



Richard Anderson's

I, Kenneth J Hylander, have read the foregoing pages of a copy of my testimony given during a follow-up interview stemming from NTSB's investigation of the collision of Amtrak Train 91 with CSX local train F777 on February 4, 2018, in Cayce, South Carolina and these pages constitute a true and accurate transcription of same with the exception of the following amendments, additions, deletions or corrections:

<u>PAGE NO:</u>	<u>LINE NO:</u>	<u>CHANGE AND REASON FOR CHANGE</u>
6	17	Northwest not Northwestern
9	1,2,4	Air Lines not Airlines
11	18	for clarification... technical operators not tech ops
13	15	"Austin" not "Boston"
32	10	"Hidden by" not "Hitting"
40	17	"AWARE" not "Aware"

I declare that I have read my statements and that it is true and correct subject to any changes in the form or substance entered here.

Date: _____ Witness: _____

Due to Richard Anderson's unavailability, as his designated representative at the interview, I declare that I have read Mr. Anderson's testimony and that it is true and correct subject to the above changes to the transcript for the reasons noted.

Party Representative for Richard Anderson [Redacted Signature] 5/9/19

UNITED STATES OF AMERICA

NATIONAL TRANSPORTATION SAFETY BOARD

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Investigation of: *

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COLLISION OF AMTRAK TRAIN #91 AND *

*

A STATIONARY CSX TRANSPORTATION

TRAIN NEAR CAYCE, SOUTH CAROLINA * Accident No.: RRD18MR003

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FEBRUARY 4, 2018

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Interview of: RICHARD ANDERSON

Chief Executive Officer/President

Amtrak

NTSB Headquarters

Washington, D.C.

Monday,

April 1, 2019

APPEARANCES:

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I N T E R V I E W

1
2 MR. HIPSKIND: Good morning, everybody. My name is Richard
3 Hipskind, and I am the investigator in charge for NTSB for the
4 Cayce, South Carolina accident. We are here today on April 1st,
5 2019 at NTSB's headquarters in Washington, D.C. to conduct an
6 interview with Mr. Richard Anderson, who is the Chief Executive
7 Officer for National Railroad Passenger Corporation, or Amtrak.

8 This interview is in conjunction with NTSB's investigation of
9 a collision of Amtrak Train 91 with CSX Local F777 on April 4th,
10 2018. The local train --

11 MR. HYLANDER: It was February 4th.

12 MR. HIPSKIND: Pardon?

13 MR. HYLANDER: February 4th.

14 MR. HIPSKIND: Oh, excuse me.

15 MR. HYLANDER: You said April 4th.

16 MR. HIPSKIND: Excuse me. I appreciate that. It was
17 February 4th. The local train was stationary in CSX's silica
18 storage track located near Cayce, South Carolina, and the Amtrak
19 train diverted from the main track into the storage track via a
20 main track switch during a signal suspension. The NTSB accident
21 reference number is RRD-18-MR-003.

22 Before we begin our interview and questions, let's go around
23 the table and introduce ourselves. Please spell your last name
24 and please identify who you are representing and your title. I
25 would remind everybody to speak loudly and clearly enough so we

1 can get an accurate recording. I'll lead off and then pass off to
2 my right.

3 Again, my name is Richard Hipskind. The spelling of my last
4 name is H-I-P-S-K-I-N-D, and I am the investigator in charge for
5 NTSB for this accident.

6 MR. FRIGO: Ryan Frigo, F-R-I-G-O, NTSB, railroad operations
7 and system safety.

8 MS. IMPASTATO: Theresa Impastato, I-M-P-A-S-T-A-T-O, Amtrak,
9 Senior Director of System Safety.

10 DR. HOEPF: Michael Hoepf, H-O-E-P-F. NTSB, system safety.

11 MR. HIPSKIND: And Richard.

12 MR. ANDERSON: Richard Anderson. I'm the Chief Executive
13 Officer and President of Amtrak.

14 MR. HIPSKIND: All right. Thank you, everybody.

15 And, Mr. Anderson, do we have your permission to record our
16 discussion, our interview, with you today?

17 MR. ANDERSON: Yes, sir.

18 MR. HIPSKIND: And, Mr. Anderson, do you wish to have a
19 representative with you at this interview?

20 MR. ANDERSON: No, sir, other than having Ken and Theresa
21 here.

22 MR. HIPSKIND: Now, Ken, will you please --

23 MR. HYLANDER: Ken Hylander, H-Y-L-A-N-D-E-R, Executive Vice
24 President/Chief Safety Officer, Amtrak.

25 MR. HIPSKIND: All right. Thank you, Ken.

1 And, Mr. Anderson, do you mind if we proceed in this
2 interview on a first-name basis?

3 MR. ANDERSON: That would be good.

4 MR. HIPSKIND: Okay, thank you for that. And for full
5 transparency, were you provided a topic list, a roadmap, for this
6 interview that included the broad topic areas for today's
7 discussion?

8 MR. ANDERSON: Yes, sir.

9 MR. HIPSKIND: And was helpful?

10 MR. ANDERSON: Yes, sir.

11 INTERVIEW OF RICHARD ANDERSON

12 BY MR. HIPSKIND:

13 Q. All right. Since we have not interviewed you here, to my
14 recollection, at any time while I've been at NTSB, could you give
15 us kind of a synopsis of your work and executive-related history?
16 And, Richard, I really would like for you to focus on the years
17 that you spent at Northwestern and Delta and bring us up to your
18 current position title and all that.

19 A. Okay, thank you. Thanks, everyone, for having me here today.
20 My career in transportation started in 1987 when I joined
21 Continental Airlines in Houston, Texas, as a lawyer and was given
22 responsibility for regulatory compliance including FAA compliance
23 and NTSB matters.

24 And in the course of that tenure at Continental, from 1987 to
25 1990, I had extensive experience representing Continental with the

1 Federal Aviation Administration and was involved in NTSB matters,
2 as we had a significant aviation accident on November 15th, 1987.
3 So that gave me a pretty strong grounding in regulatory and safety
4 oversight of the aviation industry.

5 In 1990, I went to work at Northwest Airlines as deputy
6 general counsel, and in 1992 began to move into business and
7 operations. And during my tenure there in the legal department,
8 among other things, I had responsibility for regulatory
9 compliance.

10 In 1992, I took over responsibility for environmental
11 compliance, real estate, and a myriad of other businesses. And
12 then in 1996, took over responsibility for technical operations,
13 which is maintenance and engineering at Northwest, and then
14 eventually evolved into becoming the EVP of operations, the chief
15 operating officer, and then the chief executive officer.

16 And at Northwest, we were leaders in the adoption of ASAP and
17 FOQA, which are the Flight Operations Quality Assurance program
18 and the aviation safety reporting system that is in use today in
19 the industry.

20 So it's at that point in time, in 1987, that I was involved
21 with a team of people that recruited Ken Hylander. Ken was the
22 director of engineering at United Airlines. And Ken joined us as
23 chief engineer, and then, in addition to being chief engineer was
24 placed in charge of our safety programs.

25 And at Northwest, we developed a data-driven approach to both

1 operations and safety, and we developed good metrics around
2 tracking our performance against regulatory compliance. We
3 developed the ODI, which was the Operational Difficulty Index,
4 which were all the things that created for difficulties on
5 airplanes, like in-flight shutdowns and pressurization events and
6 the like. And then we had a Flight Safety Index in addition to
7 the usual employee health, welfare and safety metrics.

8 So we began really working on driving the business to a much
9 safer level of operation by the use of metrics, quality assurance,
10 and forward-looking assessments of where the risks would be in our
11 business. And these were really -- probably, we didn't realize it
12 at the time -- were really the precursors to where SMS is today.

13 But we would manage very closely to the data when we saw an
14 uptick in events that were precursors or indicators that perhaps
15 there'd be some risk in the future in the business. And as we
16 matured toward what is SMS today, we developed more capabilities
17 around risk management and the adoption of safety policies to
18 mitigate the risks in the business.

19 Then, in 1998, I became chief operating officer of Northwest,
20 and then -- I believe it's 1998, somewhere around there -- and
21 then I became CEO in early 2001 of Northwest. And I stayed there
22 for about 4 years, and then I left the industry in 2004 and I went
23 to work at United Health Group in Minnesota. And I was president
24 of the commercial businesses at United Health Group and was
25 involved there for 3 years, and then was recruited by the

1 Creditor's Committee of Delta Airlines' Chapter 11 Bankruptcy and
2 became a member of the board of directors of Delta Airlines in May
3 of 2007. And then, shortly thereafter, was recruited to be the
4 CEO of Delta Airlines in -- I believe that was announced in late
5 summer of 2007.

6 And when I got to Delta, there was no ASAP program, there was
7 no FOQA program, and the company's on-time performance and its
8 other metrics were quite poor. We didn't have good visibility
9 into the kind of data you need to really run a safety program
10 because we didn't have ASAP and FOQA, which is the genesis of the
11 data that you need to figure out how the system safety's
12 performance is across the airline.

13 Ultimately, at Delta, we bought Northwest Airlines and,
14 fortunately, that brought over to the company a lot of really good
15 operators that Delta did not have. And among those were Ken
16 Hylander, and Ken brought over the FOQA and ASAP and what I'll
17 call the precursors to SMS from Northwest.

18 And then, at the time of the merger between Northwest and
19 Delta, Ken was responsible for the merger to a single operating
20 specification. And then, ultimately, the implementation with Lee
21 Moak, who was the head of ALPA at the time, we had his support, my
22 support and, fortunately, Ken engaged, and we implemented ASAP and
23 FOQA at Delta.

24 And we had a number of FAA violations at the time for
25 maintenance problems, and we went down the road with FAA for a

1 voluntary disclosure system. So every time we found an anomaly in
2 our maintenance programs, which were typically AD overruns, MEL
3 overruns, CDL overruns, basically time-controlled events or
4 documentation events, we would go through voluntary disclosure to
5 the FAA. And then we would participate with the FAA in a program
6 to get -- to do the root cause analysis and then put the fixes in
7 place so that it wouldn't happen again, and ultimately reached a
8 point, through the voluntary disclosure system with the FAA, that
9 we no longer went to enforcement actions. Everything was done
10 through a voluntary disclosure system. And the same occurred for
11 all of the operating departments in the company.

12 So, I believe, Ken, we were the first adopters of SMS in
13 aviation, at Delta?

14 MR. HYLANDER: Yes, I think so.

15 MR. ANDERSON: Yeah, and we were sort of right at the
16 beginning -- actually, we were sort of ahead of the rulemaking.
17 But we thought that it was fundamentally important to have as much
18 information about what was going on in our operation as possible.
19 And the only way to get that information was in a just culture
20 where our pilots, flight attendants, mechanics, dispatchers, other
21 operating personnel had free and open access to disclosing
22 everything that occurred in the system.

23 And the most important principle behind that was giving
24 everybody the unfettered right to stop the operation at any point
25 in time without any risk of recrimination so that we all bore the

1 responsibility of running the operation safely. And the only way
2 to really run an operation safely is to have everybody have --
3 know that they can openly and honestly, in a very transparent way,
4 discuss what's going on in the operation. And most importantly,
5 everyone has the authority to stop the operation with no
6 recriminations whatsoever.

7 And we implemented those programs at Delta quite
8 successfully. And we saw, on the employee injury side of our
9 business, we saw our employee injury rates go down to the lowest
10 levels in the aviation industry.

11 And we ultimately signed up on the OSHA side of our business
12 for their highest level of regulatory relationship, VPN [sic]
13 programs. So our goal was to become a member of the VPN programs
14 at OSHA for our groundworkers every place we could, whether it was
15 a reservation center or an engine shop.

16 And then, in flight operations and in technical operations we
17 managed the business to our Flight Safety Index and our
18 Operational Difficulty Index. On the tech op side of the
19 business, that meant collecting significant amounts of data on the
20 performance of every airplane and every system on every airplane
21 into a central database with a core team of engineers assigned to
22 each piece of equipment. And that core team of engineers would
23 have powerplant systems, structure, cabin engineers, and they were
24 responsible for driving our maintenance program to reduce
25 Operational Difficulty Index.

1 The Operational Difficulty Index was really a precursor to
2 something more significant happening. And our philosophy was if
3 we drove down in-flight shutdowns, if we drove down pressurization
4 events, if we drove down gear indication events, we would
5 ultimately operate the airline much, much safer because those
6 incidents would go down as writeups and anomalies on the airplane
7 and other things would come up. So you were always working on the
8 top 20 anomalies on a piece of equipment and focusing your
9 engineering work to repairing those systemically.

10 So the classic example was the DC-9 landing gear indication
11 system. The DC-9 landing gear indication system had a design
12 defect in the proximity switches. So we were often getting --
13 when you throw a landing gear down, you got to get three greens.
14 And if you get one green, one red, one green, then you're in an
15 operational difficulty, right, because you don't have three down
16 in green. Typically, all the gears were down in green. And you'd
17 have to do fly-bys and all kinds of other extraordinary measures
18 to make sure it was safe to land. Well, we did a complete
19 modification of the switch on the airplane to fix that problem,
20 and then we put all the airplanes through a speed line and we
21 replaced all the landing gear indication switches.

22 And we could go through, for hours, incidents by fleet. And
23 on the A-330, it was actually some of the plumbing problems in the
24 lavatories were causing really significant problems. There was a
25 problem on the A-330 with the pitot tubes giving a false

1 indication in cockpits, particularly in icing situations.

2 So, I mean, we -- Ken and I could probably go through and
3 catalogue hundreds of these from memory where we knew we had a
4 specific problem. And then the engineering work would be applied.
5 We'd go fix that problem. It would move off the list and
6 something else would move on. And you just kept at that list, and
7 that's how we attacked the maintenance side of the business.

8 On the ops side of the business, we had pilot reports and we
9 had FOQA data. And FOQA data was the most powerful data that we
10 had. The FOQA data was the most powerful data that we had because
11 it auto-downloaded -- on the modern airplanes, it auto-downloaded
12 the flight data recorders.

13 And we had MITR, I believe it was, or -- we had a third-party
14 service. Who'd we have?

15 MR. HYLANDER: Boston Digital.

16 MR. ANDERSON: Yeah, we had a third-party service that would
17 take that data and put it in a relational database with
18 parameters. And when we saw anomalies in the operating data from
19 the day before -- every morning, the FOQA team, with the union,
20 sat down and went through all the data and found all the operating
21 anomalies outside of the approved parameters.

22 A classic example would be unstable approach below 1,000
23 feet, because we had a rule that you had to be stable -- all the
24 metal out, gear down, ready to land at 1,000 feet. If you had an
25 unstable approach, these sorts of things would all pop up.

1 And you could trend the data based upon location, type of
2 equipment. Sometimes it may be an individual pilot who needed
3 more training or needed to go back through a sim period. I can
4 remember just a couple examples.

5 One was we were having an unstable approach problem into San
6 Diego. And what we found out was the FAA was putting us too tight
7 to final. And the airplane we were flying in there was a 757,
8 which is a very powerful airplane. It's hard to get the speed
9 down. And they were dropping us really fast, and we -- it was too
10 fast to stay ahead of the airplane. So we were going into San
11 Diego, hot and heavy -- well, not hot and heavy, hot and long.
12 And we were able to work with the FAA and the air traffic
13 controllers to change the approach paradigm into San Diego.

14 The other one was when we brought the 747-400 to Delta. And
15 when we were doing max takeoff, full weight, full fuel, out of
16 Atlanta when it was really hot, the margin between stall and climb
17 got really narrow because the airplane was so big and heavy, and
18 it was so hot. And we had a tight turn out of takeoff, and you'd
19 get something called the barber pole, which is an indicator in the
20 flight directory display that tells you you're getting close to
21 stall speed. And we had to change procedures. This is one where
22 Ken and I went in the simulator with the pilots to understand what
23 was going on and what we needed to do to change the way we were
24 doing business.

25 And so that's that this data gives you; the data is rich from

1 FOQA, and it allows you to spot trends across the whole airline
2 and then be able to take that data and implement risk management
3 and, in some instances, change your safety policy, but in all
4 instances use those experiences for safety promotion across the
5 enterprise so that you have greater awareness of situations,
6 giving people situational awareness.

7 Training programs can change. I'm certain that the 747
8 training program changed at Delta after our merger. And we would
9 use the data to both change training programs, change operating
10 procedures, fix maintenance issues, interact with airports, with
11 the FAA, to mitigate risks across the business when we saw
12 problems crop up.

13 So, if we fast forward now from Delta, Ken and I both -- I
14 retired. I think I was -- between Delta and Northwest, I was CEO
15 about 13 years -- 12, 13 years between the two. And then my last
16 tenure there was just about 9½, 10 years. And then I came to
17 Amtrak, to serve Amtrak. And we had -- Train 89 was my first
18 involvement, really, with the NTSB report that was issued in --
19 November of '17?

20 MR. HYLANDER: Yes.

21 MR. ANDERSON: And Theresa, you and I spent -- we first met,
22 and it was obvious that just culture and SMS needed to be
23 implemented. That was what your recommendation was. It was
24 absolutely the right recommendation. And we started down that
25 path of implementing SMS and moving to a just culture, and then it

1 was accelerated by Train 501. And that's when Ken joined us. And
2 now we're heavily down the path with the board of SMS and the
3 implementation of a just culture and the components of SMS. So
4 that brings us up to today.

5 MR. HIPSKIND: Thank you, Richard. That was very
6 informative.

7 BY MR. HIPSKIND:

8 Q. So let me say this. Fair to say that a lot of your
9 experience and beliefs formulated in the aviation industry, that
10 you find that useful to taking on, implementing an SSPP, System
11 Safety Program Plan, and SMS program at Amtrak?

12 A. Correct.

13 Q. Okay. And the ramp-up time, I'm going to say, if I listened
14 to you correctly, you were 4 or 5 months, and able to roll that
15 out about a year ago today?

16 A. Well, not quite a year. We started down the path a year ago.
17 But the rollout, really, is a multi-year process, to roll it out
18 at Amtrak. But, yes, we -- Theresa and I, in November of '17,
19 made the policy decision; 501 occurs, which really gives us the
20 impetus for acceleration; Ken comes on board and begins the
21 implementation. Our formal implementation of the SMS was in
22 November of '18, although -- although, we began implementation of
23 a number of elements of SMS around the time of this accident. And
24 the first one was signal suspension analysis and what Amtrak's
25 policy would be on signal suspension, because signal suspension

1 was a factor in the Cayce, South Carolina accident.

2 Q. Okay. And as you know, we interviewed Amtrak's chief
3 operating officer; vice president safety, compliance and training;
4 as well as your chief safety officer, Ken, who's with us today.
5 We interviewed them last week. And these -- those conversations
6 were very helpful in advancing our understanding of Amtrak's
7 efforts with implementing a safety management system, or an SMS,
8 or your SSPP.

9 So today, I would like to continue that conversation by first
10 asking you if you agree with some of my characterizations of what
11 I think I learned. So are you okay with that?

12 A. Yes, that's great.

13 Q. All right.

14 A. Good idea.

15 Q. Okay, great. Amtrak is about a year into the release of the
16 SSPP policy.

17 A. Yes.

18 Q. And that road to full implementation is a multi-year effort,
19 and so said the three gentlemen last week and I believe that's
20 what I'm hearing you say today. And the other thing I recall is
21 it was one effort that was characterized by a continuous
22 improvement and that values -- that effort values building and
23 sustaining a just culture and working towards that environment.
24 So correct, so far?

25 A. Perfect statement.

1 Q. Okay. And although my background is not specifically in SMS
2 principles, my takeaway is that SMS or a System Safety Program
3 Plan, an SSPP, is focused on proactive -- it's proactive in
4 nature. And that's not to say that events, conditions,
5 performance, and behavior cannot be tracked and analyzed and
6 considered.

7 So when you look at -- in recalling your statements about the
8 aviation, it sounded to me like you can't fix that which is not
9 measured. And so, you'd have a lot of data incoming from a lot of
10 different aspects of each operation of the aviation industry. And
11 so, there is kind of a reactive analysis after things -- after
12 you've measured things, you get them back and you measure them.

13 So are you in agreement with any of that remark?

14 A. Yes. Data is the foundation of a good SSP program. I mean,
15 it is the basis for the analysis. And if I can now move away from
16 answering your question based upon history, let's -- I'll bring it
17 to the present day and what we're working on at Amtrak.

18 One of our goals at Amtrak is to have 100 percent
19 downloadable data from our locomotives, every day, every train.
20 Now, we are a ways away from getting there because we have a lot
21 of locomotives that are in the process of being retired, like the
22 P42s. But ultimately our goal is to have a system safety database
23 that is funded by downloads from the recorders, the digital
24 recorders, on all of our locomotives, so that we can put that data
25 in a large relational database and have the ability to set up

1 parameters and monitor where we have outliers versus a standard of
2 operation, whether it's speed, stop signals or the like.

3 So data is so key because it's what gives you insight into
4 what's going on in the operation. So I agree with your statement.

5 Q. And another example that we discussed, I think, with Ken last
6 week, was you're looking at a lot of enforcement data that comes
7 out of the PTC oversight.

8 A. Yes, PTC enforcement data tells us how important PTC is, but
9 it also gives us an insight into how the railroad's operating, how
10 individual engineers are performing. And it gives us the ability,
11 then, to modify our operating procedures, our training procedures,
12 our qualification procedures.

13 It may be something as simple as putting up a big sign at a
14 turn to highlight to the engineer that he's got to slow down at
15 this turn. The point of it is, is it gives you the information
16 you need to scientifically approach a problem, put fixes in place
17 so it doesn't happen again.

18 And the PTC enforcement data is giving us that, both in terms
19 of individual engineer performance and system performance.

20 Q. Well, the example you just used is, in fact, one of the
21 improvements that was made on the Sound Transit property a month
22 ago.

23 A. Correct.

24 Q. Is that correct?

25 A. Correct.

1 Q. Okay. So here's one final thought about SMS or my view of
2 the SSPP, and that is, one expectation of those programs seems to
3 be that it is designed to identify and reduce risk or hazards.
4 And if that is a key element, then it seems to me that risk
5 assessments or risk analysis are expected and a key tool one would
6 use to mitigate or eliminate risk or hazard in the workplace, to
7 enhance safety for the employees and the traveling public.

8 How far off the mark am I with that?

9 A. You've stated it well. Now it's key -- the key is
10 implementation on a consistent basis every day across the
11 railroad.

12 Q. Okay. Just a couple more and see what we can talk about with
13 these. So one of the findings that was explained to us now, from
14 Amtrak's perspective, is that if you were to get a new request for
15 service -- I mean, a state reaches out to you and wants new
16 service, that is not routinely accepted as it was in the past.
17 Now Amtrak holds off until it first conducts a risk assessment or
18 analysis for that property and its operations.

19 Now, if that's true -- and I have no reason not to accept
20 that that's a valid change that Amtrak has made -- and knowing
21 that with the rollout of the SMS policy and the subsequent
22 development of a template to conduct a risk assessment or
23 analysis, please describe your vision of how much risk assessment
24 should be performed on Amtrak's property. So what I'm asking is,
25 the when, the where, and for what goal, and if you could address

1 how long you think that might take?

2 A. Well, we have completed a significant number of risk
3 assessments to date. And actually, the first -- one of the first
4 one's we assessed was about a year ago when we had a request from
5 a state to operate a summer service over a dark territory that we
6 had not operated before, and we turned down the request. We
7 turned down the request because we were in the midst of setting up
8 our SMS program and we still needed to get the risk assessments
9 done for all the non-PTC territory that we would be operating
10 after the implementation of the PTC system on the railroad, which
11 was, you know, at the end of last year. So we made a decision
12 that for a summer operation over a dark territory, our risk
13 assessment was don't operate it.

14 We made a second really significant change, permanently,
15 through our risk assessment process, and that's special trains.
16 We were often operating special trains, one-off trains operating
17 once, oftentimes on territory that wasn't our territory at all,
18 but it was going to be our equipment, under the control of Amtrak,
19 but with a pilot from another railroad. But we had no engineers
20 and no know-how on operating on that railroad.

21 The one I remember is operating -- the request to operate a
22 special train from Minneapolis, Minnesota to Duluth, Minnesota.
23 We don't operate on that subdivision. We don't have any
24 experience on that subdivision. And to operate one train up and
25 back, and to do a really good risk assessment -- not a railroad

1 risk assessment; I'm talking about a SMS risk assessment -- it was
2 too much, and we turned it down.

3 And so now we no longer operate one-off trains. And we don't
4 operate one-off trains because we cannot really do a good risk
5 assessment for a single train operation. So I would cite those
6 two instances where we've really changed the way -- permanently
7 changed the way Amtrak operates.

8 Because the problem we had with the special trains, even
9 separate and apart from that, is when we ran a special train, we'd
10 pull one or two road foremen off because you'd have to do so much
11 work to just get a special train in place that it would distract
12 us from running our scheduled trains every day. We need our road
13 foremen out on the railroad and our assistant road foremen being
14 mentors to our engineers, following up on PTC enforcements and the
15 like, doing the training. And these sorts of incidents were all
16 distractions, and so we stopped special trains and special
17 movements.

18 And I'd use the example, a year ago, of when we declined a
19 state that wanted to run a summer service, scheduled summer
20 service in a dark territory.

21 Q. Okay. And thank you for those examples. Those seem to be,
22 like, off of Amtrak property. And I want to bring you back to --
23 the essence of my question is for the rollout that you have with
24 your SMS and using a risk analysis, risk assessments as part -- a
25 key tool, where do you think you're at in just looking at your

1 property, Amtrak property?

2 A. Our property?

3 Q. Amtrak owned and operated. Can you talk about that?

4 A. I would say -- and I'd like to hear Ken and Theresa's view on
5 this; they're a bit closer. I would say that we're probably
6 halfway to where we need to be in terms of risk assessments.

7 You know, we have implemented 32 critical safety programs,
8 and I think we've provided the listing to you. But if you look at
9 -- and I'm sure we've probably provided our SMS cone, what I call
10 the cone chart, which is the --

11 Q. We do have that.

12 A. Yeah, and --

13 MR. HYLANDER: The roadmap.

14 MR. ANDERSON: Yeah, I call it the cone chart because it kind
15 of, you know, takes you up to the mature SMS. And we see
16 ourselves, late 2020, being, you know, fully implemented on SMS.
17 So I would say we are about halfway.

18 BY MR. HIPSKIND:

19 Q. Again, a multi-year effort?

20 A. Multi-year effort. What our board of directors approved was
21 a 3-year plan to implement SMS. And we are tracking well against
22 that. We completed all our accomplishments in 2018 and we're well
23 down the road in 2019. And in 2020, we believe we will be fully
24 implemented on SMS and have the capability to do our risk
25 assessments in those locations where the data tells us we have a

1 risk assessment that needs to be done.

2 Q. Okay. Well, that takes care of Amtrak's property, and I get
3 that, and the diagram was -- the roadmap was helpful. So let's
4 broaden maybe some of the application of Amtrak's SMS.

5 So if conducting risk assessments are important and one
6 should not -- and I don't -- one should not consider at risk
7 assessment or analysis the end-all or the one thing to structure
8 and build out a successful SMS, but still are very important
9 because of what it identifies and the hazards and risks that get
10 addressed and documented during a risk assessment effort.

11 So, if we accept that, what are your thoughts about an
12 outreach effort with the host railroads to engage, communicate and
13 coordinate with them in performing risk analysis, risk assessments
14 on their property? And I realize that there are issues with that.
15 And so I don't want to seem Pollyanna-ish about all of this, but
16 if you could speak to those challenges as well.

17 A. Right. Well, I think we've actually had pretty good
18 cooperation with the host railroads on performing our risk
19 assessments because we did all the risk assessments in the
20 territories that were not going to be equipped with PTC. So we
21 have -- when we are completed and completed revenue service
22 demonstrations and get certified across our system, we will still
23 have between 1,000 and 1500 miles of non-PTC territory on Amtrak.
24 And Ken and Theresa and Justin Meko have led an assessment of risk
25 mitigation across those parts of our system.

1 And I think we've overall had pretty good cooperation. They
2 have given us the kind of access and ability to put in our
3 mitigations. So I'd say, overall, constructive. You know, Ken
4 and Theresa and Justin will have a more granular view of that.
5 But we were able to complete -- and I'm sure that maybe you've
6 shared with them our risk assessment --

7 MR. HYLANDER: Um-hum.

8 MR. ANDERSON: -- on non-PTC territory.

9 MR. HYLANDER: We did.

10 MR. ANDERSON: So we were able to complete that. That was
11 pretty important for us.

12 BY MR. HIPSKIND:

13 Q. Okay. And without belaboring you for all the details of
14 that, I think my closing request, then, would -- to Amtrak would
15 be could we get a listing that would identify the non-PTC
16 territory? And that would give us some kind of a framework of the
17 Class 1's and other host railroads that you worked with.

18 And if you could kind of -- I don't know if that's going to
19 be documented in terms of date, but it will give us some idea of
20 the framework of some of that work that you've done. So --

21 MR. HYLANDER: Did we not share the matrix?

22 MS. IMPASTATO: We did.

23 MR. HYLANDER: We showed you the matrix. We may have given
24 it to you, but we can --

25 MS. IMPASTATO: We should update the list to include the --

1 MR. HYLANDER: And also the alternate schedule.

2 MS. IMPASTO: That's what was missing from the original list.

3 MR. HYLANDER: Yeah.

4 MR. HIPSKIND: Okay.

5 MR. HYLANDER: If it's okay to add, there were 1400 miles of
6 main line track exclusion, or the MTEA, that we did risk
7 assessments on. But then there were 2500 miles of alternate
8 schedule. In other words, when host railroads said they would not
9 be able to make the 2018 deadline, we had to do risk assessments
10 on all of that as well. So we did about 4,000 miles of risk
11 assessments.

12 MR. HIPSKIND: Okay. I was going to ask you for a
13 clarification.

14 MR. HYLANDER: Yeah.

15 MR. HIPSKIND: And I think you just gave it to me.

16 MR. ANDERSON: Yeah.

17 MR. HIPSKIND: Are there any others, Ken?

18 MR. HYLANDER: Regarding that topic, no. That's really it.
19 But we have a matrix that we have shared, that we can give you,
20 that says what we identified at -- so, first off, where are all
21 those areas and what have we identified as the mitigating actions,
22 what's complete, what's -- what are we working on still.

23 MR. HIPSKIND: Okay. A summary, then?

24 MR. HYLANDER: A -- yeah.

25 MR. ANDERSON: Yes.

1 MR. HYLANDER: Yeah, we can -- we may have to arrive at some
2 mean -- it's a spreadsheet, as you can imagine, that's huge, but
3 we can summarize that for you.

4 MR. HIPSKIND: Okay, that -- I think that would be helpful.

5 MR. HYLANDER: Yeah.

6 MR. HIPSKIND: Richard, great discussion, but we have Ryan
7 here and I know he's anxious to engage you, too.

8 MR. ANDERSON: Okay. Great.

9 MR. FRIGO: Great. Thank you, Dick.

10 BY MR. FRIGO:

11 Q. Richard, boy, I'll tell you, listening to you before, one of
12 the first questions I wanted to really ask you was, so good safety
13 is it good for business?

14 A. Oh, it's required. Because when you are in the passenger
15 customer transportation business, the first and foremost thing
16 that our customers rely upon when they think of what our product
17 is, is safety. And there is an implicit trust that you must honor
18 with your customers, and that implicit trust is we are safe.

19 And that is the first and foremost and most important
20 attribute of the product at an airline or in passenger rail or,
21 for that matter, any other transportation mode. That is the most
22 important attribute of the product. It's more important than any
23 other attribute of the product. And I think we saw it in aviation
24 in the '90s, when Delta and USAir both had a rash of accidents,
25 and I think it was probably demonstrably proven what effect that

1 would have.

2 But, moreover, you owe an important and the highest duty in
3 the law to the people that entrust their lives with you on a train
4 or an airplane. And it is just as fundamental -- it is the most
5 fundamental attribute of your product.

6 Q. This almost gets into a question of ethics, doesn't it?

7 A. Well, look, I mean, you can almost make anything a question
8 of ethics. First and foremost, you have a duty in the law. You
9 owe the highest duty in the law, number one. And, number two, if
10 you want this business to be successful at Amtrak, we have got to
11 run an incredibly safe operation for every passenger, every
12 customer and every employee. And that's just the bottom line to
13 being successful.

14 Q. I appreciate that. And, you know, again, what you mentioned
15 before was -- I found it to be extremely informative, your -- some
16 of your -- the recollection of some of the work that both you and
17 Ken did on the aviation side.

18 And one of the themes that I know we spoke to Ken about, that
19 I'd like to get your thoughts on, is enforcement versus
20 compliance. And how did that sort of relationship with the
21 regulator, how did that -- you know, did that assist this process
22 of maturing a safety system? Was it an impediment? If you
23 could --

24 A. It's really important to move past the enforcement and move
25 to the notion of a just culture, because data alone is not going

1 to give you all the information you need to understand both the
2 safety aspects and the operating aspects of your business.
3 Because the people that are doing it every day -- Amtrak is really
4 fortunate to have tens of thousands of really dedicated people.
5 If you go on the Amtrak system, you will find people that have
6 been -- in the vast, vast, vast majority have been dedicated
7 employees to this company for 30 or 40 years, and they take pride
8 in what they're doing.

9 In our customer surveys, our employees are the highest
10 positive rating of everything about our railroad. They're
11 eyewitnesses to what goes on in the operation every day. And data
12 alone will not give you everything you need to know about what it
13 takes to run a good railroad, whether it's safety, operations or
14 customer service. So you have to have them fully engaged, and the
15 enforcement approach is an approach that doesn't work.

16 What we think about with just culture -- and Ken just took
17 our board, the board of directors of Amtrak, through a long paper
18 we can share with you about how the just culture works. We want
19 everybody to fully participate in telling us what's going on on
20 the railroad. And the best example is we have a no-discipline
21 policy with respect to PTC enforcements. The freight railroads
22 have a discipline policy. And from time to time, our host -- not
23 just freights, but our host railroads want to disqualify our
24 engineers. And we stand up for our engineers and, in some cases,
25 will pay protect them and work to get to the root cause analysis,

1 whether it's more training or a problem with a signal or the like.
2 And we're going to be a better operator if we have that input.

3 That doesn't mean that drugs, alcohol, intentional conduct,
4 gross negligence, repetitive non-qualification are acceptable. In
5 fact, none of those things are acceptable. And the system, a just
6 culture won't tolerate those things. But you do have to live in a
7 world where, historically, Amtrak would discipline people for rule
8 violations, even when the rule violations were inadvertent or
9 negligent. And we need to move past that.

10 And we're moving past that. I mean, the cardinal rules are
11 going to be rescinded at Amtrak. And it's going to take time.
12 It's the same kind of evolution where behaviors, both on the part
13 of the union and management, have got to change from the last
14 several decades of how railroads interacted with frontline
15 employees.

16 Q. You know, Richard, I really appreciate that example between,
17 you know, your engineer and the powers that might be on a host
18 railroad with respect to -- I'll just -- I'll use the terminology
19 learning culture. Because what it sounds like you're attempting
20 to do is -- Amtrak is attempting to learn from the unusual
21 occurrence of that enforcement and, therefore, improve the system,
22 versus the immediate reaction on the host side to punish and
23 disqualify.

24 From the past few years and looking into some of the
25 incidents that have occurred in Amtrak, that difference in

1 thinking just seems to be more and more apparent. And I just
2 wonder, how do you view that that challenge to standardizing an
3 approach to managing safety when there is such a fundamental
4 disagreement between what Amtrak is trying to accomplish and,
5 seemingly, what the rest of the industry might be focused on?

6 Q. Well, the rest of the industry is in a fundamentally
7 different business. And remember that the FRA has specific rules
8 about what the punishment is for specific violations. So the
9 whole construct of the regulatory scheme has built into it that
10 punitive nature, and that's what needs to be changed for Amtrak.

11 I can't speak to other people's businesses. I'm just talking
12 about what we need to do at Amtrak. And much of this is within
13 our control. You know, we had, over the past 4 years -- I
14 actually have the data here -- we've applied the cardinal rules 73
15 times -- you know what the cardinal rules are -- and 44 employees
16 were dismissed. We have to change that, and that's what we are
17 about changing when we put in these new policies with respect to
18 PTC enforcement and, ultimately, evolving the enterprise. And
19 it's -- the evolution takes time.

20 We're moving pretty fast away from the regulatory scheme
21 where there's specific sets of penalties for specific events to an
22 engagement with the employees to understand what the root cause
23 failure was, whether our training program needs to be improved,
24 whether operating procedures need to be changed, whether an
25 individual employee needs more and more training or movement to a

1 different job.

2 We will be a much safer operation when we approach the 73
3 cardinal rule violations in the last 4 years in a non-disciplinary
4 approach, and then have a joint process with the labor union, the
5 employees, and all the affected employees around that employees
6 and the frontline management to get to a root cause.

7 And we actually gave our board a really great example of one,
8 which was a hidden signal on the Northeast Corridor. Have you
9 told them about this one? This is a good one.

10 MR. HYLANDER: Hitting the bridge, yeah.

11 MR. HIPSKIND: Yes.

12 MR. ANDERSON: Right. That's a classic example of, you know,
13 10 years ago -- the root cause analysis told you that the signal
14 was probably put up before the bridge. As a result, the engineer
15 can't see the signal until you're under the bridge. And a good
16 SMS analysis says, well, let's put the signal on both sides of the
17 bridge. And, historically, the engineering department would have
18 said, no, that's where the signal's always been, that's where the
19 -- you know, we're not going to get to that kind of root cause
20 analysis. And we cut through that, and we're going to put a
21 signal on both sides of the bridge. And I'll bet you, after we
22 put that signal on both sides of the bridge, we're not going to
23 have a violation anymore because everybody's going to be able to
24 see the signal.

25 And the engineer shouldn't be disciplined. The engineer

1 should be in a debrief where you have a discussion about what the
2 engineer saw. And engineer tells you, well, I can't see the
3 signal. Well, why can't you see the signal? Well, the bridge is
4 in the way. That is so commonsensical. A lot of this is just
5 pure common sense.

6 And part of what you're -- both on management and in the
7 labor unions, although I think the labor unions will probably, in
8 some respects, be more open to this than management at the lower
9 levels -- has just always been a Railway Labor Act approach with a
10 System Board of Adjustment and arbitration. And we've got to move
11 out of that for these kinds of violations. Not for drugs and
12 alcohol -- we have a much firmer policy now -- not for intentional
13 disregard, not for, you know, not complying with rules or theft or
14 criminal activity or the like, that's all excluded. A just
15 culture tells you you've got to be held accountable for that. But
16 in these areas of human error, we've got to move away from a
17 punitive approach.

18 And the -- even -- I mean, my view is, even if the FRA says
19 we've got to give a certain punishment, we're going to pay protect
20 the employee. We're not going to allow the FRA to keep us from
21 keeping that person on the payroll and letting him do other jobs,
22 because that's a mistake in the regulation. And they -- and we
23 should change this.

24 Q. You know, it's -- you kind of bring me into my next question,
25 which is, you know, how do you think the regulator can be more of

1 a collaborator with Amtrak to assist in this monumental shift in
2 thinking on safety?

3 A. Well, you know, actually we have a -- you know, FRA does a
4 good job with Amtrak in a whole variety of areas. And it's just
5 in this enforcement area where, even on the maintenance side of
6 the railroad and engineering side of the railroad, you know, they
7 issue these enforcement actions, and they pile up, and then at the
8 end of the year some people meet and pay a small percentage, and
9 then it starts all over again, rather than trying to go at the
10 root cause and having the FRA in the room.

11 I would recommend that the FRA spend time with the FAA
12 because the FAA went through this evolution. Nick Sabatini, Peggy
13 Gilligan, before that, Monte Belger. Ken can give you all the
14 names. You know, we went -- this path is -- this is a solved
15 problem. And the real question is -- and I'm only talking about
16 passenger railroads. I am not talking about freight railroads.
17 That's a different business, right? It's a very different
18 business. It's even sort of similar in aviation, there are some
19 rules that are different for freight airlines than for passenger
20 airlines. A lot more regulation when -- and, rightly so, and a
21 different regulatory regime for, you know, for customer airlines.

22 This is a trod path. It's a solved problem. It doesn't need
23 to be solved again. And what my recommendation would be, is for
24 the FRA to engage with the FAA and go down the path of SMS
25 implementation for passenger railroads. I don't -- I'm not a -- I

1 don't have experience in freight railroads. I have experience,
2 you know, at Amtrak.

3 We are going down this road no matter what, because we
4 believe, and I think the evidence will show, that the SSPP and our
5 SMS, consistent with what your recommendations were in November of
6 2017, tell us the path we have to go down to continue to improve
7 our safety performance. We are going down that path because we
8 have to go down that path. And we will go down that path within
9 whatever regulatory construct we have because what we're doing is
10 above that regulatory construct. It's -- you know, the SMS rule
11 at FRA was deferred. We were all supposed to have our plans filed
12 in November.

13 Perhaps maybe one of the ways is to separate passenger rail
14 from freight rail and to have a separate approach and have the
15 regulators really get much, much closer to the FAA and understand
16 how a more modern approach to safety would work, where you need a
17 higher level of safety with 300 souls on a train versus 125 cars
18 of coal. Very different businesses. The passenger business has
19 such a higher standard of care versus the coal business, that they
20 almost shouldn't sit under the same regulatory structure.

21 Q. And I completely agree with you, but there are times where,
22 you know, where that passenger train has to run on the
23 infrastructure --

24 A. It does. It does. And that's where I think we've been --
25 we've gotten, and then we'll go through this with you. You know,

1 I think that more and more of the freight railroads are cognizant
2 of that and they're being supportive of our efforts to do our risk
3 assessments separately. And we've had great relationships across
4 the freights on PTC implementation. They've been -- you know, at
5 the working level, really worked well with us.

6 Where I think the rub is going to occur with the regulator is
7 in this non-PTC territory. We want it to all be in PTC, so let's
8 be clear. Because there -- I think there are 200 -- a little over
9 200 FAST Act slow-down points or curves or speed points in the
10 dark -- in the 1400 miles of non-PTC.

11 I think -- Theresa, you did the analysis -- 230 or some
12 number like that?

13 MS. IMPASTATO: Yes.

14 MR. ANDERSON: Approximately. So you still have the same
15 demand for PTC in this territory. Well, we're going down the path
16 of getting funding from Congress to implement it. So we're going
17 to keep pushing to put PTC on 100 percent of where we operate.
18 But in the meantime, one of the ways that we can help solve that
19 problem is a PTC technology that uses geo-fencing. And we have
20 huge regulatory hurdles to getting this done in the head end of
21 our locomotives because of the FRA regulatory structure.

22 So if you can imagine a world where, until we got full-blown
23 PTC with trackside wayfinding that we could go to, and then, you
24 know, a pad device of some sort that has geo-fencing that could
25 alarm every time you got to a speed restriction or a signal -- in

1 other words, use the kinds of technology that we already have in
2 the world today. And, you know, from a regulatory standpoint we
3 can't do that because of the philosophy at FRA. And I think
4 that's a mistake.

5 I mean, in aviation, every pilot has a device in front of
6 them that has all kinds of important safety information in it.
7 And it makes the cockpit safer in aviation because you can get up-
8 to-date approach plates; you can go right to a maintenance manual
9 or an operating manual if you're in a difficult situation.

10 And we're in a regulatory regime that's still a regulatory
11 regime that's, you know, for a different time. We need a modern
12 regulatory regime that endorses the notion of SSP and SMS and
13 brings technology to bear -- simulation technology, data
14 technology, head-end technology -- so that we give our employees
15 all the tools that modern science has to make our operation safer.

16 Q. Yeah, modern technology to implement a safer and smarter and
17 more efficient railroad.

18 A. Exactly. Exactly.

19 Q. I like that.

20 A. Exactly. I mean, we haven't even talked about simulation.
21 We need big investment in simulation so that when you get to
22 something like qualification on the Point Defiance Bypass at 501,
23 we aren't solely relying upon getting enough of the engineers and
24 conductors on a train running back and forth, where we can qualify
25 people in simulators and give them exactly the same experience and

1 we can give them a dozen runs. But that standard would be
2 established by the Central Safety Department of Amtrak on what
3 it's going to take to qualify, and then this flight -- flight
4 standards -- train standards and training, centrally, would
5 establish what the simulator plan is and what the qualification
6 plan is going to be. And we use technology -- you can use PC-
7 based technologies to teach a lot of route qualification with
8 high-powered PCs, and then you can move into a motion simulator.

9 We don't -- the application of that technology, I think, has
10 been good at some of the freight railroads, but we have got to
11 apply that technology to a much greater extent at Amtrak.

12 Q. Thank you for this discussion. I have one more area that I
13 want to --

14 A. Yep.

15 Q. -- get your thoughts on. And you briefly mentioned it
16 before, but the -- how important is the collaboration with the
17 labor unions to this process? Because it's -- you know, the
18 Chester report was pretty clear on what was a tumultuous
19 relationship that existed at that time between labor and
20 management. And just as SMS implementation and just culture are
21 multi-year --

22 A. They are.

23 Q. -- challenges, so is changing a relationship. One might even
24 say it's generational. And I'm just wondering if you could speak
25 to that.

1 A. It's really important for our labor organizations to have,
2 within the organization, a safety department where they really
3 have safety professionals that are engaged with the company in
4 doing post-audit analysis of events, like PTC enforcement.

5 So we really need -- we can't do it effectively without the
6 labor unions being engaged. And that's going to take continued
7 work to build the trust with the labor unions that, in fact, we
8 are really serious about a just culture. I mean, I think the
9 impediments and the challenges -- the company has been through a
10 lot of safety programs, and we need this to be more than a -- this
11 isn't a safety program. This is a change in the way we do
12 business. It's a very different way for a railroad -- I'll lump
13 us in for just a minute with all railroads because we are company
14 emanated from the railroad industry in 1971. Railroads just
15 always had, and still do, if you look at the -- all the cases
16 under the Railway Labor Act -- I used to be a labor lawyer and I
17 used to do labor negotiations. So I have some experience in
18 running labor relations under the Railway Labor Act in the
19 aviation industry.

20 And the railroad industries always had a very antagonistic
21 relationship and, you know, relied upon system boards of
22 adjustment and arbitration to decide a lot of these issues. And
23 we've got to take Amtrak out of that.

24 There's still going to be arbitrations over contract
25 interpretation and drug and alcohol and terminations for

1 inappropriate behavior, intentional conduct, criminal conduct or
2 the like. But in the area of safety and operations, we have got
3 to make this evolution, or SMS and the SSP will not be effectively
4 implemented in order to continue to raise the level of safety and
5 drive down the numbers.

6 MR. FRIGO: Richard, thank you. Do you need a break or --

7 MR. ANDERSON: No, I'm good.

8 MR. FRIGO: Doing okay?

9 MR. ANDERSON: I've got to -- I have to break at -- I've got
10 to be in my car at 11:30 for -- so we've got about 30 minutes, so
11 I'd just keep moving through it.

12 MR. HIPSKIND: Ken, any clarifications on anything that Ryan
13 and Richard talked about?

14 MR. HYLANDER: No. I would just make the connection to when
15 Richard was talking about the technology and getting it in the
16 cab, that I believe he was referring to the work we're doing with
17 -- we called it Project Aware, and you were briefed on. You saw
18 the video that Theresa showed you.

19 And we're starting it with the conductor because we can do
20 that, but we can't put it in the locomotive without FRA approval.
21 So just -- the words didn't come out, so I would say that was the
22 Project Aware.

23 MR. HIPSKIND: Thank you for that distinction.

24 MR. HYLANDER: Yeah, just to make that connection to what
25 you've seen before.

1 MR. HIPSKIND: Mike?

2 DR. HOEPF: Thanks, Dick. And thanks for being here with us
3 today -- thanks for being here with us, Richard.

4 BY DR. HOEPF:

5 Q. So when we're talking about host railroad operations, I just
6 wanted to give you another chance to talk a little bit about that.
7 I think, you know, you talked with Dick with some of the risk
8 management practices you're implementing. But maybe you could
9 just talk about, you know, as an Amtrak train is going off of the
10 Northeast Corridor, you know, off the property you own, what do
11 you sort of see as being the key assurances for making sure that
12 people are getting from Point A to Point B?

13 A. Do you mean -- let me ask you, on a -- from a safety
14 perspective or from an operating perspective?

15 Q. From a safety perspective.

16 A. From a safety perspective?

17 Q. Yeah.

18 A. Well, first we have to have a strong cooperative relationship
19 with our host railroads. You know, except for the Corridor and a
20 little bit of Michigan, our 16,000 miles or so, whatever that
21 number is, of train tracks we operate on, the vast majority are on
22 host railroads. So we need a close working relationship in order
23 for our railroad to operate on those railroads.

24 Second, we need to have the ability to do these risk
25 assessments and take specific actions at our level of safety to

1 mitigate risks when our analysis tells us that there are steps
2 that could be taken on host railroads to make our operation safer.

3 And third, we need to get through this difference in PTC
4 enforcement, because we have a very different view of what happens
5 when one of our engineers or conductors makes a mistake out on the
6 railroad. And I think Ken and the team have been able to work
7 through that, by and large, but we're going to continue to need to
8 work through that.

9 So I would say it would be those three things.

10 Q. Okay, great. I appreciate it. Just something else I just
11 want to talk about at a general level. You know, an idea of --
12 and I don't want to be too much time on, you know, roadway worker
13 protection type of issues. But just at a high level, I'm curious
14 to get your perspective, when you talk about mixing trains and
15 workers.

16 A. Yeah.

17 Q. Amtrak trains, obviously, you know, generally travel at a
18 faster rate than freight railroads. And what's your kind of
19 approach to -- or thinking on that?

20 Q. Well, I've been out on the gangs, and it's a high-risk
21 endeavor. Put it that way. It's a high-risk endeavor to have a
22 four-track railroad, and if you're working on Track 1 and, you
23 know, Track 3, 4 are in operation.

24 So the first is going to be training and qualification.
25 Training and qualification are absolutely key to both the people

1 that manage the protection and then the people that are working on
2 the gangs. The second thing is procedures in getting -- making
3 certain we have all the right procedures, which I do think we have
4 the right procedures. And the third piece is getting everybody to
5 comply. In other words, getting people -- which is always the
6 human factor, which you've studied and you've spent, you know, an
7 academic career studying human factors. How do you get rid of
8 those levels of complacency?

9 When you have the right training, you have the right
10 procedures, you qualify someone, they've passed all the training,
11 passed all the tests, they have all their PP&E on, they're drug
12 and alcohol-free -- or at least we have done everything we can to
13 make sure they're drug and alcohol free, because after Train 91,
14 we stepped up our testing significantly. And then there is that
15 complacency of everything goes right, but someone doesn't get out
16 of the way. I think it's a real challenge.

17 We were hopeful that there was a technology that could help
18 us, you know, by having each one of the people on the gangs wear
19 some sort of transponder. I know some railroads had experimented
20 with that. The challenge we found is, is that in a close
21 proximity, you know, where you got four tracks, it's hard to make
22 the technology work.

23 So it goes back to training, qualification, retraining,
24 having the right procedures in place, having strong leadership on
25 the crews so they're doing their safety briefings and their

1 handoffs appropriately, and that you're getting good compliance
2 and that we have -- we really put the implements of SMS in place
3 to constantly being -- doing risk assessments. And when we do
4 have situations that perhaps would be a violation of our
5 procedures, we hear from the people involved in a no-discipline
6 approach to find out what we can do better to make sure we don't
7 have a problem.

8 I mean, it's a significant issue to be out there working on
9 the railroad and at the same time having -- you know, because the
10 Corridor runs 2100 to 2200 trains a day in the Corridor. That's a
11 lot of trains. And it's -- you know, they're moving 700- to
12 800,000 people a day up and down the Corridor, where there's 10
13 railroads that we dispatch, plus -- that's passenger railroads.
14 That doesn't count the freight railroads.

15 So it's a big complicated operation. And I think the
16 training, qualifications, correct procedures, correct PPE, correct
17 staffing, and a good SMS overlay of always assessing where the
18 risks are, are keys to mitigating the two problems that we've had,
19 Train 89 and then the Bowie fatality.

20 Q. Right. Right. And just briefly, I understand you guys have
21 hired an engineering consulting firm to take a look at speed
22 around construction zones. I'm just wondering, is there a reason
23 you guys decided -- opted to pull in some outside analysts on
24 that?

25 A. Well, I think we hired -- who'd you hire?

1 MR. HYLANDER: LTK.

2 MR. ANDERSON: LTK, yeah. We brought LTK in to do that
3 assessment for us, which is appropriate, you know.

4 BY DR. HOEPF:

5 Q. Yeah, no. I didn't mean to -- it's not a value judgment or
6 anything. And if you're not, you know, familiar with the
7 rationale behind that, don't -- you know, you don't need to
8 speculate or anything. I was just wondering --

9 A. Well, no, the rationale -- I do know the rationale behind it.
10 Because after the last accident, you know, the accident in Bowie
11 last year, you know, we restricted the speeds to 60 miles an hour,
12 but we needed to have a more thoughtful data-driven approach to
13 that decision making.

14 We really reacted, in part, to the tragedy that we had. And
15 now we want to go down a path of doing more scientific and
16 deliberate analysis of what is the appropriate way to manage that
17 risk. So, hence, bringing the engineering firm on board.

18 Q. Great. Sounds -- it makes sense. I appreciate that.

19 Last question for you. And from -- my boss here couldn't be
20 here today, but he's really interested in occupant protection, and
21 I just wonder what's your thinking on that, what are the key
22 advancements you'd like to see in an area?

23 A. Well, my advancement would be -- people will cringe when I
24 say this, in the railroad industry, but, I mean, I would study
25 whether seatbelts make sense or not and whether you ought to have

1 a standard going forward of having a seatbelt in a 16 GC.

2 I would look at it. I don't know -- I've heard debate on
3 both sides of the issue, that maybe it doesn't make sense. But I
4 would do the analysis. I would do the study. And I'm sure you've
5 probably done studies on buses, in school buses, in particular,
6 with seatbelts. They may not have the same applicability that
7 they do in aviation, but when I look at 501, you have to
8 legitimately ask yourself the question whether that would make a
9 difference or not, and what are the hazards of having a seatbelt
10 on a train, because I think there may be some hazards. But after
11 walking through those -- through the cars up at the military base
12 or walking, you know, inspecting the cars after 501, at least you
13 ask the question.

14 The second thing is, is that normal crashworthiness testing,
15 I'm certain, is standard. I'm not familiar with what the FRA
16 standards are for certification. But the second part of that is,
17 you know, good crashworthiness testing for human survivability,
18 and that that would be an important part of the certification
19 process of passenger cars.

20 DR. HOEPF: Okay, great. Thank you so much, Richard.

21 MR. ANDERSON: You bet.

22 MR. HIPSKIND: Thanks, Mike.

23 Richard, I know we've got a limited number of minutes here,
24 so I'm going to jump around and then we can --

25 MR. ANDERSON: Yep.

1 MR. HIPSKIND: -- have your final remarks or closeout.

2 Oh, excuse me. Theresa, do you have any questions?

3 MS. IMPASTATO: I have no questions.

4 MR. HIPSKIND: Okay, thank you. I just want to sew up a
5 couple of loose ends here.

6 MR. ANDERSON: Sure.

7 BY MR. HIPSKIND:

8 Q. We had a discussion about some of the new technology and
9 giving some advance warning to Amtrak crews, and, as Ken -- we
10 talked last week -- it doesn't seem to be a problem with the
11 conductor. And he's basically in a tube, and how can he really
12 know where he's at. So I thought that was very useful. And I
13 look forward to some data being created and I think that's fairly
14 exciting.

15 And I just want you to, for the record, to -- let's pinpoint
16 the reason and state why it is that you can't have it up in the
17 locomotive cab. Is it a matter of distraction or is it just some
18 interpretation of they're looking at this device as a personal
19 device? But doesn't it still come back to a distraction concern
20 by FRA? Is that really what we're talking about here?

21 A. Yes.

22 Q. Okay. All right. And one other thing. When I was listening
23 to you with your aviation examples, and FRA -- forgive me for
24 saying this, but it sounded to me like you were characterizing FAA
25 as being fairly communicative and open and providing guidance.

1 A. Yes.

2 Q. And I'm not trying to pit you against FRA. Are you getting
3 that same level that you have -- from FRA that you experienced in
4 FAA?

5 A. Not at my level. Not at the CEO level, the way I did -- I
6 mean, I have a good relationship with the head of the FRA -- a
7 really good person. But to contrast where we were in aviation,
8 typically I would see the administrator of the FAA two to three,
9 sometimes four times a year. And at each one of those sessions --
10 Ken was often with me, and we would just go in and ask, how are we
11 doing? Here's what we're worried about; what are you concerned
12 about, about us? What direction do you have for me in leading the
13 airline and what can -- how can I be better, from a regulatory and
14 a safety perspective? What are your indicators telling you about
15 our performance?

16 And then we did the same thing with our -- the regional
17 administrator over the CMO. The CMO was the Certificate
18 Management Office, and every airline had a CMO. And you had a
19 POI, principal operations inspector, and a PMA, a principal
20 maintenance -- PMI, principal maintenance inspector.

21 And we would meet once every couple of months with the
22 regional administrator over our CMO, and we would just go through
23 our numbers together and get feedback from them on where they
24 think we had vulnerabilities. Because, at least at the FAA, they
25 have a pretty good database of their own that could help you find

1 indicators. And we wanted their perspective as much as we wanted
2 to develop our own perspective because they had 50 or 60 full-time
3 inspectors on our company. They were seeing things, and they were
4 putting all those things in their database and their database
5 could have rich information that would help us.

6 And then we had, you know, our usual ASAP/FOQA meetings where
7 the FAA sat in on all those meetings, where we were with the
8 union, with the FAA, with the company, looking at incident data,
9 looking at FOQA data. And when we did have an incident, everybody
10 would be in the room together trying to figure out root cause
11 analysis and corrective action.

12 So very different than what we have here. Maybe Theresa or
13 Ken can talk more to the specifics of how we deal with FRA day to
14 day, but at my level, that's the difference.

15 Q. Okay. Well, just one more question. I want to drill down on
16 this. So when at Amtrak, you guys ramped up and developed your
17 program -- and I understand that there was a little bit of a head
18 start because of your relationship and some requirements from the
19 Canadian experience; you've got a little bit of railroad up there.
20 But when you were putting words on the page and going down your
21 checklist of what should be included in this program -- and I've
22 read it, and it's like 70 pages -- but one of my curiosities is
23 did you have any formal document guidance from FRA about, well, be
24 sure to put this in there, be sure to address this? Did you have
25 anything like that to work off of?

1 A. I don't know. I'd have to defer to Ken on that.

2 MR. HIPSKIND: Ken, would you --

3 MR. HYLANDER: I knew what needed to be in there.

4 BY MR. HIPSKIND:

5 Q. Well, I -- no -- oh, I get that. I want to make a comment
6 about that. In talking to you, just today, it seems to me that
7 you're adamant, you're going forward with your version of SMS,
8 your SSPP, regardless of the regulatory content or whatever
9 regulations come out.

10 A. Well, no, we will comply. So they had an NPRM.

11 MR. HYLANDER: Right.

12 MR. ANDERSON: Right?

13 MR. HYLANDER: Right.

14 MR. ANDERSON: And we complied with the NPRM. And we filed
15 our plan with the with the FRA. It's just that they haven't made
16 a decision yet on SMS, a final decision, and issued a final rule.
17 My bet is, is they continue to defer it because there may not be
18 wholesale agreement across all railroads that this is something
19 that ought to be done.

20 But we don't have a choice. We followed their guidance in
21 the NPRM. And we just made sure it conformed over and above that.
22 It gave what I would call a minimum standard of what had to be in
23 the program. We covered that, but we're going above that, because
24 we have a simulator plan, we have a data plan, you know, we have
25 -- just culture is a is a big, big change over and above anything

1 that they have in their in their guidelines. So --

2 Q. Well, I find a need to clarify my own remarks. And I think
3 I'm best to do that, but regardless, I already sense that your
4 program is -- probably meets or exceeds the minimum standard. So
5 what I probably didn't actually say, was in my head is, you're not
6 paring back your program --

7 A. Oh, no. No, no, no.

8 Q. -- to a minimum standard if a regulation comes out?

9 A. No.

10 Q. Okay.

11 A. All the NPRM does is set the minimum standard. We have an
12 obligation to go -- in my view, our obligation, as a common
13 carrier of human beings, our obligation transcends the basics of
14 what's in an FRA NPRM. We have to go above that. That's just a
15 minimum.

16 And we already have gone above that with our simulation plan,
17 our data management plan, and all the resources that we've applied
18 to our risk assessments, PTC, 100 percent -- advocates for a 100
19 percent PTC in the U.S. That's above the legal standard. And,
20 for Amtrak, we are going to be at 100 percent PTC or PTC
21 equivalency -- hence, my points about Project Aware -- so that we
22 can continue to move up the scale in terms of using technology to
23 make the railroads safer.

24 Q. Yeah, and although -- today's discussion, we've talked about
25 risk assessments that Amtrak has worked with the host railroads on

1 non-PTC. I just want to make the distinction that when PTC is 100
2 percent, and especially on your host railroads where you're
3 running trains, that does not remove all the risk that you may
4 look after. It just takes away an awful lot of the big
5 operational human fatigue and error type stuff. Is that --

6 A. Yes, that's correct. That's correct.

7 Q. So it's still a goal, maybe, that risk assessments are
8 conducted; it just won't have to focus in on, maybe, so much what
9 PTC is already managing?

10 A. Well, PTC will give us continual indicators of specific
11 situations that we need to do analysis to determine whether we
12 have more work to do down the road to mitigate risks.

13 As more sophisticated equipment also comes online, like the
14 Charger locomotives, and we're going through this Amfleet
15 replacement process now that may end up with our purchasing DMUs,
16 you know, train sets, that technology has a lot of sensor
17 capability to let you know more about what's going on, on the
18 railroad you're on and on the train itself.

19 So PTC -- look, PTC is so important. Don't get me wrong.
20 The four events it's designed to prevent are a big portion of
21 where the risk lies in this business. But I think PTC will
22 continue to be a source of data and information to guide our SMS
23 program.

24 MR. HIPSKIND: Okay. Let me -- Ken, do you have any
25 clarification to make?

1 MR. HYLANDER: Regarding that or anything?

2 MR. HIPSKIND: Just anything in general.

3 MR. HYLANDER: Well, there's a couple things. First, as any
4 good boss should, when Richard discussed the SMS and maturity 3-
5 year program, that's clearly what we've told our board. I think
6 when I talked about SMS with you, we talked about a continuous
7 evolution. And I think part of that is because there is no
8 definition of a mature SMS; where, as Richard mentioned, the
9 airline industry had a level -- well, he didn't -- the Level 1, 2,
10 3, 4, and we were sort of the first to charge through that with
11 the FRA. So we had a very specific plan.

12 MR. ANDERSON: The FAA.

13 MR. HYLANDER: Excuse me, FAA. So, you know, we intend to
14 continue to update our roadmap and continuously improve it. So
15 the definition of a mature SMS is not out there. So I just wanted
16 to make that clarity.

17 MR. HIPSKIND: And I understood that distinction --

18 MR. HYLANDER: Okay.

19 MR. HIPSKIND: -- from your interview, yes.

20 MR. HYLANDER: Then there was just two -- well, there's two
21 other points. Richard mentioned OSHA, and I think he said a VPN.
22 It's actually the VPP.

23 MR. ANDERSON: VPP.

24 MR. HYLANDER: Voluntary Protection Program that Delta was
25 involved in.

1 MR. ANDERSON: Yes. Thank you.

2 MR. HYLANDER: And then I picked up on a mention of 1987 as a
3 recruitment date for me. It was actually 1997 --

4 MR. ANDERSON: Yeah, that's right.

5 MR. HYLANDER: -- into Northwest.

6 And then I don't know the -- there's one -- when Richard was
7 discussing train operating data and the importance of it, I don't
8 know as we had the opportunity to put into the record anywhere our
9 desire and willingness to work with the FRA on what they're
10 calling Project RISE, which is run out of their R&D department,
11 where we believe they're anxious and we're -- and we have
12 volunteered to be a pilot with them on train operating data and
13 working on sharing, and very similar to the aviation world of the
14 ASIAs program. And we have offered that to them.

15 And I just -- I don't think we talked about that. And
16 Richard did bring up the train operating data piece as critical
17 important. And we see that as a great opportunity with the FRA.

18 MR. HIPSKIND: And is RISE an acronym?

19 MR. HYLANDER: It is and --

20 MR. HIPSKIND: And it stands for?

21 MR. HYLANDER: -- I wish -- I was afraid you would ask me
22 that.

23 MS. IMPASTATO: Rail Information Sharing Environment.

24 MR. HIPSKIND: Okay.

25 MR. HYLANDER: There you go.

1 MR. HIPSKIND: And while I'm on this topic of acronyms, I
2 made a decision very early on in this interview not to interrupt
3 everybody's questions and comments based on the use of acronyms.
4 But one thing I would ask, when you get the hardcopy, if you will
5 please, in your errata sheet, where you see some of these, if you
6 would just do me the kind favor of listing the acronym and
7 spelling it out so we can include it for the record, for the
8 public.

9 MR. HYLANDER: Yep. Then the --

10 MR. HIPSKIND: You all knew what you were talking about.
11 Sometimes I knew what you were talking about, but in fairness to
12 them, I would like that, make that --

13 MR. ANDERSON: We are a world of acronyms, aren't we?

14 MR. HIPSKIND: Well, we all are. So --

15 MR. ANDERSON: We all are, right.

16 MR. HIPSKIND: If nothing else --

17 MR. HYLANDER: One other --

18 MR. HIPSKIND: Okay.

19 MR. HYLANDER: Richard mentioned increasing drug and alcohol
20 testing after Train 91. I believe you meant Train 89.

21 MR. ANDERSON: Train 89.

22 MR. HYLANDER: Right.

23 MR. ANDERSON: Right, I got confused.

24 MR. HYLANDER: Where were the engineer and several employees
25 had --

1 MR. ANDERSON: We raised our random sample size
2 significantly.

3 MR. HYLANDER: Yeah, so just to clarify the record on that.

4 MR. HIPSKIND: He said 91. I knew he meant 89.

5 MR. HYLANDER: Yeah, right. Okay.

6 MR. ANDERSON: 89. Too bad we've got a number of those to
7 keep in mind.

8 MR. HYLANDER: Okay, that's all --

9 MR. HIPSKIND: Anything else, Ken?

10 MR. HYLANDER: No. That's all I have. Thank you.

11 MR. ANDERSON: Good. Good.

12 MR. HIPSKIND: All right.

13 MR. ANDERSON: Can you reflect all those corrections to my
14 testimony?

15 MR. HIPSKIND: I think we've got -- there wasn't that many to
16 correct. Just anything else, briefly, from anybody?

17 All right, are you ready, we'll close this out?

18 MR. ANDERSON: Yeah, that'd be great.

19 MR. HIPSKIND: Okay. So, Richard, well, is there anything
20 that you would like to add or change? And I think Ken took care
21 of quite a bit of it.

22 MR. ANDERSON: Ken took care of all that.

23 MR. HIPSKIND: Okay.

24 MR. ANDERSON: I'm good to go.

25 MR. HIPSKIND: And are there any questions that we should

1 have asked, but did not?

2 MR. ANDERSON: That's a good question. Trying to think about
3 it a minute. Oh, maybe that the question about the support of the
4 board of directors and the resources of Amtrak, and do we have
5 everything we need from our board, and do we have the resources we
6 need to continue the SMS journey? And I would answer that by
7 saying that the board has been incredibly supportive, that the
8 notion of 100 percent PTC on Amtrak emanated from a conversation
9 with the chairman of our board right after 501. And the board's
10 been, in every aspect of our safety and operations, engaged
11 supportive and there's not been a constraint on our resources to
12 be able to implement the program.

13 So I think that's important to know, what the tone at the top
14 is, and the tone of top, at our board, is -- they're very engaged.
15 They want to know and they want to support because they know how
16 important it is to Amtrak to have a world-class safety program and
17 SMS.

18 MR. HIPSKIND: Thank you for that. And in one of the
19 interviews I was made aware, our team was made aware, that you've
20 recognized that, they've accepted it, they're supporting, and that
21 you're helping -- listen, this -- some of this SMS, SSPP, and all
22 that, is new to a lot of people who don't have these backgrounds,
23 and I know that you're helping them out with some training on
24 that, so we appreciate hearing that too.

25 And if nothing else, I will just say thank you, sincerely --

1 MR. ANDERSON: Thank you.

2 MR. HIPSKIND: -- for your time and for your comments today.

3 MR. ANDERSON: Yep. And thank you all for your service.

4 MR. HIPSKIND: You're welcome.

5 MR. ANDERSON: We appreciate it. It's really helpful to us
6 when receive your reports. We keep an ongoing list of our
7 performance against your recommendations, and we look forward to
8 receiving your recommendations in these cases so that we can
9 continue to advance the implementation of our SSP and our SMS.

10 MR. HIPSKIND: Great. Thanks again.

11 MR. ANDERSON: Thank you.

12 (Whereupon, the interview was concluded.)

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CERTIFICATE

This is to certify that the attached proceeding before the

NATIONAL TRANSPORTATION SAFETY BOARD



IN THE MATTER OF: COLLISION OF AMTRAK TRAIN #91 AND
A STATIONARY CSX TRANSPORTATION
TRAIN NEAR CAYCE, SOUTH CAROLINA
FEBRUARY 4, 2018
Interview of Richard Anderson

ACCIDENT NO.: RRD18MR003

PLACE: Washington, D.C.

DATE: April 1, 2019

was held according to the record, and that this is the original,
complete, true and accurate transcript which has been transcribed
to the best of my skill and ability.



Kimberlee S. Kondrat
Transcriber