
15 letdown system to be operable.

16 Could you help me appreciate any other
17 procedures, any other locations, any other processes
18 by which you would ensure that letdown would be
19 operable as part of your normal startup activities?

20 And I'll change the word operable if that
21 will help you to go away from the formal definition of
22 operable as used in tech specs, to mean available and
23 useful.

24 MS. ROELOFS: Mr. O'Brien, TVA, Mr.
25 Williams will be able to answer your question. But

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1 before that, could you please repeat your question?

2 Or could the court reporter please repeat
3 the question?

4 MR. O'BRIEN: I'll give it a shot since I
5 made it up as I was going.

6 MS. ROELOFS: Okay. Thank you.

7 MR. O'BRIEN: During your presentation you
8 made the point, I believe, that Appendix B did not
9 require the letdown system to be, I'll call it
10 operable. But I, you can also use available and
11 useful.

12 And so, my question was, with that
13 supposition in front of me, could you help me to
14 understand what other procedure, what other location,
15 what other control that you have, that you rely upon
16 in starting up the plant, to ensure that system is
17 available when needed?

18 Yeah. You just passed it.

19 MR. WILLIAMS: So, if you see, and I
20 believe Ken, this is real clear, this clarification,
21 are you talking about the section that says CVCS,
22 charging and letdown?

23 MR. O'BRIEN: That is correct.

24 MR. WILLIAMS: And so we understand the
25 tech specs, the application with the boric acid

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1 flowback, and that and charging is clear for the
2 operator to see the tech spec applicability in
3 accordance with the modes and clean.

4 And then the letdown isolation valve would
5 obviously have a tech spec application as well in the
6 letdown system. And we do have other procedures that
7 are tracking the operability of those systems.

8 And we do have systems that have the heat
9 column, the celsio tracking modules that are tracking
10 the tech spec required implications associated with
11 those components in the letdown line and those
12 components in the charging system that had tech spec
13 applications.

14 And then additionally, we do have the
15 normal process of letdown. But, with the whipping of
16 the PWR, the excess allows you to deviate around the
17 letdown process.

18 But that's an operational need type of
19 process. But, I'm going to turn this over to the
20 operations director to any other controls that we have
21 in place that are driving the operabilities, the
22 operable requirements associated with those charging
23 and letdown systems.

24 MR. RICE: Mr. O'Brien, this is Chris
25 Rice. So, for the letdown system, it's important to

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1 understand that the purpose of the letdown system is
2 to allow for clean up of the RCS and letdown. And
3 then volume control.

4 Now, with the -- as far as what else would
5 drop that, we do take this system out of service on
6 line from time to time to perform maintenance.

7 And the typical driver would be based on
8 other inputs such as RCS and chemical control, if we
9 were seeing that we were seeing elevated activity in
10 the RCS.

11 And that's when we take the -- when we do
12 take it out of service, those are the things that we
13 monitor for to ensure that it is capable of clean up
14 RCS.

15 MR. O'BRIEN: Mr. Rice, I apologize. I
16 wasn't clear enough in my question. During startup of
17 the plant, you have a procedure that is on the board
18 right now as it relates to ensuring systems are
19 aligned in the way and manner in which you expect
20 them. So they're available when you expect them to be
21 used.

22 My question was, during start up, what
23 other procedure besides this procedure, do you have,
24 that would ensure that the letdown system, more
25 specifically, and the portions that were out of

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1 service, would be put in service before they were
2 needed?

3 Not during normal operations. Not in
4 other times and other situations. But specifically
5 during this type of evolution and this type of set of
6 circumstances.

7 I appreciate your perspective relative to
8 Westinghouse. I spent a good portion of my career as
9 a Westinghouse resident. So, I understand that answer
10 too.

11 Mr. Rice, you're on mute. I don't know if
12 you're aware of that.

13 MS. ROELOFS: No, I'm sorry. This is
14 Tricia. He's off mute. Go ahead, Mr. Rice.

15 MR. RICE: I know of no other operating
16 procedure that would be in place at this time that
17 would require letdown situations, sir.

18 MR. O'BRIEN: That's -- thank you, very
19 much. That's the answer I thought existed, but I
20 wanted to confirm it. Thank you.

21 So, let me, I apologize, Mr. Rice, I want
22 to ask a follow up question just to be sure we're
23 clear on understanding and what not.

24 It is possible, it would have been
25 possible for you during this evolution, to have not

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1 put letdown in service at this point in time, and used
2 other measures to control its status until a point in
3 time you truly needed it, i.e., when you took RHR out
4 of service. Is that correct?

5 MS. ROELOFS: This is Tricia Roelofs. We
6 would like to refer that question to our attorneys,
7 please.

8 MR. O'BRIEN: Okay. But, I think this is
9 more an operational question as opposed to a -- but,
10 you can do as you please.

11 MS. ROELOFS: I'm sorry, Mr. O'Brien.
12 Again, I misunderstood what you needed. Can you
13 please rephrase the question?

14 MR. O'BRIEN: I can repeat it.

15 MS. ROELOFS: Could you repeat? Yes,
16 please.

17 MR. O'BRIEN: Mr. Rice, what I'm asking
18 is, your processes and procedures would allow you to
19 use other measures besides this checklist when you
20 were starting up, to allow you to track and control
21 the availability of the letdown valves, other than
22 this just through this procedure.

23 So you could have potentially used other
24 mechanisms to make sure you knew of its status when
25 you were going to need it.

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1 MR. RICE: Yes, sir. There are other
2 methods that could have tracked this letdown line and
3 letdown subsystem of the chemical volume control
4 system.

5 We could -- there are other methods that
6 could have tracked, what would have been required.

7 MR. O'BRIEN: Thank you, sir. I
8 appreciate that. I don't have any other questions
9 regarding AV 3. I don't believe the rest of my team
10 does, unless they tell me that I missed something.

11 So, we'll move onto AV 5. Marcia?

12 MS. SIMON: Thank you, Ken. I have one
13 question, unless I have follow ups about AV 5.

14 So, this apparent violation is not about
15 the crew's failure to make entries during the shift.
16 It's really about Mr. Johnson's failure to review the
17 logs at the end of the shift to ensure that they were
18 accurate and complete.

19 And Mr. Johnson stated in his OI interview
20 in December 2015 that as shift manager he was
21 responsible to make sure the logs were done properly.
22 And he failed to do that at the end of the shift.

23 Mr. Johnson indicated in his written
24 response that, by the time turnover with oncoming,
25 with the oncoming shift manager was complete, he was

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1 close to exceeding fatigue rule hours, and did not
2 legally have time to do a final end of shift thorough
3 review of the logs before he had to leave.

4 So, my question is, if that was the case,
5 what is a shift manager supposed to do in that
6 situation to fulfill the responsibility of ensuring
7 that logs are accurate?

8 MS. ROELOFS: Thank you, Ms. Simon. For
9 that question, again this is Tricia Roelofs from TVA.
10 Mr. Rice will answer your question.

11 MR. RICE: Ms. Simon, this is Chris Rice.
12 So --

13 (Telephonic interruption)

14 MS. ROELOFS: One moment, please. I'm
15 sorry, we were on mute. Can you start your answer
16 again, Mr. Rice?

17 MR. RICE: Yes. Ms. Simon, this is Chris
18 Rice. My expectation would be during that time frame,
19 if Mr. Johnson was unable to complete all of his
20 duties, that we would have pulled additional resources
21 to support, making sure that the logs were complete
22 and accurate.

23 There is opportunities to have provided
24 another SRO to the main control room to assist with
25 that function. And he could have delegated that to

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1 him. He did not do that.

2 MR. WILLIAMS: And if you look today on
3 how we do business, the loading in the control room is
4 something that we monitor and we evaluate.

5 We have shift managers that are very, that
6 acknowledge when they need help. They request for
7 additional resources to bring pools into the control
8 room to help out with logs, to help out with
9 additional procedures.

10 Last outage, the operations department
11 started having schedules that were loaded up more than
12 the available manpower that they had on shift. We
13 gave them resources to help re-sequencing their work
14 to allow them to complete the activities without
15 overloading the manpower that they had available to
16 them.

17 So, maintaining the logs from the
18 beginning of the shift to the end of the shift is a
19 manpower task that needs to be evaluated by the shift
20 manager, and today we do see those shift managers
21 letting the OCC know whatever help they need to
22 perform those functions.

23 MS. SIMON: Thank you, Mr. Williams. I'm
24 trying to understand at the time what Mr. Johnson's
25 options were and, for instance, whether he would have

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1 had training on the fatigue rule that would have
2 indicated to him what he should have done if he was
3 truly approaching his legal limit on hours.

4 MR. RICE: Ms. Simon, this is Chris Rice.
5 He did have the same options in place that we have to
6 -- that we have, that Tony mentioned today.

7 So we have those options available. We --
8 this was a -- there were potential waivers for fatigue
9 rule if it was so required.

10 I wouldn't expect that we would exercise
11 those options to ensure that the logs are complete and
12 accurate. And that is, we see that today.

13 But at the time, we did have an issue with
14 log keeping. And that was clearly identified in the
15 QA audit that was performed.

16 And this was so that many actions that
17 came out of that were to provide the coaching and
18 bringing up those standards associated specifically
19 with log keeping.

20 MS. SIMON: Thank you, Mr. Rice. Ken,
21 that's my last question on that apparent violation.

22 MR. O'BRIEN: I had one other question in
23 that area as it relates to AV 5. And it was a dialog
24 that occurred before.

25 And it goes a little bit to the logs in

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1 the sense that Mr. (b)(7)(C) and Mr. (b)(7)(C) were both
2 serving as day one shift, and the other shift if you
3 will, of oversight broad, and I use that word broad,
4 of ongoing activities.

5 And I know at least one of them in their
6 testimonies, either their comments to us, or their
7 presentations indicated that they routinely looked at
8 the logs before and after.

9 Given what some of the testimony has been
10 here today, and some of the other pieces of
11 information where the TVA was aware that this was an
12 issue, and was aware of the need to be attentive to
13 this, do you have any perspective, any comments you
14 want to provide relative to the very substantial
15 absence of information on this particular date?

16 And two of the more senior people in the
17 operations department, including the senior license
18 holder, not observing or making any comment in that
19 regard?

20 MS. ROELOFS: This is Tricia again, from
21 TVA. I will take the initial part of that answer.
22 And then we'll turn it over to our counsel to complete
23 our answer.

24 MR. WILLIAMS: Yeah, Mr. O'Brien, we would
25 -- I would have expected those individuals to see

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1 those gaps in the performance with the log keeping.

2 I can't speculate on why it didn't occur
3 on that day. But, I will turn it over to legal
4 counsel to see if in their investigation they found
5 something on why they did not pick upon the gap in log
6 keeping.

7 MR. O'BRIEN: Thank you.

8 MR. LEWIS: I don't recall Mr. (b)(7)(C)
9 saying that he always did it. I -- you'll have to
10 excuse my recollection of this. You caught me by
11 surprise with this question.

12 But, I think he said he -- I think the
13 sense was that he often did it. But, I don't know
14 that he in fact did review the log when he came back
15 on the shift on the evening of November 11.

16 Nor do I believe that he would have
17 necessarily recognized this omission from the log. I
18 think his understanding when he came back was, the
19 operators were very calm.

20 I don't think he got the sense that there
21 was a significant evolution. But, then I don't think
22 we've ever really probed this with Mr. (b)(7)(C).

23 And so I'm not confident I really know the
24 answer. And similarly, I don't know whether Mr.
25 (b)(7)(C) said that he routinely reviewed the logs.

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1 He'd only been the (b)(7)(C)
2 (b)(7)(C) (b)(7)(C)
3 (b)(7)(C)

4 And again, like Mr. (b)(7)(C), I don't know
5 whether he did review the logs at the end of the day,
6 or would have perceived the omission.

7 MR. O'BRIEN: Thank you, Mr. Lewis. I
8 guess I have a follow up to this. And it goes back to
9 part of the dialog from, I think, Mr. (b)(7)(C) and Mr.
10 (b)(7)(C) relative to, and I think some of the
11 discussion here, relative to trying to change the
12 accountability and the expectations and performance.

13 Obviously here's a situation where the
14 control room doesn't do logging as they're required
15 to. The shift manager doesn't do a review as he's
16 required to. The (b)(7)(C), the
17 operations directors don't identify that and do
18 anything.

19 I'm struggling to try and equate those two
20 different answers, accountability and trying to set
21 that up. And then what appears to be some of those
22 individuals who'd be responsible for actually doing
23 that, having no recollection or not being involved in
24 that at all, and no observation of it.

25 Any feedback, any thought for me there?

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1 MS. ROELOFS: Mr. O'Brien, Mr. Williams
2 has a comment on your question.

3 MR. O'BRIEN: Thank you.

4 MR. WILLIAMS: Mr. O'Brien, I fully agree
5 that the leaders need to -- they need to, they need to
6 be performing the same standards that they expect out
7 of the workforce.

8 And if the workforce is not following the
9 procedures because management is not also following
10 the procedures, then you're never going to improve
11 performance.

12 If there is something that's important to
13 the leaders -- to the stations, and it's something
14 that is an improvement initiative, then you need to
15 provide the ability for those teams to improve their
16 performance and be successful. But you need to
17 monitor them to see if they're correcting those
18 issues.

19 So, I will speak to the improvement plan
20 that occurred at the site as far as the corrective
21 action associated with what we learned from these
22 events. And one of them is the -- or one of the
23 biggest one is the leaders have to be out there.

24 They need to be engaged. They need to be
25 supporting the improvement initiatives within their

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1 teams. And when you look at some of these, this event
2 and some of the leaders' behaviors as well, it doesn't
3 appear that they were supporting and reinforcing those
4 standards.

5 But yet, that was a focus area. And that
6 could have been a reason why the performance didn't
7 improve as fast as what it should have.

8 MR. O'BRIEN: Thank you, Mr. Williams. I
9 appreciate that.

10 MR. LEWIS: This is David Lewis. Could I
11 just clarify what I said a second ago?

12 MR. O'BRIEN: Sure.

13 MR. LEWIS: What I was really trying to
14 say is, we don't know. I was, I guess challenging the
15 assumption that Mr. (b)(7)(C) and Mr. (b)(7)(C)
16 necessarily looked at the logs that evening. And
17 would have recognized it.

18 I don't know whether they did or didn't.
19 And I was indicating I don't recall them saying that
20 they always did.

21 But again, the answer is, I think we don't
22 know. At least from our inquiry whether they looked
23 at the logs at the end of the day. Or that they
24 recognized there was any omission.

25 There's just no record that we're aware of

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1 right now. But we're also not aware from anybody's
2 statement that anybody intentionally tried to, you
3 know, not log information or tried to conceal any
4 information.

5 That's -- everybody we've talked to has
6 stated that clearly.

7 MR. O'BRIEN: Thank you, Mr. Lewis. I
8 don't believe we have any other questions on AV 5,
9 unless my team has something else they've developed.

10 So we'll move on if it's okay with you,
11 Mr. Barstow. And we'll move onto AV 6. I know we're
12 right at about an hour since we started. I think this
13 will be relatively short if that's okay.

14 MS. ROELOFS: That's okay with us, thank
15 you.

16 MR. WILLIAMS: Yes, Mr. O'Brien, we'll
17 continue.

18 MR. O'BRIEN: Thank you. I have a
19 question relative to AV 6. And really what I'm
20 looking for is an understanding of where, if it is,
21 defined anywhere in TVA procedures or Watts Bar
22 procedures, what constitutes prudent operator actions?

23 And then how that relates from your
24 perspective to any of the actions that occurred on
25 November 11?

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1 MS. ROELOFS: Hello, this is Tricia Roelofs
2 from TVA. Mr. Rice will answer that question for you.

3 MR. O'BRIEN: Thank you.

4 MR. RICE: Mr. O'Brien, as far as prudent
5 operator actions, they are defined in the technical
6 instructions. Those are associated with abnormal or
7 emergency operating procedures, however.

8 As far as this, the use of prudent
9 operator actions in this scenario, I would say that
10 they were misapplied. Today, we've trained on this
11 following this event with operators over the last few
12 years.

13 And made efforts to reduce prudent
14 operator actions even in abnormal or emergency
15 situations by building our procedures.

16 So, for this particular case though,
17 prudent operator actions would not have been the best
18 method for dealing with the issue.

19 The best method would have been to have
20 preplanned for a contingency such as this, reviewed
21 the procedures, had the procedures out, ensured that
22 they support coming into and out of the line up. And
23 then completing the procedures in their entirety.

24 And if that was not capable of being
25 performed, then a procedure change should have been

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1 performed or as a last effort to ensure -- to follow
2 through with the appropriate use of n/a in accordance
3 with procedures.

4 MR. O'BRIEN: Mr. Rice, you make my memory
5 cells proud with your response. In that as a former
6 resident, senior resident, that is exactly the answer
7 I would have expected. Thank you.

8 MS. ROELOFS: You're welcome.

9 MR. O'BRIEN: I don't believe, and I'm
10 going to check with my team to make sure, so they can
11 correct me, I don't believe we have any more questions
12 regarding AV 6. Is that fair?

13 Tricia and Mr. Barstow, we have no further
14 questions at this point in time. We're at about an
15 hour.

16 If you'd like to take a 15 minute break
17 and then come back and finish for the day, that would
18 be a good idea. But, I'm open to suggestions.

19 MS. ROELOFS: Yes, sir. We would like to
20 please take a short break. And then we will resume at
21 let's say 1:55.

22 MR. O'BRIEN: I'm really good with that
23 Tricia. Correct. Five minutes before the hour.

24 MS. ROELOFS: Five minutes before the
25 hour, 1:55 Eastern. Thank you.

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1 MR. O'BRIEN: Thank you very much. So
2 Court Reporter, we're off the record until five
3 minutes to the hour.

4 MS. ROELOFS: Thank you.

5 MR. O'BRIEN: Thank you.

6 (Whereupon, the above-entitled matter went
7 off the record at 1:39 p.m. and resumed at 1:57 p.m.)

8 MR. O'BRIEN: Mr. Barstow, at this point
9 in time we're ready to begin if you are.

10 MS. ROELOFS: This is Ms. Roelofs. We
11 are. And we would -- our counsel would like to make
12 one clarifying comment. And then just a very brief
13 closing comment for TVA.

14 And I'm sorry for interrupting Mr.
15 Barstow. I'm just seated next to the mute button.
16 So, that's why I'm speaking.

17 PARTICIPANT: Can we make sure the Court
18 Reporter is on line, please.

19 MR. O'BRIEN: Court Reporter, are you
20 online? Court Reporter, are you on line?

21 COURT REPORTER: Yes, Mr. Chair.

22 MR. O'BRIEN: Thank you. Go ahead Tricia.
23 You had a clarifying comment you wanted to make before
24 we begin?

25 MS. ROELOFS: Yes. Our attorney would

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1 like to make that comment.

2 MR. LEWIS: Yes. This is David Lewis.
3 Marcia, I believe you indicated in one of your
4 questions that the shift manager was required to read
5 the logs at the end of his shift.

6 I just wanted to clarify, I think the
7 procedure is OPDP-1, Section 4.6(I), which says the
8 shift manager reviews the logs to ensure the logs are
9 accurate and appropriate.

10 I just want to point out it doesn't
11 specifically say at the end of the shift. It's just
12 his responsibility to review the logs.

13 MR. O'BRIEN: Thank you, Mr. Lewis. Mr.
14 Barstow, we're about to finish right now. And before
15 we finish I'd like to offer any -- for the day that
16 is, only for the day, I'd like to offer you the
17 opportunity to comment sir, if you'd like your legal
18 counsel to make a short, brief statement.

19 MR. BARSTOW: Yes, thank you, Mr. O'Brien.
20 I think Mr. Rausch would like to make some closing
21 comments.

22 MR. O'BRIEN: Thank you.

23 MR. RAUSCH: Okay. This is Tim Rausch.
24 And first of all, I'd just like to thank you for the
25 opportunity today to present our facts as well as

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1 answer your questions.

2 Just to be very clear and concise here at
3 the end, TVA accepts the apparent violations
4 associated with current violations, 1, 2, 3, 5 and 6.
5 We accept those on the fact that there are various
6 cases where performance did not meet our expectations.

7 But we also have been very clear that in
8 each of those cases, we do not believe there was any
9 deliberate misconduct. And with that, we'll close the
10 day.

11 MR. O'BRIEN: Thank you, Mr. Rausch. I
12 really appreciate that. I have just a couple of
13 comments I want to provide. And then I'll provide them
14 each day and those that may have listened in on some
15 of the individual conferences, I raise somewhere.
16 First, I just want to remind everybody of two things
17 relative to this pre-decisional enforcement
18 conference.

19 First is that the apparent violations that
20 we've discussed today are subject to further review
21 and subject to change prior to any resulting
22 enforcement action. That's the whole reason we're
23 holding this conference.

24 And second, the statement or views or
25 expressions of opinion made by the NRC employees at

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1 this pre-decisional enforcement conference, or lack
2 thereof, are not intended to represent any final
3 agency determinations or beliefs.

4 Those are two very important factors. And
5 as I said, I'll repeat them each of the next two days
6 to reinforce the fact that this is an information
7 gathering for us.

8 And we greatly appreciate the time and
9 effort that Mr. Rausch, you and your staff have put in
10 and the information that you've exchanged with us
11 today. I even further appreciate the materials that
12 you sent in advance that allowed us to make sure that
13 we were most fully ready to have this conference and
14 to listen. So thank you very much.

15 Unless there are any final comments, and
16 I'll pause for a moment in case somebody does have
17 another one.

18 I'll close the meeting at this point.
19 I'll ask the Court Reporter and Ms. Roelofs to talk
20 to, there's a couple of factors that they need to
21 address.

22 But we are off the record at this point in
23 time. Thank you very much.

24 (Whereupon, the above-entitled matter went
25 off the record at 2:00 p.m.)

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