1	IN THE UNITED STATES DISTRICT COURT		
2	FOR THE NORTHERN DISTRICT OF TEXAS		
3	FORT WORTH DIVISION		
4			
5	UNITED STATES OF AMERICA,) CASE NO. 4:21-cr-00268-0-1		
6	Government,) FORT WORTH, TEXAS		
7	VS.) March 21, 2022		
8	MARK A. FORKNER,		
9) Defendant.)		
10			
11			
12			
13	VOLUME 2 TRANSCRIPT OF JURY TRIAL		
14	BEFORE THE HONORABLE REED C. O'CONNOR UNITED STATES DISTRICT COURT JUDGE		
15	UNITED STATES DISTRICT COURT DUDGE		
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1	PROCEEDINGS
2	March 21, 2022
3	000
4	THE COURT: Okay. Please be seated.
5	All right. I've looked at you all's briefings,
6	pleadings, the briefing that you all filed, and after
7	reviewing it and listening to the opening statements, I've
8	determined that disclosures to the FAA and internal FAA
9	communications, as they were conveyed to Ms. Klein, are
10	relevant to the extent that they show that the information
11	at issue was material.
12	The government is correct that the communications
13	are not probative of the defendant's intent. So for that
14	reason, I find that a limiting instruction on the
15	materiality in communications is appropriate and will
16	instruct the jury to consider the communications for that
17	purpose.
18	As it relates to the crashes, I find that brief
19	information about them are relevant to the materiality of
20	the information that Ms. Klein considered, and so I will
21	permit limited discussion of the crashes for that purpose
22	with her.
23	I will reserve judgment, though, on the
24	admissibility of the defendant's expert witnesses until
25	after the close of the government's case. So that's my

1	ruling.
2	MR. GERGER: Your Honor, and we would invoke the
3	rule, but those two experts are in the courtroom, and I
4	would ask that they be allowed to stay.
5	THE COURT: Yeah. Okay.
6	MR. JACOBS: Yeah, we would object to that, your
7	Honor.
8	THE COURT: You object to which part?
9	MR. JACOBS: To having the witnesses stay in the
10	courtroom.
11	THE COURT: Yes, the expert witnesses stay in the
12	courtroom or?
13	MR. JACOBS: Except for the experts.
14	THE COURT: Yeah, right. I think that's what he
15	said. So do you all have experts in the courtroom? Just go
16	ahead and bring them.
17	MR. JACOBS: We do not, your Honor.
18	THE COURT: I mean, do you have witnesses in the
19	courtroom?
20	MR. JACOBS: Not to my knowledge.
21	THE COURT: And do you have witnesses in the
22	courtroom?
23	MR. GERGER: Only those two.
24	THE COURT: Okay. So
25	MR. JACOBS: Your Honor, I just have the case

1	agent and the case agent will be at the table with us.
2	THE COURT: Yeah, right. That's okay. So what I
3	will need you to do, then, is to communicate the rule to
4	your witnesses so that they, from this point forward, are
5	complying with the rule.
6	MR. JACOBS: Will do.
7	THE COURT: And you, too.
8	MR. GERGER: Yes, your Honor.
9	And then we all saw this morning's news about a
10	737. It was not a MAX. I don't know if your Honor would
11	instruct the jury it was not a MAX, but
12	THE COURT: You tell me what you want. What is it
13	that you request?
14	MR. GERGER: What should we ask
15	THE COURT: Because they're on their way, so
16	MR. KEARNEY: Just that it was not a MAX.
17	MR. GERGER: Just that it was not a MAX.
18	THE COURT: So I will tell the jury that there
19	have been news reports that there has been an airplane
20	crash, that tentative reports indicate that it may be a
21	Boeing aircraft, but that it is not a 737 MAX airplane.
22	MR. GERGER: Thank you, your Honor.
23	MR. KEARNEY: Thank you, your Honor.
24	MR. JACOBS: No objection.
25	THE COURT: Do you have a witness?

1	MR. JACOBS: We do, your Honor.
2	THE COURT: Let's get him up here.
3	MR. JACOBS: Your Honor, may I just ask a few more
4	things?
5	We also submitted to the Court the unopposed
6	request for the motion for instruction from the Court to the
7	jury about the plane crashes.
8	THE COURT: Yes.
9	MR. JACOBS: I'm just asking if you would consider
10	perhaps giving that to the jury in this case?
11	THE COURT: I will do that right now.
12	MR. JACOBS: Thank you, your Honor.
13	And then the other thing that I would ask, too, is
14	if your Honor would consider just letting the jury members
15	know that when we see them in the hallway, around the
16	courthouse and we don't talk to them, we're not trying to be
17	rude.
18	THE COURT: Yes. I will do that right now.
19	MR. JACOBS: And then there's one other thing that
20	we were talking to with the Court last week was the
21	redaction to certain exhibits.
22	THE COURT: Yes.
23	MR. JACOBS: I think we've come to an agreement
24	with respect to those redactions.
25	THE COURT: Very good. Just proceed. Just you

```
1
     all act like that's acceptable with me.
 2
               MR. JACOBS:
                            Thank you, your Honor.
               THE COURT: Okay. So I will give those three
 3
     instructions.
 4
 5
               MR. JACOBS:
                            Thank you, your Honor.
 6
          (The jury was brought into court.)
 7
               THE COURT: Okay. Please be seated. All right.
     Thank you all very much, ladies and gentlemen.
 8
                                                     Just a
 9
     couple of housekeeping measures.
10
               The first one is, there are a lot of people
     involved in this lawsuit, and you all will be coming and
11
12
     going at the end of the day and at the beginning of the day,
13
     at breaks, lunch, and so you may encounter people connected
14
     with this case during the day in your comings and your
15
     qoings.
               They are not going to even politely say, "Good
16
17
    morning, or, "How are you doing," or, "What about this
18
                They're going to act as if they don't know you,
19
     and they're going to pretend like they're from New York or
20
     somewhere where they don't exchange pleasantries, right?
               Here we exchange pleasantries, even with people we
21
22
     don't know, but they're not going to do that in this case.
23
     So please don't take that as a sign of disrespect or
24
     discourteousness, because it's not that way at all.
25
     everybody associated with this case is working very hard on
```

the case and wants to avoid even the appearance of 1 2 impropriety. 3 And so, if someone were to see you exchanging pleasantries with someone involved in the case and they 4 5 weren't involved in that conversation, they might be concerned that you're thinking -- that you're actually 6 7 talking about the case and so that's why. So if you see people in the hallway and they duck 8 9 their heads and avoid eye contact with you or don't get on 10 the elevator with you, that's the reason. And that's pursuant to my direction to the participants. 11 That's not even something that they brought up. So please take note of 12 13 that. 14 Second, there has been a report, a news report 15 today, of an airplane crash that may or may not be a Boeing These are preliminary reports. But what is 16 aircraft. 17 certain, I think, that we all agree that it is not a 737 18 MAX, which is what we're -- the subject matter that we are 19 dealing with here in this courtroom. 20 Again, avoid all news coverage that might talk about airplanes and Boeing and this lawsuit, but you need to 21 22 know that any report that has taken place today has nothing 23 to do with the 737 MAX. 24 Anything else we should take up? 25 MR. JACOBS: Other than the two other charges.

1	THE COURT: No, I'm going into that.
2	MR. JACOBS: Thank you. Other than that, nothing
3	on that.
4	THE COURT: Very good.
5	MR. JACOBS: Thank you.
6	THE COURT: All right. Now, the next instruction
7	I need to give you is that in this lawsuit, the government
8	does not allege that Mr. Forkner caused any plane crash.
9	Mr. Forkner is not charged with causing any plane crash. He
10	is charged with four counts of wire fraud.
11	Your job as jurors is to determine only whether
12	the government has proved, beyond a reasonable doubt, that
13	Mr. Forkner committed those wire fraud offenses.
14	And so, you are otherwise to follow my
15	instructions as it relates to this case as we go forward,
16	but keep that in mind as the evidence unfolds.
17	Now, finally, one of the things that you will be
18	called upon to make a determination on is an element of wire
19	fraud that is known as "materiality."
20	I will give you other instructions about all of
21	the elements at the at the conclusion of the evidence,
22	but I want you to remember and this will be in the final
23	instructions that you get at the end of the day, at the end
24	of the case.
25	But I want you to remember, as we go along, that

1	in determining materiality, you should consider that
2	naiveté, carelessness, negligence, or stupidity of a victim
3	does not excuse criminal conduct, if any, on the part of the
4	defendant.
5	So please remember these instructions as we go
6	through the case. And again, I'll repeat those to you,
7	probably periodically, as we go through the case, but
8	certainly in the final instructions that you get when you go
9	back to deliberate on your verdict.
10	So thank you all for being here this morning. We
11	are ready to go.
12	The Government can call its first witness.
13	MR. O'NEILL: Thank you, your Honor. The United
14	States calls Kent Byers to the stand.
15	(The oath was administered.)
16	THE COURT: Be sure and speak up good and loud so
17	everyone can hear what you're saying.
18	THE WITNESS: Yes, your Honor.
19	DIRECT EXAMINATION
20	BY MR. O'NEILL:
21	Q. Good morning.
22	A. Good morning.
23	Q. Would you please state your full name and spell it
24	for the record?
25	A. Certainly. My name is Kent Byers. My name is

1	spelled K-e-n-t, last name B-y-e-r-s.
2	Q. Where do you work, sir?
3	A. I work for the U.S. Department of Transportation,
4	Office of Inspector General, Midwestern Regional Office
5	Investigations.
6	Q. And what is the Department of Transportation,
7	Office of Inspector General?
8	A. So the Department of Transportation, Office of
9	Inspection General, DOT OIG, as we often call it for short,
10	is an agency charged with investigating allegations of
11	fraud, waste, and abuse pertaining to DOT's programs,
12	operations, and contracts and things of that nature.
13	Q. And, sir, if I could ask you to speak up a bit and
14	maybe position yourself a little closer to the microphone so
15	we can all hear you.
16	A. Sure.
17	Q. Thank you. That's better.
18	What is your job at the DOT OIG?
19	A. I'm a Special Agent, currently serving as the
20	Assistant Special Agent in Charge, or ASAC.
21	Q. Would you please tell the jury a bit about your
22	path to your current role as ASAC?
23	A. Sure. I started about 24-plus years ago as a
24	special agent with a different agency, and then came to the
25	Department of Transportation, Office of Inspector General in

1	2001, working a variety of investigations relating to fraud,
2	waste, and abuse; particularly a lot of fraud cases.
3	And then, for the last three years, I've been
4	serving as an ASAC supervising other agents and, you know,
5	working with other law enforcement agencies as well, so
6	Q. So you mentioned you work on fraud investigations.
7	As part of your job, do you work on investigations of
8	criminal fraud?
9	A. Yes, we do.
10	Q. Did you work on the criminal investigation of this
11	case?
12	A. Yes.
13	Q. Did you work with any other federal law
14	enforcement agents on this investigation?
15	A. We did, yes.
16	Q. Did you and your team collect documents as part of
17	this investigation?
18	A. Yes.
19	MR. O'NEILL: Your Honor, may I approach the
20	witness?
21	THE COURT: Yes.
22	BY MR. O'NEILL:
23	Q. Special Agent Byers, I've just handed you a binder
24	of materials. Have you had a chance to review the contents
25	of this binder before trial?

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1	Α.	I have, yes.
2	Q.	Does it contain documents?
3	Α.	It does.
4	Q.	Did you and your team obtain all of these
5		in the course of your investigation?
6	A.	We did.
	- -	
7	Q.	Generally speaking, how did you obtain them?
8	Α.	So these documents were obtained by way of
9	subpoena a	and record request, generally speaking.
10	Q.	I would like to direct your attention in your
11	binder, fi	rst, on a series of exhibits marked for
12	identifica	ation and there are a number of them, so I will
13	go through	the series marked for identification as
14	Government	Exhibit 1.
15	A.	Okay.
16	Q.	Government Exhibit 2.
17	A.	Yes.
18	Q.	Government Exhibits 4 through 8.
19	A.	Okay.
20	Q.	Government Exhibit 10.
21	A.	Okay.
22	Q.	Government Exhibits 11 and 11A, as in "apple."
23	A.	Okay.
24	Q.	Government Exhibits 12 through 17.
25	A.	Yes.

1	Q. Government Exhibit 19.
2	A. Yes.
3	Q. Government Exhibits 21 through 23.
4	A. Okay.
5	Q. Government Exhibit 26.
6	A. Okay.
7	Q. And last in this series, Government Exhibit 28
8	through 30, all of which have previously been provided to
9	the defense.
10	So generally, Special Agent, what are these
11	exhibits?
12	A. So these are communications from or with
13	Mr. Forkner.
14	Q. And are these communications from Mr. Forkner
15	about the 737 MAX, just generally?
16	A. Yes. Generally, they're electronic communications
17	with Mr. Forkner.
18	Q. When you say "electronic communications," does
19	that include email messages and chat communications?
20	A. Yes, sir.
21	Q. And where did you get this series of documents
22	from?
23	A. These documents came from The Boeing Company.
24	Q. Are they true and accurate copies of the documents
25	that you received from Boeing in the course of your

```
1
     investigation?
 2
          Α.
               Yes.
               MR. O'NEILL: At this time, we offer Government
 3
 4
     Exhibits 1, 2, 4 through 8, 10, 11, 11A, 12 through 17, 19,
 5
     21 through 23, 26, and 28 through 30.
                               Your Honor, no objection.
 6
               MS. MCFARLANE:
               THE COURT: Those will be admitted.
 7
          (Government Exhibits 1, 2, 4-8, 10, 11, 11A, 12-17, 19,
 8
 9
          21-23, 26, and 28-30 were admitted into evidence.)
10
     BY MR. O'NEILL:
               Special Agent, can I direct you to what's marked
11
          0.
12
     for identification as Government Exhibit 31 in your binder?
13
     Do you see that document?
14
          Α.
               Yes, sir.
15
          0.
               And this was also previously provided to defense.
16
               Are you familiar with this document?
17
               I am.
          Α.
18
               What is it?
          Q.
19
               This is an email from Mr. Forkner to Bob Waltz at
          Α.
20
     Southwest Airlines.
               And where did you obtain this -- this email?
21
          0.
               This email came from Southwest Airlines.
22
          Α.
23
               Generally speaking, is it about the MAX?
          0.
24
          Α.
               Yes, it's an email about the MAX.
25
               I'm sorry. Go ahead.
```

1	Q. That's all right.
2	A. I was just looking at the subject line, "AEG and
3	MCAS," but it pertains to the MAX.
4	Q. And is a true and accurate copy of the document
5	you received from Southwest?
6	A. It is.
7	MR. O'NEILL: We offer Government Exhibit 31.
8	MS. MCFARLANE: No objection, your Honor.
9	THE COURT: Thirty-one will be admitted.
10	(Government Exhibit 31 was admitted into evidence.)
11	BY MR. O'NEILL:
12	Q. Special Agent, I'm now directing you to what's
13	been marked for identification as Government Exhibit 32A, as
14	in "apple", in your binder. Do you see that?
15	A. Yes, sir.
16	Q. Are you familiar with this document?
17	A. I am.
18	Q. Generally speaking, what is it?
19	A. So this is a purchase agreement, or a letter
20	agreement, between The Boeing Company and Southwest
21	Airlines.
22	Q. And this was also previously provided to the
23	Defense.
24	Special Agent, did you obtain this document from
25	The Boeing Company?

1	A. Yes.
2	Q. Is it a true and accurate copy of the document you
3	received from Boeing in the course of your investigation?
4	A. It is.
5	MR. O'NEILL: We offer Government Exhibit 32A.
6	MS. MCFARLANE: No objection, your Honor.
7	THE COURT: It will be admitted.
8	(Government Exhibit 32A was admitted into
9	evidence.)
10	BY MR. O'NEILL:
11	Q. And finally, Special Agent Byers, direct your
12	attention to what are marked for identification and
13	previously provided to the Defense as Government Exhibits
14	101, 102, 103, and 104. Do you see those documents in your
15	binder?
16	A. I do.
17	Q. Are you generally familiar with each of these
18	documents?
19	A. I am, yes.
20	Q. What are they, generally speaking?
21	A. So these are, generally, electronic communications
22	from The Boeing Company to to the airlines regarding,
23	well, sending invoices for the MAX.
24	Q. And when you say "the airlines," are Government
25	Exhibits 101 and 102 communications from The Boeing Company

1	to Americ	an Airlines?
2	A.	They are, yes.
3	Q.	And 103 and 104, are those communications from The
4	Boeing Co	mpany to Southwest Airlines?
5	A.	Yes.
6	Q.	Okay. And do they relate to the MAX?
7	A.	They do.
8	Q.	Did you obtain these electronic messages and their
9	attachmen	ts from The Boeing Company?
10	A.	Yes.
11	Q.	Are they true and accurate copies of the materials
12	you recei	ved?
13	A.	Yes.
14		MR. O'NEILL: At this time, we offer Government
15	Exhibit 1	01, 102, 103, and 104.
16		MS. MCFARLANE: No objection, your Honor.
17		THE COURT: That will be admitted.
18		(Government Exhibits 101-104 were admitted into
19	evid	ence.)
20	BY MR. O'	NEILL:
21	Q.	Special Agent Byers, let's discuss some of the
22	defendant	's communications about the 737 MAX.
23	A.	Okay.
24	Q.	Did you review communications of the defendant's
25	about som	ething called Level B differences training and

1	Southwest Airlines?
2	A. Yes.
3	MR. O'NEILL: If we could turn to what's in
4	evidence as Government Exhibit 1, if we could please publish
5	this on the screen, Ms. Holbrook.
6	BY MR. O'NEILL:
7	Q. Looking at what's in evidence on your screen,
8	Special Agent, as Government Exhibit 1, are you familiar
9	with this email from the defendant?
10	A. I am, yes.
11	MR. O'NEILL: If we could please call out the
12	date, Ms. Holbrook.
13	BY MR. O'NEILL:
14	Q. What is the date of this email?
15	A. The date of the email is May 21 of 2014.
16	Q. It's a three-page email. I would like to focus on
17	what the defendant writes at 8:55 a.m.
18	MR. O'NEILL: If we could please call out that
19	portion of the message, Ms. Holbrook.
20	BY MR. O'NEILL:
21	Q. Special Agent, is the defendant responding to a
22	Boeing colleague in this message?
23	A. Yes, sir, he is.
24	Q. What does the defendant write about a \$1 million
25	penalty, here in the highlighted text?

He stated, with a \$1 million penalty per 1 Α. Sure. 2 airplane written to the -- into the SWA sales contract, via 3 CSID letter, as I understand, if the training level 4 difference goes beyond Level B, I'm guessing that's not a 5 viable plan. Not to mention many of the design decisions for the MAX were specifically -- made specifically to 6 7 protect Level B. And Special Agent, do you see here where the 8 Q. defendant uses the initials "SWA"? 9 10 Yes, sir. Α. 11 Are you familiar with those initials? 0. 12 I am. Α. 13 In the context of this message, what does "SWA" Q. 14 mean? 15 Α. Southwest Airlines. MR. O'NEILL: If we could please turn to what's in 16 17 evidence as Government Exhibit 4, and if we could publish 18 that for the jury, please. 19 BY MR. O'NEILL: 20 Are you familiar with this email from the Q. defendant? 21 22 Α. Yes. 23 What's the date of this email? 0. 24 Α. The date of this email is September 15 of 2014. 25 And does the subject of the defendant's email 0.

1	reference the MAX?
2	A. It does.
3	MR. O'NEILL: And if we could, Ms. Holbrook, go up
4	the content of the message, please.
5	BY MR. O'NEILL:
6	Q. And Special Agent, does the does the defendant
7	also use the initials Southwest Airlines the initials for
8	Southwest Airlines in this message?
9	A. Yes, he does.
10	Q. What does the defendant write about Level B and
11	Southwest Airlines in the highlighted text?
12	A. He wrote, "One of the prime program directives is
13	that the NG to MAX differences training level cannot exceed
14	Level B CBT."
15	He went on to state, "If Level B or C or D
16	training is triggered, it results in a financial penalty to
17	the company, per the sales contract with SWA, at a minimum."
18	And in parentheses, "There may be other contracts
19	I am not aware of with a similar penalty."
20	MR. O'NEILL: If we could please turn to and
21	publish what's in evidence as Government Exhibit 8.
22	BY MR. O'NEILL:
23	Q. Special Agent, are you familiar with this email
24	from the defendant?
25	A. Yes, sir.

1	Q. What is the date of this email?
2	A. The date of this email is April 8 of 2015.
3	Q. And what is the subject line of defendant's email?
4	A. "Financial Impact of Risk 218 Level B Diff
5	Training."
6	Q. You mentioned it's a message forward from the
7	defendant. Is that right?
8	A. Correct, yes.
9	Q. I would like to focus here on the top part of the
10	email chain focusing on the defendant's message. Does he
11	again use the initial "SWA" for "Southwest" in this email?
12	A. Yes, sir, it appears so.
13	Q. And focusing here on the highlighted text, what
14	does the defendant write about determining the financial
15	impacts of greater than Level B?
16	A. Sure. So he wrote, "Frankly, that number is so
17	big, and the nonfinancial impacts are so bad, that to try to
18	determine a number is a waste of time, in my opinion,
19	especially as widely variable as that cost will be from
20	customer to customer" "besides Southwest Airlines," in
21	parentheses. "We must obtain Level B for RCAS and the NG to
22	MAX differences, or it's a planet killer."
23	Q. Special Agent Byers, in addition to those
24	communications from the defendant about Level B and

Southwest Airlines that we just saw, did you also review

25

1 communications from the defendant about Level B differences 2 training, more generally? 3 Α. Yes. 4 Let's start with what the defendant wrote about 0. 5 Level B in 2014. MR. O'NEILL: If we could please turn to and 6 7 publish what's in evidence as Government Exhibit 2. BY MR. O'NEILL: 8 9 Are you familiar with this email from the 10 defendant? 11 Α. Yes, sir. 12 What is the date of the message? Q. 13 The date of this message is May 23 of 2014. Α. 14 And this is another multipage email. Let's focus 0. 15 on the top part of the chain from the defendant here at 10:48 p.m. 16 17 Α. Okay. 18 Is the defendant responding to a colleague's 0. 19 message here? 20 Α. Yes, sir. What does the defendant write about Level B in the 21 **Q.** 22 highlighted text? 23 He wrote, "In the current environment we're Α. 24 dealing with, with regards to the AEG and training-level 25 differences, I have to assume that even a small change in a

1	memory item may trigger a level beyond a Level B."
2	He went on pardon me to state, "Protecting
3	Level B differences training is a primary ground rule for
4	the program."
5	Q. And you mention that the defendant is
6	communicating with colleagues in these messages. Where does
7	the defendant and his colleagues work at the time?
8	A. The Boeing Company.
9	MR. O'NEILL: If we could please turn to and
10	publish government Exhibit 5.
11	BY MR. O'NEILL:
12	Q. Are you familiar with this email from the
13	defendant?
14	A. Yes, sir.
15	Q. What's the date?
16	A. The date on this one is December 18 of 2014.
17	Q. It's a two-page email chain here. Who is the
18	defendant emailing?
19	A. A colleague at Boeing.
20	Q. Is that someone named Ross Chamberlain?
21	A. Yes, sir.
22	Q. Do you see toward the bottom of this first page
23	there is some discussion between the defendant and
24	Mr. Chamberlain about not getting a second interview. Do
25	you see that?

1	A. Yes, sir.
2	Q. And do you see where Mr. Chamberlain writes at
3	12:24 p.m., "After the MAX is done, you will be able to
4	write your own ticket"?
5	A. Yes.
6	Q. What does the defendant write in response?
7	A. He wrote, "Except, of course, if we lose Level B,
8	which will be thrown squarely on my shoulders. It was Mark,
9	yes, Mark, who cost Boeing tens of millions of dollars.
10	Burn him at the stake. Oh, well. Someone will have to
11	pay."
12	Q. What does the defendant say would cost Boeing tens
13	of millions of dollars?
14	A. Mark, himself.
15	Q. If we lose what?
16	A. Level B training differences.
17	MR. O'NEILL: If we can take that down,
18	Ms. Holbrook. Thank you.
19	BY MR. O'NEILL:
20	Q. Special Agent, did the defendant continue writing
21	about Level B differences training into 2015?
22	A. He did, yes.
23	MR. O'NEILL: Let's turn to, please, and publish
24	Government Exhibit 6.
25	///

1	BY MR. O'NEILL:
2	Q. Are you familiar with this email from the
3	defendant?
4	A. Yes, sir.
5	Q. What's the date of the message?
6	A. The date of this message is February 5th of 2015.
7	Q. This is another multipage email with a number of
8	people. Generally, do they work for The Boeing Company?
9	A. Yes, they do.
10	Q. Do you see they're emailing about potential
11	differences between the 737 NG and MAX?
12	A. Yes.
13	Q. Let's focus on the top email here at 11:29 a.m.
14	from the defendant.
15	What does the defendant write to his colleague in
16	the highlighted part about Level B differences training?
17	A. He wrote, "I can say that from a training
18	certification perspective, every difference between the NG
19	and the MAX is being scrutinized heavily by the FAA AEG, who
20	makes the training level determination. Each new difference
21	represents a threat to obtaining no greater than Level B CBT
22	differences training between the NG and MAX. If this
23	happens, big financial penalties occur."
24	MR. O'NEILL: If we could turn to and publish
25	Government Exhibit 7.

1	BY MR. O'NEILL:
2	Q. Are you familiar with this email from the
3	defendant?
4	A. Yes, I am.
5	Q. What's the date of the defendant's message?
6	A. March 2nd of 2015.
7	Q. And again, it's a multipage email thread.
8	Focusing on the defendant's top message at 4:33 p.m., what
9	does he write in the highlighted text about Level B?
10	A. He wrote, "One of the program directives is to
11	minimize system differences between NG and MAX to preserve
12	Level B training differences at all costs. Each new change
13	difference jeopardizes that directive."
14	MR. O'NEILL: If we could please turn to and
15	publish Government Exhibit 12.
16	BY MR. O'NEILL:
17	Q. Are you familiar with this email from the
18	defendant?
19	A. Yes.
20	Q. What's the date of his message?
21	A. The date of this message is March 8 of 2016.
22	Q. And what is the subject of the defendant's email?
23	A. "Flight Controls SB Review."
24	Q. What does the defendant write about flight
25	controls and Level B here in the highlighted text?

He wrote, "Here's the flight control module, 1 Α. 2 updated with a thorough review by the flight control 3 engineers. This module is, of course, the big one for us. 4 This material poses the greatest threat to Level B, so let's 5 be thorough and strategic about stressing either how similar the MAX is to the NG and/or how the new functionalities are 6 7 transparent to the flight crew." Mr. Forkner's email references a flight controls 8 Q. Do you see that? 9 module. 10 Yes, sir. Α. 11 Does he attach that document to the message? 0. 12 Yes. There's a -- there's an attachment. Α. 13 MR. O'NEILL: Ms. Holbrook, if we could please 14 turn to the attachment of this Exhibit, page 7 of 13. And 15 if we could please call out the header in the top of this. BY MR. O'NEILL: 16 17 Special Agent, what is the title, or header, of 0. 18 this page in the attachment to Mr. Forkner's email? 19 "737 Flight Controls NG MAX Differences." Α. 20 MR. O'NEILL: And if we could please call out the last row on this page, Miss Holbrook. 21 22 BY MR. O'NEILL: 23 Special Agent, do you see here on this page under 0. 24 "Flight Controls" something called "Maneuvering Characteristics Augmentation Systems, " or "MCAS" for short? 25

1	A. Yes, sir.
2	Q. In the context of this attachment, is MCAS
3	referenced as part of flight controls?
4	A. Yes.
5	MR. O'NEILL: So looking back at the defendant's
6	if we could go back to that, Ms. Holbrook, and looking at
7	this page together.
8	BY MR. O'NEILL:
9	Q. So in the defendant's own words, what material
10	posed the greatest threat to Level B?
11	A. Flight controls.
12	Q. Flight controls including what?
13	A. Including MCAS.
14	MS. MCFARLANE: Objection, your Honor. Misstating
15	the evidence.
16	THE COURT: Okay. The jury will recall the
17	evidence, and you will make the determination on what was
18	said and what was meant in all of this.
19	MR. O'NEILL: Thank you, your Honor.
20	If we could please turn to and publish government
21	Exhibit 14.
22	BY MR. O'NEILL:
23	Q. Special Agent, are you familiar with this email
24	from the defendant?
25	A. I am, yes.

1 0. Generally, who is he write -- who is he writing to 2 in this message? 3 This message is with colleagues. Α. And colleagues -- colleagues at The Boeing 4 Q. 5 Company? 6 Α. At The Boeing Company, yes. 7 Q. What is the date of this message to his Boeing 8 colleagues? 9 This was May 20th of 2016. Α. 10 Does the subject of the defendant's message Q. 11 reference 737 MAX differences training? 12 Α. Yes. 13 What does the defendant write to his Boeing 0. 14 colleagues here about Level B here in the highlighted 15 portion of the message? He wrote, "There is no backup plan if we don't get 16 Α. 17 Level B. We're going to get Level B. The program won't 18 allow anything but that to happen." 19 MR. O'NEILL: And if we could please turn to and 20 publish government Exhibit 15. 21 BY MR. O'NEILL: 22 What's the date of this email from the defendant? Q. 23 June 14 of 2016. Α. 24 What does the defendant write in the highlighted Q. 25 portion here about his job and work?

He wrote, "My job is insanely busy. 1 Α. The airplane 2 certification project I've been working on for two years is 3 coming to a head this August with the AEG. If I pull this 4 off, I will be a hero. If not, they'll string me up on a 5 flag pole for the world to see." Who did the defendant say that the airplane 6 Q. 7 certification project he'd been working on was with? 8 Α. The AEG. 9 When did the defendant say that his project was 0. 10 coming to a head? 11 Α. In August. 12 And in the context of this message, August of what Q. 13 year? 14 Of 2016. Α. 15 MR. O'NEILL: Let's turn to and publish Exhibit 16. 16 17 BY MR. O'NEILL: 18 Are you familiar with this email chain from the 0. 19 defendant? 20 Α. Yes, sir. I am. It's a two-page chain. Let's walk it -- walk 21 Q. 22 through it from the bottom up. 23 First, what's the date of the defendant's first 24 message here? 25 Α. The date is August 16 of 2016.

1	Q. And the defendant's writing to a bunch of folks
2	here. At a high level, who is he writing to?
3	A. These are folks within The Boeing Company.
4	Q. What's the subject of the defendant's email to his
5	Boeing colleagues?
6	A. The subject was, "MAX Differences Training Level"
7	[sic] or "Training Approved at Level B," and then a whole
8	bunch of exclamation points.
9	MR. O'NEILL: If we could turn to the next page,
LO	please, Ms. Holbrook, which is the body of defendant's
L1	message. If we could call out the message, please.
L2	BY MR. O'NEILL:
L3	Q. What does the defendant write here in the
L4	highlighted portion about Level B and the MAX?
L5	A. He wrote, "I'm happy to inform you that we
L6	successfully passed the T3 differences training validation
L7	flight today, establishing the 737 MAX as the same type
L8	rating as the 737 NG and requiring no greater than Level B
L9	computer-based training (CBT) differences training between
20	the two. This is provisional approval pending final Part 25
21	type certification and assuming no significant systems
22	changes on the airplane."
23	Q. And who does the defendant say in this message
24	would provide this provisional Level B approval?

The FAA.

A.

25

Working our way back up through the email thread, 1 0. 2 here, Special Agent, do you see that somebody named Keith 3 Leverkuhn replies to the defendant at 5:24 p.m.? 4 Yes, sir. Α. 5 MR. O'NEILL: If we could focus on that message, 6 please, Ms. Holbrook. 7 BY MR. O'NEILL: What does Mr. Leverkuhn write to the defendant and 8 Q. 9 others? 10 He wrote, "Fantastic news, Mark. Just a huge win Α. 11 for the team, for Boeing, and our customers. Thanks so much 12 for your leadership on what I'm sure has been a long, 13 strange trip. We can now eliminate the longest-standing 14 Thanks again, Mark. Well, done." risk on the MAX program. 15 MR. O'NEILL: If we could zoom back out, please. BY MR. O'NEILL: 16 17 Does the defendant forward Mr. Leverkuhn's 0. 18 thank-you message to a smaller group? 19 Α. Yes, he does. 20 What does he write when forwarding this chain to Q. 21 the smaller group? 22 He wrote, "Program is very happy. See below." Α. 23 And, again, is Mr. Forkner forwarding this message 0. 24 to his colleagues at Boeing? 25 Α. He is, yes.

1	MR. O'NEILL: Let's go to and publish Government
2	Exhibit 17, please.
3	BY MR. O'NEILL:
4	Q. Are you familiar with this email from the
5	defendant?
6	A. Yes.
7	Q. What's the date of the defendant's message?
8	A. August 16 of 2016.
9	Q. Is that the exact same date as the email chain we
10	just saw?
11	A. Yes, it is.
12	Q. Is this essentially another branch or thread of
13	that same email chain?
14	A. Yes. It appears so.
15	Q. At the top of this email chain in Government
16	Exhibit 17, what did the defendant write to someone named
17	Stephen Taylor?
18	And if we could focus on the highlighted text here
19	at the top.
20	A. Sure. He wrote, "I would like to discuss the 787
21	chief tech pilot position with you when you're free, Steve.
22	I'm wondering if it might be the best thing for both myself
23	and the whole flight tech team now that we've achieved Level
24	B."
25	Q. Special Agent, in the context of the defendant's

1	message, what is the 787 chief tech pilot position?
2	A. It is a position that he's not in right now. It's
3	a different position. It's on a different aircraft.
4	Q. And is this the 787, in the context of this
5	message, does that refer to a different aircraft than the
6	737 MAX?
7	A. Yes, it does.
8	Q. So I think you mentioned this, but would that be a
9	different position than the defendant's position on the
10	737
11	A. Yes.
12	Q at the end of this message?
13	A. Yes.
14	Q. What did the defendant tell Mr. Taylor here about
15	that position the same day that he wrote about achieving
16	Level B MAX?
17	A. That he thought it might be the best thing for
18	both himself and the whole flight tech team.
19	Q. And now that we achieved what?
20	A. Now that they've achieved Level B.
21	MR. O'NEILL: If we could take that down, please,
22	Ms. Holbrook.
23	BY MR. O'NEILL:
24	Q. Special Agent Byers, did you review communications
25	from the defendant after he wrote about provisional Level B

1	for the MAX?
2	A. Yes.
3	MR. O'NEILL: Let's publish, please, Government
4	Exhibit 19.
5	BY MR. O'NEILL:
6	Q. Are you familiar with this email from the
7	defendant?
8	A. I am, yes.
9	Q. What's the date of his email?
10	A. This email was dated November 3rd of 2016.
11	Q. Who's he writing to in this message?
12	A. This is a message to colleagues at The Boeing
13	Company.
14	Q. And November 3, 2016, is that a couple of months
15	after the defendant's August 26th email about provisional
16	Level B?
17	A. Yes.
18	Q. What does the defendant write to his Boeing
19	colleagues here in the highlighted portion of the message?
20	A. He wrote, "Remember, we only have provisional
21	approval for Level B and for the CBT, as presented to the
22	regulators. This would be an appreciable change to both the
23	airplane and the training that would risk our Level B
24	determination."
25	MR. O'NEILL: And if we could please turn to and

publish Government Exhibit 21. 1 2 BY MR. O'NEILL: Special Agent, are you familiar with this email 3 0. 4 from the defendant? 5 Α. Yes. What's the date of the message? 6 Q. 7 Α. The date of this message was November 10 of 2016. So is that about a week after the email we just 8 0. 9 saw where the defendant reminds his colleagues that they 10 only have provisional Level B? 11 Approximately, yes. Α. 12 Does the subject line here refer to the 737 Max? Q. 13 Α. It does. 14 This is another multipage email from the defendant 0. 15 and others. Let's focus on page 2, please. MR. O'NEILL: If we could call out this message 16 17 here and focus on the highlighted portion. 18 BY MR. O'NEILL: 19 In this message, does the defendant appear to be **Q.** 20 writing about a system on the MAX? 21 Α. Yes. 22 What does the defendant write in the highlighted 0. 23 portion of this message? 24 Α. He wrote, "This, of course, creates a massive 25 threat to the differences training. One of the program

directives we were given was to not create any differences 1 2 in memory items. This is what we sold to the regulators who 3 have already granted us the Level B differences 4 determination. To go back to them now and tell them that 5 there is, in fact, a difference in how you must operate the MAX during an emergency descent would be a huge threat to 6 7 that differences training determination." What does the defendant write was one of the 8 0. 9 program directives we were given? 10 Level B. Α. Who does the defendant say that this was "sold to" 11 0. 12 in this message? 13 Α. The regulators. 14 Now, here, on November 10, 2016, what does the 15 defendant write about going back to the regulators now and telling them there is, in fact, a difference on the MAX? 16 17 Α. He wrote that would be a huge threat to that 18 differences training determination. 19 MR. O'NEILL: Let's turn to and publish Government 20 Exhibit 22, please. BY MR. O'NEILL: 21 22 Special Agent Byers, are you familiar with this 0. 23 chat communication from the defendant? 24 Α. Yes, sir. 25 MR. O'NEILL: If we could call out the header,

1 please, Ms. Holbrook. 2 BY MR. O'NEILL: 3 First, what is the date of this chat? 0. 4 Α. This is a chat dated November 15 of 2016. 5 So this is about five days after the chat -- the **Q.** 6 email we just saw? 7 Α. Yes. Who is the defendant communicating with in this 8 0. 9 chat? 10 Mr. Gustavsson, who is a colleague of his. Α. 11 0. Colleague at Boeing? 12 At Boeing, yes. Α. 13 Q. And it is a two-page message, a chat 14 communication. 15 MR. O'NEILL: If we could look at both pages together and call out what Mr. Gustavsson and the defendant 16 17 wrote to each other. And let's focus on what they started 18 writing at 6:50 p.m. down to 6:53 p.m., Ms. Holbrook. 19 BY MR. O'NEILL: 20 Special Agent Byers, could you please read this Q. part of the defendant's back-and-forth with Mr. Gustavsson? 21 22 If you could just start on the left here with the 23 defendant's message starting the 6:50 all the way down 24 through Mr. Gustavsson's message at 6:51. 25 Α. Mr. Forkner stated, "Oh, shocker alert. MCAS is

now active down to M.2. It is running rampant in the sim on 1 2 me, at least that's what Vince thinks is happening." Mr. Gustavsson responded stating, "Oh, great. 3 That means we must update the speed trim description 4 5 involved to." At which point, Mr. Forkner responded, "So I 6 7 basically lied to the regulators (unknowingly)." And then Mr. Gustavsson responds to him, "It 8 9 wasn't a lie. No one told us that was the case." 10 Okay. Now, when the defendant writes at 0. 6:50 p.m., "Oh, shocker alert. MCAS is now active down to 11 12 M.2," what does "M.2" refer to in the context of this chat? 13 Mach .2. Α. 14 Just generally, what does the term "Mach" mean? Q. 15 Α. Mach is a measurement of speed. And then one line down, the defendant references, 16 0. 17 "It's running rampant in the sim on me," s-i-m. In the 18 context of this chat, what do you understand "sim" to mean? 19 Flight simulator. Α. 20 And then when the defendant -- what does the Q. defendant write here with respect to regulators, at 21 22 6:51 p.m.? 23 He wrote that he basically lied to the regulators Α. 24 unknowingly. 25 Based on the context of this chat and the emails 0.

1	we just saw, which regulators was the defendant referring
2	to?
3	MS. MCFARLANE: Objection. Speculation.
4	THE COURT: Do you know which regulator?
5	THE WITNESS: Based on the context of other
6	emails.
7	THE COURT: Okay. Overruled.
8	You can answer the question.
9	THE WITNESS: Okay. The FAA AEG.
10	BY MR. O'NEILL:
11	Q. So when the chat continues, and Mr. Gustavsson
12	writes, "It wasn't a lie. No one told us that was the
13	case," how does the defendant respond?
14	A. He responds at 6:51 stating, "I'm leveling off at,
15	like, 4,000 feet, 230 knots, and the plane is trimming
16	itself like crazy. I'm like, what?"
17	Q. And then Mr. Gustavsson writes, "That's what I saw
18	on sim 1, but on approach. I think that's wrong."
19	How does the defendant respond?
20	A. He responds stated, "Granted, I suck at flying,
21	but even this was egregious."
22	Q. And Mr. Gustavsson continues, "No. I think we
23	need aero to confirm what it's supposed to be doing."
24	How does the defendant respond?
25	A. He responds stating, "Vince is going to get me

1	some spreadsheet table to that shows when it's supposed to
2	kick in. Why are we just now hearing about this?"
3	Q. Special Agent Byers, did you review emails from
4	the defendant about something called the "Flight
5	Standardization Board," or "FSB"?
6	A. Yes, sir.
7	MR. O'NEILL: If we could please publish what's in
8	evidence as Government Exhibit 28.
9	BY MR. O'NEILL:
10	Q. Are you familiar with this email from the
11	defendant?
12	A. Yes.
13	Q. What is the date of the defendant's email?
14	A. The date of this email was July 7 of 2017.
15	Q. Is that about eight months after the November 15,
16	2016, shocker alert chat that we just saw?
17	A. Yes, sir.
18	Q. What's the subject of this email from the
19	defendant?
20	A. The subject was regarding the FSB report.
21	Q. And at a high level, who was the defendant writing
22	to?
23	A. Colleagues within The Boeing Company.
24	Q. What does Mr. Forkner write to his Boeing
25	colleagues about the FSB report? If you could focus on the

1	highlighted text, please.
2	A. Sure. "Attached is the final and approved 737 FSB
3	report which adds the 737 MAX." He went on to state, "This
4	formally approves the MAX as the same type rating as the 737
5	and Level B differences between NG and MAX in the report."
6	Q. Does the defendant say that he's attached the FSB
7	report?
8	A. Yes.
9	Q. And does this email have an attachment?
10	A. Yes.
11	MR. O'NEILL: If we could please turn to page 5 of
12	the exhibit, which is the first page of the attached report.
13	If we could please call out the bottom "approved by"
14	section, Ms. Holbrook.
15	BY MR. O'NEILL:
16	Q. Special Agent Byers, who approved the FSB report,
17	as noted here?
18	A. This was approved by the Federal Aviation
19	Administration, Air Traffic Evaluation Group, or AEG.
20	Q. Have you had a chance to review this before your
21	testimony today?
22	A. Yes, sir.
23	Q. Based on your review, is MCAS, or the Maneuvering
24	Characteristics Augmentation System, is that referenced

anywhere in this final FSB report?

25

1	A. No, sir.
2	MR. O'NEILL: If we could please go back to the
3	defendant's cover email.
4	BY MR. O'NEILL:
5	Q. Special Agent, what level of differences training
6	does the defendant say is reflected in this final and
7	approved FSB report?
8	A. Level B.
9	MR. O'NEILL: Let's please publish and turn to
10	government Exhibit 29.
11	BY MR. O'NEILL:
12	Q. Are you familiar with this email from the
13	defendant?
14	A. I am, yes.
15	Q. Who is the defendant emailing, just generally?
16	A. Chris Hurrell at American Airlines.
17	Q. And what is the defendant emailing to American
18	Airlines?
19	A. The 737 FSB report updated with the MAX.
20	Q. With what level of training for the MAX?
21	A. Level B.
22	Q. On what date?
23	A. July 7 of 2017.
24	Q. Is that the date that the report was published?
25	A. Yes.

1	MR. O'NEILL: If we could please turn to and
2	publish government Exhibit 30.
3	BY MR. O'NEILL:
4	Q. Special Agent, are you familiar with this email
5	from the defendant?
6	A. Yes, sir, I am.
7	Q. Just on a high level, who is the defendant
8	emailing?
9	A. These gentlemen are with Southwest Airlines.
10	Q. Does this email have an attachment?
11	A. It does, yes.
12	Q. What is the defendant sending to Southwest
13	Airlines in this email?
14	A. In this email, it's also the 737 FSB report, which
15	is adding the 737 MAX.
16	Q. With what level of training for the MAX?
17	A. Level B.
18	Q. And on what date does he send this to Southwest
19	Airlines?
20	A. This is the same day, July 7, 2017.
21	Q. The same date the report was published?
22	A. Yes, sir.
23	MR. O'NEILL: We can take that down Ms. Holbrook,
24	thank you.
25	///

BY MR. O'NEILL:
Q. Special Agent, I believe you testified that the
FAA AEG approved the FSB report we just saw; is that right?
A. Yes.
Q. Did you review emails from the defendant
discussing how to deal with or interact with the FAA AEG?
A. I did.
Q. Let's talk about Government Exhibit 11A, as in
"apple," and 11, which are in evidence. And before I
publish them, are you generally familiar with these emails?
A. I think so. Yes, sir, I am.
Q. Are they two parts of the same email thread?
A. Yes. It looks like it's an email thread that has
been branched off in a different direction.
Q. Okay. And does the defendant reply at the top of
the thread?
A. He does on Government Exhibit 11, yes.
MR. O'NEILL: If we could please publish
Government Exhibit 11A, which is the first message in the
chain.
BY MR. O'NEILL:
Q. Focusing on this first message in the longer
chain, who is this email from?
A. Um, this is from Mr. Chamberlain at The Boeing

Company.

25

1	Q. And who's it to?
2	A. Mr. Forkner and Mr. Gustavsson.
3	Q. What's the subject line of Mr. Chamberlain's
4	message?
5	A. "AEG Visit Thursday."
6	Q. And do you see here, does Mr. Chamberlain write to
7	the defendant and Mr. Gustavsson things to talk about?
8	A. Yes, sir.
9	Q. And one of those is, "Respond to Stacey's email
10	attached." Do you see that in the highlight?
11	A. I do, yes, sir.
12	Q. And later in the message, see highlighted at the
13	bottom, Mr. Chamberlain writes, "Anything else to talk to
14	her about?"
15	A. Correct.
16	Q. And does Mr. Chamberlain attach someone named
17	Stacey's email as he references here?
18	A. Yes, he does.
19	MR. O'NEILL: If we could please turn to page 12
20	of this exhibit, Ms. Holbrook. And if we could just pull it
21	up side by side with this cover email from Mr. Chamberlain.
22	BY MR. O'NEILL:
23	Q. Is this the signature block of the email that was
24	attached to Mr. Chamberlain's message?
25	A. Yes, it was.

And looking at the bottom here, who is the Stacey 1 0. 2 that's referenced in Mr. Chamberlain's message to the 3 defendant? 4 Α. Stacey Klein. 5 0. And where does she work, according to her 6 signature block here? 7 Α. She works for the Aircraft Evaluation Group, or AEG. 8 9 What is Ms. Klein's role or her group' role with 0. 10 respect to the FSB? 11 She's the chair. Α. Does the email conversation continue? 12 Q. 13 Yes, it does. Α. MR. O'NEILL: Okay. Now, let's take a look, if we 14 15 could, Ms. Holbrook, at 11, Government Exhibit 11, which is the top email in the thread, and if we could keep that side 16 17 by side here with Ms. Klein's signature block in the 18 attached message. 19 BY MR. O'NEILL: 20 Special Agent, what did the defendant write to his Q. colleagues here in the highlighted text? 21 "Patrick, remember the three tools to instructing 22 Α. 23 with her: Fear, sarcasm, and ridicule." 24 0. Based on this email thread, who does the defendant 25 appear to be referring to when he writes "her"?

1 Stacey Klein. Α. 2 And what tools, to instructing with Ms. Klein, did Q. 3 the defendant tell his colleagues to remember? 4 Fear, sarcasm, and ridicule. Α. 5 MR. O'NEILL: If we could please publish Government Exhibit 10. 6 7 BY MR. O'NEILL: Are you familiar with this document? 8 0. 9 Α. Yes, sir. 10 What's the date? Q. The date of this document is January 5th of 2016. 11 Α. 12 And who is the defendant talking with in this Q. 13 communication? 14 This is a chat communication with Mr. Chamberlain. Α. Writing with, excuse me. 15 Q. Is this chat communication with Mr. Chamberlain, 16 17 is this before the defendant's November 15th, 2016, "shocker alert" chat with Mr. Gustavsson? 18 19 Α. Yes. 20 MR. O'NEILL: If we could zoom back out to the 21 highlighted portion of the defendant's conversation with 22 Mr. Chamberlain, please. 23 BY MR. O'NEILL: 24 Special Agent, could you please read the Q. 25 back-and-forth here between Mr. Chamberlain and the

1	defendant from 7:57 through 8:00?
2	A. I'm sorry. Can you repeat that, sir?
3	Q. Yes. Can you please read the back and forth here
4	between Mr. Chamberlain the defendant starting at 7:57 a.m.
5	in the highlighted portion?
6	A. Certainly. "That leaves Stacey and Thayer as the
7	ones that have the understanding of the differences between
8	the NG and MAX." That's from Mr. Chamberlain.
9	And then Mr. Forkner states, "Dogs watching TV."
10	Q. And does the chat continue?
11	A. It does. I'm sorry.
12	Mr. Chamberlain then goes on to state at
13	7:59 a.m., "I think we make our money at this meeting by
14	getting them to buy into the training and evaluation plans.
15	Unfortunate that Roman won't be here. He can corral Stacey
16	and guide her."
17	And then Mr. Forkner goes on to state at
18	8:00 a.m., "I think with all the inexperience present, we
19	should be able to gang up on them and steer it in the
20	direction that we want."
21	Q. Mr. Chamberlain's messages refer to the name
22	"Stacey." Do you see that?
23	A. Yes, sir.
24	MR. O'NEILL: Ms. Holbrook, if we could keep this
25	and pull up 11A side by side with this chat.

1	BY MR. O'NEILL:
2	Q. Special Agent, based on the context of this chat
3	communication and the email we just saw at Government
4	Exhibit 11A, who is Mr. Chamberlain referring to, the name
5	Stacey?
6	A. Stacey Klein.
7	Q. The Chair of the FSB?
8	A. That is correct, yes.
9	Q. And in his 7:58 a.m. communication, how does the
10	defendant refer to folks, including Ms. Klein?
11	A. As "Dogs watching TV."
12	Q. And when Mr. Chamberlain continues at 7:59 a.m.,
13	when he writes, "I think we make our money at this meeting
14	by getting them to buy into the training and evaluation
15	plans. Unfortunate that Roman won't be here. He can corral
16	Stacey and guide her," which Stacey does Mr. Chamberlain
17	appear to be referring to here?
18	A. Stacey Klein, the Chair of the FSB.
19	Q. How does the defendant respond with regard to
20	Ms. Klein and others?
21	A. "That with the inexperience present, we should be
22	able to gang up on them and steer it in the direction we
23	want."
24	MR. O'NEILL: Court's indulgence.
25	Nothing further.

1		MS. MCFARLANE: Thank you, your Honor.
2		CROSS-EXAMINATION
3	BY MS. MC	
	_	
4	Q.	Good afternoon, Agent Byers. How are you?
5	A.	Good morning. Okay.
6	Q.	Or morning. Sorry. My time is off today.
7		My name is Ashlee McFarlane, and I represent
8	Mr. Mark	Forkner on this case.
9		On direct examination you said that you're a
10	special ag	gent with DOT OIG, correct, Department of
11	Transport	ation?
12	A.	Yes, ma'am.
13	Q.	And you've been an agent for over 24 years; is
14	that right	t?
15	A.	Yes.
16	Q.	And over 20 years with the Department of
17	Transport	ation; is that right?
18	A.	Yes, ma'am.
19	Q.	And you've been investigating this case for
20	several ye	ears?
21	A.	Yes.
22	Q.	It's been several years, right?
23	A.	Several years, right.
24	Q.	You're one of the lead agents on this case; is
25	that right	t?

1 I'm not one of the primary agents. Α. I'm an agent 2 on the case, yes. 3 0. You're an agent on the case, correct? 4 Α. Yes. 5 And you've been involved over those few years in 0. this matter reviewing documents; isn't that right? 6 7 Α. At times, yes. And, in fact, you talked about how you obtained 8 Ο. 9 documents in this case from Boeing and Southwest Airlines 10 and American Airlines. You mentioned that you obtained them 11 through subpoenas and other requests; isn't in a correct? 12 Α. Yes. 13 And you've received, and your team has received, 0. 14 over 57 million pages of documents in this investigation; is 15 that right? I don't know the number, but I trust that's 16 Α. 17 accurate. 18 You trust that's accurate? 0. 19 It's a lot -- a lot of records were obtained. Α. 20 And that amounts to over 15 million documents in Q. 21 this matter alone; do you recall that? 22 I'm sure that's probably an accurate number. Α. 23 And the documents that you went over today that 0. 24 have been selected by the prosecutors in this matter 25 amounted to 30 or so documents; is that about right?

1	A. Something along those lines.
2	Q. Out of the 15 million that you received?
3	A. Yeah, we received a lot of exhibits. It was
4	thorough.
5	Q. Okay. And in your investigating this case and
6	reviewing the mountain of documents, you learned that Boeing
7	is a government contractor; isn't that right?
8	MR. O'NEILL: Objection, relevance.
9	THE COURT: Overruled.
10	THE WITNESS: I believe they're a government
11	contractor. I don't have any first-hand knowledge of that.
12	BY MS. MCFARLANE:
13	Q. You believe they're a government contractor?
14	A. Yes.
15	Q. And, in fact, they not only manufacture commercial
16	airplanes, they also are a weapons manufacturer; isn't that
17	correct?
18	MR. O'NEILL: Objection.
19	THE COURT: Overruled. Do you know?
20	THE WITNESS: I don't know firsthand. I assume
21	so, but I don't have any firsthand knowledge, your Honor.
22	THE COURT: Okay.
23	BY MS. MCFARLANE:
24	Q. So Agent Byers, you did not look into Boeing's
25	relationship with the government in reviewing this case?

1	A. That wasn't the focus of our investigation.
2	Q. Okay. And you said you assumed they're a weapons
3	manufacturer, but you're not sure?
4	A. Well, I know they I know there was a separate
5	division Boeing has, but we looked in the records related to
6	commercial aircraft.
7	Q. And you understand that Boeing is the largest
8	one of the largest multinational employers in the world?
9	You do understand that, correct?
10	A. They're a large company, yeah.
11	Q. Okay. And in your working on this case, you know
12	that Boeing did not did not plead guilty in this matter
13	at all?
14	MR. O'NEILL: Objection. Objection, relevance.
15	MS. MCFARLANE: Your Honor, it's relevant to the
16	motive of several Boeing witnesses in this case.
17	THE COURT: Okay. I'm going to sustain that to
18	this witness.
19	MS. MCFARLANE: I'm sorry, your Honor?
20	THE COURT: Is it relevant to the motive of this
21	witness?
22	MS. MCFARLANE: It's relevant to the motive of
23	other Boeing witnesses in this case.
24	THE COURT: Okay. Well, I'll sustain it as to
25	this witness.

1	MR. O'NEILL: Move to strike, your Honor.
2	THE COURT: Ladies and gentlemen of the jury,
3	remember my instruction to you. If I sustain an objection
4	that goes unanswered, you are not to consider the question
5	for any purpose.
6	MR. O'NEILL: Thank you, your Honor.
7	BY MS. MCFARLANE:
8	Q. And Agent Byers, you've already testified that
9	Boeing is a weapons manufacturer, the largest multinational
10	employer in the world, and a contractor for the federal
11	government
12	MR. O'NEILL: Objection.
13	THE COURT: I will sustain that. He has not
14	testified to that.
15	BY MS. MCFARLANE:
16	Q. But Mr. Forkner is sitting here in this courtroom
17	today; isn't that correct?
18	A. Mr. Forkner?
19	Q. Yes.
20	A. Yes, ma'am.
21	Q. And he's the only former Boeing employee sitting
22	here today; isn't that correct?
23	MR. O'NEILL: Objection, relevance, 403.
24	THE COURT: Sustained.
25	///

1	BY MS. MCFARLANE:
2	Q. Now, Mark Forkner in investigating this matter,
3	you looked at Mark Forkner's salary as a Boeing employee,
4	didn't you?
5	A. The investigative team might have. I did not.
6	Q. You did not?
7	A. No, ma'am.
8	Q. Through your investigation, did you learn what his
9	salary was in this case?
10	MR. O'NEILL: Objection.
11	THE COURT: Overruled.
12	Did you learn of the salary?
13	THE WITNESS: I don't know his exact salary.
14	BY MS. MCFARLANE:
15	Q. You don't know his exact salary?
16	Okay. I'm going to hand you what's been premarked
17	as Government's Exhibit 24H.
18	Oh, sorry, Defense Exhibit, not Government
19	Exhibit.
20	Your Honor, may I approach?
21	THE COURT: Yes.
22	MR. O'NEILL: Your Honor, we would object.
23	Outside the scope; hearsay.
24	THE COURT: Outside the scope and hearsay, you
25	said?

1	MR. O'NEILL: Outside the scope of direct.
2	THE COURT: Outside the scope of direct. Okay.
3	Overruled.
4	BY MS. MCFARLANE:
5	Q. Agent Byers, can you take a look at the document I
6	just handed you, please.
7	If you look at the bottom right-hand corner, do
8	you see the notation there on the bottom?
9	A. Yes.
10	Q. What does that mean to you?
11	A. It's a Bates stamp.
12	Q. Is that a Bates stamp that was received from The
13	Boeing Company?
14	A. Yes, it appears so.
15	Q. And in looking at this document, is this a
16	document from The Boeing Company?
17	A. Appears to be, yes.
18	Q. And is this a document that the government
19	obtained in this investigation from The Boeing Company?
20	A. It would have been, yes.
21	Q. Okay.
22	MS. MCFARLANE: Your Honor, defense moves to admit
23	Defense Exhibit 24H.
24	MR. O'NEILL: Objection, your Honor. May I
25	approach?

1	THE COURT: Okay.
2	(A sidebar was had.)
3	THE COURT: Overruled. Exhibit 24H, Exhibit 24H
4	will be admitted.
5	(Defense Exhibit 24H was admitted into evidence.)
6	BY MS. MCFARLANE:
7	Q. Agent Byers, 24H is now in evidence.
8	MS. MCFARLANE: Can we please publish that to the
9	jury, Mr. Payton. And if we could just highlight the top
10	box, please.
11	BY MS. MCFARLANE:
12	Q. Agent Byers, at the top of this document, doesn't
13	it say "Work history for" is this the work history for
14	Mr. Mark Forkner?
15	A. That's what it says in the document.
16	Q. Okay.
17	MS. MCFARLANE: And if we can highlight on the
18	left column.
19	BY MS. MCFARLANE:
20	Q. What is his pay rate, as of the last pay rate
21	that he received? Can you read that?
22	A. On the left column?
23	Q. Left column under "Highest Major."
24	A. Under that states, "Pay rate: 159,500."
25	Q. Okay.

1 MS. MCFARLANE: And if we can go back out of that, 2 please, Mr. Payton. 3 BY MS. MCFARLANE: 4 And if you flip through the document you have, 0. 5 Agent Byers, are there other pay rates throughout the years that Mr. Forkner received at The Boeing Company? 6 7 Α. On this document? Yes, sir. Do you notice the various rates? 8 Q. 9 I'm probably looking in the wrong place. Α. 10 Third from the right column. Q. Third from the right column. 11 Α. 12 Third or forth from the right column. Q. 13 Total compensation rate. Yes, there's different Α. 14 rates, looks like. 15 0. And it corresponds to all the different years Mr. Forkner worked for The Boeing Company, correct? 16 17 Corresponds to different years, yes. Α. If we look at the third page, last row, 18 0. Okay. 19 this is the lowest amount he's received, correct? 20 Let me highlight that row. If you can say, what's the -- what's the pay rate for that row? 21 22 The one referencing October of 2011 it looks like? Α. 23 0. That's correct. 24 Α. That -- that is -- that number is 117,500. Okay. 25 So it would seem from this document that Q. Okay.

his pay ranged, while at The Boeing Company, from 2011 1 2 through when he left in 2018, was from \$117,500 through that 3 first number we read, 159,000; is that correct? 4 It appears so, based on the document, yes. Α. 5 0. Okay. Thank you. 6 MS. MCFARLANE: We can take that down, please. 7 Your Honor, may I approach the witness? BY MS. MCFARLANE: 8 9 All right. Agent Byers, I've just handed you 10 another document. And do you recall, in the course of your investigation, receiving documents from Boeing that were in 11 their native form? 12 13 I believe we did. Α. 14 So, long Excel spreadsheets would be in sort of 0. 15 the actual form of the document; isn't that correct? I don't know, but during the investigation, I 16 Α. 17 received a lot of documents. 18 Q. Right. 19 I'm sorry. Go ahead. Α. 20 And so if you received documents in native form, Q. they would not have a Bates number on them; isn't that 21 22 correct? 23 Α. Most likely not, yes. 24 But at the top of this document, this is a Q. 25 Boeing proprietary document; isn't that correct?

1	A. That's what it states, yes.
2	Q. And this is for Mr. Mark Forkner again, correct?
3	A. Yes, his name is on this.
4	Q. And there's information on here regarding various
5	pay periods, pay rates, and also bonus information; isn't
6	that correct?
7	A. It appears that there's, yes, pay information on
8	here.
9	Q. Okay.
10	MS. MCFARLANE: Your Honor, the Government moves
11	to admit sorry. I'm saying "the Government." Defense
12	moves to admit Defense Exhibit 24G.
13	MR. O'NEILL: No objection.
14	THE COURT: 24G will be admitted.
15	(Defense Exhibit 24G was admitted into evidence.)
16	BY MS. MCFARLANE:
17	Q. Okay. If you can turn to page 10 of this exhibit,
18	Agent Byers. Are you there?
19	A. I am.
20	MS. MCFARLANE: Okay. If we can pull up this
21	exhibit, please. All right. If we can highlight line with
22	the cash award payment for August 12, 2016. On page 10 of
23	this document. There we go. Can we please highlight that
24	line? Okay.
25	///

1	BY MS. MCFARLANE:
2	Q. Agent Byers, for pay period August 12, 2016, how
3	much was the cash award payment that Mark Forkner received?
4	A. It looks like 2,500.
5	Q. \$2,500. Okay.
6	MS. MCFARLANE: Thank you. We can take that down.
7	BY MS. MCFARLANE:
8	Q. Agent Byers, back to the 57 million pages, 15
9	million documents, on direct, you talked with the Government
10	about a chat that Mr. Forkner engaged with Patrik
11	Gustavsson.
12	A. Yes, ma'am.
13	Q. And you know that Patrik Gustavsson was a friend
14	of Mr. Forkner's that worked in that worked in the same
15	group as Mr. Forkner; isn't that correct?
16	A. I know they worked together.
17	Q. Okay. And they communicated often; isn't that
18	correct?
19	A. They did communicate, yes.
20	MS. MCFARLANE: Okay. I want to pull up
21	Exhibit 22. It's a little blurry on my screen. I don't
22	know if it's blurry on anyone else's. Can you all see that?
23	BY MS. MCFARLANE:
24	Q. Can you see that, Agent Byers?

When it's pulled up, I can see it.

25

A.

1	Q. On direct examination, we only read parts of that
2	chat, so I would like to read the whole thing, if you don't
3	mind. This was November 15, 2016. And again, this was a
4	chat conversation; isn't that correct?
5	A. Yes, ma'am.
6	Q. It was not a formal email chain, correct?
7	A. Correct. It was a chat.
8	Q. Okay. Can you start reading that for us at the
9	top with Mark Forkner at 6:46 p.m.?
10	A. 6:46 in the call-out box that you've got here; is
11	that correct?
12	Q. I'm sorry?
13	A. What you want on the screen, is that correct, the
14	call-out box?
15	Q. Yes.
16	A. So it starts with Mr. Forkner stating, "Dude, log
17	off."
18	Mr. Gustavsson responds, "You, too. I just logged
19	on to check my schedule. I have so much to do that I want
20	to work from home. I can't get stuff done in the office."
21	And then Mr. Forkner responds back, "Naw, I'm
22	locked in my hotel room with an ice cold Grey Goose, and
23	I'll probably fire off a few dozen inappropriate emails
24	before I call it a night."
25	Q. Okay. Stop right there for me.

1	А.	Uh-huh.
2	Q.	What's Grey Goose?
3	A.	I assume he's talking about vodka.
4	Q.	Okay. Keep going.
5	A.	"LMAO."
6	Q.	Do you understand what "LMAO" stands for?
7	A.	Yes. As far as the text goes, yes.
8	Q.	It refers to laughing, correct?
9	A.	Yeah.
10	Q.	Okay. Keep going.
11	A.	Mr. Forkner responds, "This job is insane."
12		Mr. Gustavsson responds, "So did you get anything
13	done in the	he sim, today, or was it the normal chaos there?"
14	Q.	And you I'm sorry to interrupt. I have to
15	interject	a little bit, Agent Byers, but
16	A.	Sure.
17	Q.	on direct you said "sim" referred to the
18	simulator	, correct?
19	A.	Yes, ma'am.
20	Q.	And that's not the actual plane; it is a separate
21	sort of be	ox; is that correct?
22	A.	That is correct.
23	Q.	Okay. Keep going, please.
24	A.	Mr. Forkner responds saying, "Although it must be
25	easy compa	ared to working as a tech pilot for RYR."

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Mr. Gustavsson responds, "It's different here.
 1
                                                                We
 2
     are pretty busy here for sure."
               And Mr. Forkner responds, "Actually, this one is
 3
     pretty stable. I signed off some DRs, but there are still
 4
 5
     some real fundamental issues that they claim they're aware
     of."
 6
 7
          Q.
               Pause right there for me, Agent Byers. Based on
     your review of this email and other emails that put this one
 8
 9
     into context, "This one is pretty stable."
10
               What -- what does "one" refer to?
          A.
               I assume they're talking about the -- well, the
11
     simulator.
12
13
               The simulator. That's your understanding?
          0.
14
               And then it says, "I signed off on some DRs."
15
     What are "DRs"?
               I would assume he is referring to discrepancy
16
          Α.
17
     reports.
18
          Q.
               Discrepancy reports.
19
               And that's based on your investigation in
20
     reviewing other emails, correct, that you would know that
     "DR" is discrepancy reports?
21
22
               Yes, that's my --
          Α.
23
               MR. O'NEILL: I would object to the scope.
24
               THE COURT: Overruled.
25
     BY MS. MCFARLANE:
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1	Q. And it says, "But there are still some real
2	fundamental issues that they claim they're aware of."
3	Do you know who he's referring to when he says
4	"they"?
5	A. I don't know.
6	MS. MCFARLANE: Okay. Can we pull up the next
7	call box, please?
8	BY MS. MCFARLANE:
9	Q. Please proceed, Agent Byers.
10	A. Oh, I'm sorry. "What I hated about Ryanair was
11	the extreme pressure they put on people. Okay. That's
12	good."
13	Mr. Forkner responds, "So I just need to start
14	being a dick to make you quit?"
15	Mr. Gustavsson responds, "LOL, that's it."
16	Mr. Forkner responds, "All right. No more mister
17	Nice Guy." He went on to state, "Actually, I'd cry
18	uncontrollably if you left. I would ask for a sales job
19	or job in sales where I can just get paid to drink with
20	customers and lie about how awesome our airplanes are."
21	Mr. Gustavsson responded, "I would cry if anyone
22	in our group left."
23	Mr. Forkner responded, "Oh, shocker alert. MCAS
24	is now active down to M .2. It's running rampant in the sim
25	on me. At least that's what Vince thinks is happening."

1	Q. Okay. Pause right there for me. Mr. Forkner
2	says, "It's running rampant in the simulator on me." The
3	"sim."
4	You don't know what "it" what "it" means in
5	this chat, do you?
6	A. Well, he says
7	Q. "It's running rampant on the sim on me"?
8	A. We talked about MCAS going down. It's running
9	rampant, no.
10	Q. I'm sorry, I'm not understanding your answer.
11	You do not know what "it" is referring to in this
12	chat; is that correct?
13	A. Only in the context of what's written above it,
14	but I don't know what "it" by itself I guess, can you
15	rephrase that or repeat that? I'm sorry.
16	Q. Okay. Is it true that you do not know what
17	Mr. Forkner is referring to when he says, "It's running
18	rampant on the sim"?
19	A. "It's"? No.
20	Q. Okay. You do not know what that is? Okay.
21	And then it says, "At least that's what Vince
22	thinks is happening."
23	Based on your investigation, do you know who he's
24	referring to when he says "Vince"?
25	A. It's my understanding he's a colleague, but I

1	don't know. I did not
2	Q. What's what's his full name?
3	A. I don't know.
4	Q. You don't know the full name for Vince?
5	A. I don't. Others on the investigative team, I
6	believe, looked into some of that, but I don't recall his
7	name.
8	Q. Okay. Have you heard of a Vince Pupo?
9	A. I've heard the name.
10	Q. Okay. Do you know who Vince Pupo is?
11	A. I don't.
12	Q. Okay. Keep going.
13	A. "Oh, great. That means we have to update the
14	speed trim prescription in Vol 2."
15	Mr. Forkner responded, "So I basically lied to the
16	regulators unknowingly."
17	Mr. Gustavsson responded, It wasn't a lie. No one
18	told us that was the case."
19	Mr. Forkner responded, "I'm leveling at, like,
20	4,000 feet, 230 knots, and the plane is trimming itself like
21	crazy."
22	Q. Okay. Next call out, please.
23	A. "I'm like, what?"
24	Mr. Gustavsson responds, "That's what I saw on Sim
25	1, but on approach, I think that's wrong."

1	Mr. Forkner responded, "Granted, I suck at flying,
2	but even this was egregious."
3	Mr. Gustavsson goes on to state, "No. I think we
4	need Aero to confirm what it's supposed to be doing."
5	Q. Okay. Stop right there for me, Agent Byers.
6	A. Yes.
7	Q. Based on your investigation and your
8	understanding, who is Aero?
9	A. My understanding is that Aero is a group made up
10	of engineers.
11	Q. At Boeing?
12	A. Yes.
13	Q. Okay. The engineering group at Boeing? Okay.
14	So he says, "I think we need Aero to confirm what
15	it's supposed to be doing."
16	Again, what do you understand "it's" to be
17	referring to? Or do you know?
18	A. In the context of this?
19	Q. Yes.
20	A. Are you asking for my opinion?
21	Q. No, I'm not. Your understanding of this, if you
22	have one. Do you know? It's okay if you don't.
23	A. My understanding would either be MCAS or the
24	simulator.
25	Q. MCAS or the simulator?

1	A. Well, MCAS is part of the flight controls for the
2	simulator, so I'd assume the simulator.
3	Q. You would assume the simulator?
4	A. Right.
5	Q. Do you know if that's what he's referring to?
6	A. Beyond the context of this, no.
7	Q. Okay. Please keep going, the next line. "Vince
8	is going to get me"
9	MR. O'NEILL: Your Honor, I would object to the
10	form. Is there a question?
11	MS. MCFARLANE: I'm asking him to proceed reading.
12	THE COURT: Well, you want him just to read this
13	stuff?
14	MS. MCFARLANE: Yes, your Honor.
15	THE COURT: Okay. Do you have a question about
16	anything in particular or are you just wanting him to read
17	all of the
18	MS. MCFARLANE: I will have a question right after
19	he reads this next line.
20	THE COURT: Okay.
21	MS. MCFARLANE: And your Honor, just I'm sorry.
22	Did you rule?
23	THE COURT: Go ahead and read the next line.
24	THE WITNESS: Okay. Sorry. Lost my place here on
25	the screen. Mr. Gustavsson stated, "I don't know"

1	BY MS. MCFARLANE
2	Q. This is
3	A. Oh, I already read this line. I'm sorry.
4	THE COURT: Go ahead and read the next line.
5	THE WITNESS: I'm sorry. "Vince is going to get
6	some spreadsheet table that shows when it's supposed to kick
7	in. Why are we just now hearing about this?"
8	BY MS. MCFARLANE:
9	Q. Okay. Mr. Forkner says, "Vince is going to get me
10	some spreadsheet tables," and you mentioned that we've
11	talked about the 15 million documents that have been
12	received in this case.
13	Isn't it true that there was never a spreadsheet
14	table provided by Mr. Vince?
15	A. I don't know.
16	Q. You don't know?
17	Okay. Have you ever seen a spreadsheet table
18	provided by Mr. Vince?
19	A. I have not.
20	Q. Okay.
21	MS. MCFARLANE: Your Honor, I would like for him
22	to continue reading this. For the rule of completeness, I
23	believe that the government
24	THE COURT: Well, is this not in evidence?
25	MS. MCFARLANE: It is, your Honor.

1	THE COURT: Okay. Well, the jury will have it.
2	MS. MCFARLANE: Okay. May we proceed, just the
3	last few lines?
4	THE COURT: Say that again?
5	MS. MCFARLANE: Your Honor, may we proceed reading
6	the final few entries?
7	THE COURT: Well, it's in evidence. So do you
8	have a question about any of the specific lines?
9	Just direct him to the lines you want to ask him
10	about.
11	MS. MCFARLANE: Just the very next line, your
12	Honor.
13	THE COURT: Go ahead.
14	THE WITNESS: The next line, Mr. Gustavsson
15	responds, stating, I don't know. The test pilots have kept
16	us out of the loop. It's really only Christine that is
17	trying to work with us, but she is busy been too busy.
18	BY MS. MCFARLANE:
19	Q. Thank you, Agent Byers.
20	When Mr. Gustavsson says, "I don't know. The test
21	pilots have kept us out of the loop," who is he referring to
22	when he says "the test pilots"?
23	A. Test pilots would be people within Boeing.
24	Q. And is it your understanding that FAA also has
25	test pilots?

1	Α.	They do.
2	Q.	Okay. And when he says, "Christine" "It's
3	really on	ly Christine that is trying to work with us," do
4	you know	who he's referring to when he says "Christine"?
5	A.	In the context of this chat or with this work
6	group?	
7	Q.	If you have any knowledge on who he would be
8	referring	to when he says "Christine." Is that Christine
9	Walsh?	
10	A.	That would be my
11	Q.	Okay.
12	A.	Who I believe he would be referring to, yes.
13		MS. MCFARLANE: Okay. We can take this down.
14	BY MS. MC	FARLANE:
15	Q.	In the course of your investigation, Agent Byers,
16	you've al	so reviewed phone records, Boeing phone records,
17	other pho	ne records of pertinent individuals in this case;
18	isn't tha	t correct?
19	A.	The investigative team has, yes.
20	Q.	Have you?
21	A.	I don't believe I've gone through phone records,
22	no.	
23	Q.	But you have knowledge that others on the
24	investiga	tive team have, correct?
25	A.	Yes.

1	Q.	And you are familiar with a Mr. David Loffing;
2	isn't tha	t correct?
3	A.	I know who he is.
4	Q.	And who is he?
5	A.	He works for Boeing.
6	Q.	He's a Boeing employee? Do you know his position
7	at Boeing	1?
8	A.	I do not.
9	Q.	Okay. And do you are you aware of any records,
10	phone rec	ords of calls, between Mr. David Loffing and
11	Mr. Mark	Forkner?
12	A.	I am not.
13	Q.	You are not. Okay.
14		Do you know if any of those records exist?
15	A.	I don't know.
16	Q.	Okay. I want to pull up what I believe has
17	already b	peen admitted. I want to make sure. Yes.
18		Do you have your government exhibit binder
19	A.	I do.
20	Q.	there?
21	A.	Yes.
22	Q.	And you've looked at Government Exhibit 13 and
23	Governmen	at Exhibit 26; is that correct?
43		-
24	Α.	Yes.

1	MS. MCFARLANE: Can we pull up Government Exhibit
2	13, please?
3	BY MS. MCFARLANE:
4	Q. You went over this email on direct. I'm not sure
5	we read this on direct. Do you recall this email?
6	A. I'm familiar with this email, yes.
7	Q. Okay. And it's an email from Mark Forkner to
8	Stacey Klein at the FAA, correct?
9	A. Correct. And Aaron Perkins at the FAA, yes.
10	Q. And it talks about the fact that MCAS it
11	confirmed with flight control engineers that MCAS does live
12	in both FCCs.
13	And what had does "FCC" refer to?
14	A. Flight control computers.
15	Q. Flight control computers.
16	"And only needs one to function." Okay. He goes
17	on to say, "Are you okay with us removing all reference to
18	MCAS from the FCOM?"
19	This is the first communication from Mark Forkner
20	to Stacey Klein about MCAS; isn't that correct?
21	A. I'm not sure if there's more
22	Q. Written communication.
23	A. Written communication, I believe this is one of
24	the earlier ones.
25	Q. Right.

1	A. I'm not sure if it's the first.
2	Q. I'm sorry. I didn't hear you.
3	A. I don't know if it's the first, but but it is
4	an earlier communication.
5	Q. Have you seen an earlier written communication
6	from Mr. Forkner to Stacey Klein about MCAS?
7	A. I don't recall one.
8	Q. You don't recall one. Okay.
9	A. No.
10	Q. Okay. And this is March 30, 2016; is that
11	correct?
12	A. Yes, it is.
13	Q. All right. And then Government Exhibit 26, I
14	believe, has also already been admitted.
15	This is another communication from Mr. Forkner to
16	Ms. Klein at the FAA about MCAS; isn't that correct?
17	A. It is, yes.
18	Q. And he's reminding her that they weren't going to
19	cover it in the FCOM, and it's way outside the normal
20	operating envelope; isn't that correct?
21	MR. O'NEILL: Objection to the characterization of
22	evidence.
23	THE COURT: Overruled.
24	If you can answer the question, you can. If it
25	doesn't say what if it doesn't say what she says it is,

```
1
     go ahead and say what it says.
 2
               THE WITNESS:
                             Okay.
 3
     BY MS. MCFARLANE:
 4
          0.
               I can rephrase.
 5
               It says recall, "We decided we weren't going to
     cover it in the FCOM or the CBT." Doesn't it say that?
 6
 7
          Α.
               It states, "Under Flight Control Section, Delete
     MCAS recall. We didn't" -- "we decided we weren't going to
 8
 9
     cover it in the FCOM or the CBT since it's way outside of
10
     the normal operating envelope," yes.
               And this is another communication from Mark
11
          0.
12
     Forkner to Stacey Klein about MCAS; isn't that correct?
13
                     This was dated January 17 of 2017.
          Α.
14
          0.
               So that's two.
15
               And Government Exhibit 24 --
               That's two communications from Mr. Forkner to
16
17
     Ms. Klein regarding MCAS. Do you know if there are many
18
     more?
19
               I don't know the exact number, if there were any
          Α.
20
     more.
               Okay. Would it ring true to you that there are
21
          0.
22
     only three written communications from Mr. Forkner to
23
     Ms. Klein about MCAS?
24
          Α.
               I trust that's accurate.
25
               And that is out of 15 million documents that the
          0.
```

1	government has recovered, we have three written
2	communications from Mr. Forkner to Ms. Klein about MCAS.
3	That's correct?
4	A. Okay.
5	Q. Okay. And in those emails that we've just
6	reviewed, there is no mention from Mr. Forkner to Ms. Klein
7	about wind-up turns, correct?
8	A. In those communications, no.
9	Q. Right. That MCAS only functions within wind-up
10	turns. That's not said there; isn't that correct?
11	A. No. Wind-up turns was not said.
12	Q. Okay. And it does not even mention speed; that it
13	only operates in high speeds, for instance, does it?
14	A. Not in those communications.
15	Q. Okay. But both of those communications, they both
16	talk about it operating outside the normal operating
17	envelope; isn't that correct?
18	A. Yes.
19	Q. And what is your understanding of the normal
20	operating envelope?
21	MR. O'NEILL: Objection. Objection, foundation.
22	THE COURT: Okay. What do you say to that?
23	MS. MCFARLANE: If he has an understanding, your
24	Honor.
25	MR. O'NEILL: Your Honor, if I may? This is

summary witness testimony that the government has narrowed 1 2 and not undertaken in its direct. 3 THE COURT: Okay. Do you know what that means, 4 "operating out of the normal operating envelope"? Do you 5 know what that means? 6 THE WITNESS: I would only have to speculate on 7 that, your Honor. I'm not a pilot. THE COURT: Okay. All right. I will sustain the 8 9 objection because he would have to speculate. 10 BY MS. MCFARLANE: Agent Byers, but you would -- you would admit that 11 0. 12 that is the phrase that was used in both of those emails 13 from Mr. Forkner? 14 "The normal operating envelope"? Α. 15 Q. Correct. 16 Α. Yes. 17 Okay. Q. 18 MS. MCFARLANE: Your Honor, may I approach? 19 BY MS. MCFARLANE: 20 Agent Byers, do you recognize this document? Q. A. I'm not familiar with this one, no. 21 22 If you look at the bottom right-hand corner, are 0. 23 you familiar with that Bates number? 24 Α. Yes, there's also a Bates number in there. 25 And does "DOJ PROD" mean the Department of Justice Q.

1	produced this document?
2	A. Yes.
3	Q. And at the top of the document, does it refer to
4	it being Boeing's document?
5	A. Yes.
6	Q. And is this one of the documents that the
7	government received as part of your investigation?
8	A. I would assume so, based on that, yes.
9	MS. MCFARLANE: Your Honor, the defense moves to
10	admit Defendant's Exhibit 7.
11	THE COURT: He said he's not familiar with Defense
12	Exhibit 7.
13	MS. MCFARLANE: This is a business record from
14	Boeing that the government received, your Honor.
15	THE COURT: Okay. So you're saying that it's
16	authenticated, and it's a business record, so I will admit
17	the exhibit.
18	MS. MCFARLANE: Yes, your Honor.
19	THE COURT: So I will admit the exhibit. He's
20	saying he's never seen the exhibit, though. So go ahead.
21	The exhibit is admitted.
22	(Defense Exhibit 7 was admitted into evidence.)
23	MS. MCFARLANE: Thank you, your Honor.
24	If we can now publish this to the jury, your
25	Honor.

1		Mr. Payton, if you can pull up Defendant's
2	Exhibit 7	?
3	BY MS. MC	FARLANE:
4	Q.	This says at the top that it is this is a
5	Coordinat	ion Sheet, isn't that right, Agent Byers?
6	A.	That's what it states, yes.
7	Q.	And Coordination Sheet, I'm sure in your
8	investiga	tion you've learned that "COORD Sheet" refers to
9	Coordinat	ion Sheet?
10		MR. O'NEILL: Objection.
11	BY MS. MC	FARLANE:
12	Q.	Is that true?
13		THE COURT: Do you know the answer to that?
14		THE WITNESS: As far as this document goes, I'm
15	not famil:	iar with it. Coordination?
16		THE COURT: Do you know what but do you know
17	what "COO	RD Sheet" means?
18		THE WITNESS: I I have no basis on that, no.
19	BY MS. MC	FARLANE:
20	Q.	You don't know what "COORD Sheet" refers to?
21	A.	No.
22	Q.	Okay. No problem.
23		This is a Coordination Sheet.
24		MS. MCFARLANE: If you can take that down, please.
25	///	
	i e	

1	BY MS. MCFARLANE:
2	Q. And at the top, there's TOs and CCs. Do you see
3	that? The names there?
4	A. I do, yes.
5	Q. Do you see Mark Forkner's name listed there at
6	all?
7	A. I don't on this, no.
8	Q. And what's the date of this document?
9	A. Looks like March 30th of 2016.
10	Q. Okay.
11	MS. MCFARLANE: You can take that down.
12	If we can highlight that bold paragraph there, I
13	have a question for you about this, Flight Test Results.
14	BY MS. MCFARLANE:
15	Q. And I understand, Agent Byers, you don't know what
16	a COORD Sheet is, so I'm not going to ask you about that.
17	THE COURT: Well, but he's not even seen this
18	document. So why are you asking him questions about a
19	document he has not seen?
20	MS. MCFARLANE: Your Honor, I would like to ask
21	him about a subject matter that he's familiar with.
22	THE COURT: You can ask him about a subject
23	matter, but I don't understand why you're showing him this
24	document that he's never seen and directing him to portions
25	of the document.

1	MS. MCFARLANE: I can ask the question without
2	referring to the document, your Honor.
3	THE COURT: Go ahead.
4	MS. MCFARLANE: We can take that down, Mr. Payton.
5	MR. O'NEILL: And your Honor, we would object to
6	the summary to eliciting of summary testimony that has
7	been the subject of a ruling of this case.
8	THE COURT: You will have to say that one more
9	time. I didn't hear you. Speak up good and loud.
10	MR. O'NEILL: We object, your Honor, to the
11	questions that would essentially elicit what's close to
12	summary testimony in light of prior rulings in this case.
13	THE COURT: Okay. I'm not sure what you mean by
14	"prior rulings of the case." I know the subjects that I've
15	ruled on. So object if this gets into one of those
16	subjects.
17	MR. O'NEILL: Yes, your Honor.
18	BY MS. MCFARLANE:
19	Q. In the course of your investigation, Agent Byers,
20	are you aware that MCAS, the system, was changed at some
21	point?
22	A. Yes, at some point.
23	Q. Okay. Do you know when?
24	A. I don't know.
25	Q. Okay. And do you know how it was changed?

1	A. I understand from a high level how it was changed,
2	yes.
3	Q. Can you explain that?
4	A. So it's the
5	MR. O'NEILL: Objection. Hearsay.
6	THE COURT: Okay. What's your response to that?
7	MS. MCFARLANE: He's speaking of his understanding
8	and how do you understand I can lay the foundation, your
9	Honor, if necessary.
10	MR. O'NEILL: Your Honor, may we approach?
11	THE COURT: No. That objection is sustained.
12	MS. MCFARLANE: Okay.
13	BY MS. MCFARLANE:
14	Q. You mentioned you understood. How do you
15	understand, Mr before saying what your understanding is?
16	MR. O'NEILL: Objection, calls for hearsay.
17	THE COURT: Well, he you can answer how it is
18	you've come to understand this.
19	THE WITNESS: Just through the course of the
20	investigation from others.
21	THE COURT: From other people in the
22	investigation? Is that what you're saying?
23	THE WITNESS: I'm sorry. You have to repeat the
24	question here. As far as the basis of my understanding? As
25	far as can you repeat the question? I'm getting lost

```
1
     here.
            I'm sorry.
 2
               MS. MCFARLANE: No problem. I will repeat.
 3
     BY MS. MCFARLANE:
 4
               I asked you if you understood that MCAS had
 5
     changed at some point. You said yes.
               And my question is, what is the basis -- how do
 6
     you know that? What's the basis of that understanding,
 7
     without saying what that understanding is?
 8
 9
               THE COURT: How did you learn that it changed?
10
               THE WITNESS: From others, other people that have
11
     conveyed information through the course of the
12
     investigation.
13
               THE COURT:
                           Okay.
14
                             There's a specific document --
               THE WITNESS:
15
               THE COURT: Hold on.
16
               THE WITNESS: I'm sorry.
17
               THE COURT: Wait for the next question.
18
               THE WITNESS:
                             Okay.
19
     BY MS. MCFARLANE:
20
               When you say you learned from others --
          Q.
21
               Yes.
          Α.
22
               -- within this investigation, who are you -- who
          0.
23
     are you talking about?
24
          Α.
               Other -- well, a variety of things. So it's an
25
     investigative team, so there's other people on the team and
```

then there's individuals that we've interviewed along the 1 2 Although I've interviewed some people, I have not 3 interviewed, by any means, most, or all of the people. 4 information would be passed along just in the course of the 5 investigation. So that's kind of my general understanding. I couldn't pinpoint a particular individual or time 6 7 regarding that. MS. MCFARLANE: Your Honor, I don't want to go 8 into this --9 10 THE COURT: It sounds like it would be hearsay at 11 this point. 12 MS. MCFARLANE: Okay. I can move on from that, 13 your Honor. 14 Can I also see Defense Exhibit No. 9, please. 15 May I approach, your Honor? 16 THE WITNESS: Thank you. 17 BY MS. MCFARLANE: 18 Agent Byers, I've just handed you what's been 19 premarked as Defendant's Exhibit No. 9. If you can look at 20 the bottom right-hand corner, do you recognize those Bates 21 numbers? 22 Α. Yes. 23 And does "DOJ PROD" mean that the government 0. 24 received -- or produced this document to us; is that 25 correct?

1	A. Correct, yes.
2	Q. And do you recognize this to be emails between
3	Boeing employees; is that correct?
4	A. That's correct.
5	Q. And attachment?
6	A. That's what it appears, yes.
7	Q. And this was document this was a document that
8	the government received from the Boeing Company; is that
9	correct?
10	A. Correct.
11	MS. MCFARLANE: Your Honor, the defense would move
12	to admit Defense Exhibit No. 9.
13	MR. O'NEILL: Objection, relevancy and hearsay.
14	MS. MCFARLANE: This is an official business
15	record, your Honor.
16	THE COURT: So you have business record affidavit?
17	MS. MCFARLANE: Yes, your Honor.
18	THE COURT: All right. And then he says so how
19	is it relevant?
20	MS. MCFARLANE: Your Honor, this is the CSID
21	document that discusses the MCAS that was never updated.
22	MR. O'NEILL: Your Honor, it does not appear that
23	Mr. Forkner is on these documents. I would object to its
24	relevance.
25	MS. MCFARLANE: Again, it's a

1	THE COURT: Overruled.
2	Exhibit 9 will be admitted.
3	MS. MCFARLANE: Thank you, your Honor.
4	(Defense Exhibit 9 was admitted into evidence.)
5	BY MS. MCFARLANE:
6	Q. Okay. If we can turn to page 3 of this document,
7	Agent Byers, the title of this document is "Crew Systems
8	Interface Document."
9	Have you seen this document before?
10	A. I'm not familiar with this document.
11	Q. Have you ever seen a Crew Systems Interface
12	Document, just generally?
13	A. I'm not overly familiar with it. I couldn't
14	recall seeing something like this before.
15	Q. Okay. And are you familiar with the term "CSID"
16	at all?
17	A. No.
18	Q. Okay. Thank you.
19	MS. MCFARLANE: We can take that down.
20	May I approach, your Honor?
21	THE WITNESS: Thank you.
22	BY MS. MCFARLANE:
23	Q. I've just handed you, Agent Byers, what has been
24	premarked as Defense Exhibit 89 and 246. Do you see that?
25	A. I do, yes.

1	Q. And if you look at both of those documents, they
2	both have DOJ PROD Bates numbers, which means that they've
3	been produced to us by the government; is that correct?
4	A. Yes, ma'am.
5	Q. And these are, again, both Boeing documents that
6	the government received; isn't that correct?
7	A. It appears so, yes.
8	MS. MCFARLANE: Okay. Your Honor, the defense
9	moves to admit Defendant's Exhibit 89 and 246 as official
L0	business records.
L1	MR. O'NEILL: Your Honor, no objection to 89, but
L2	the government objects to Defense Exhibit 246, outside the
L3	scope of the scheme charged, and the defendant is not on the
L 4	document. So we object to relevance.
L5	MS. MCFARLANE: Again, your Honor, this is
L6	relevant to the official Boeing records that have either
L7	that have not updated the description of MCAS.
L8	THE COURT: Okay. That will be overruled. Those
L9	two will be admitted.
20	(Defense Exhibits 89 and 246 were admitted into
21	evidence.)
22	BY MS. MCFARLANE:
23	Q. Now, if we look at Exhibit 89 this will be
24	fast I believe you already testified that you do not
25	recognize the Crew Systems Interface Document; is that

1	correct?	
2	A. That is correct.	
3	Q. Okay. And both of these documents are Crew	
4	Systems Interface Documents, or CSIDs, correct?	
5	A. That's what it appears, yes.	
6	Q. Okay. So we won't ask you about those. You can	
7	take that down.	
8	I would like to go to I have some questions	
9	about some of the documents that the government discussed	
10	with you on direct examination.	
11	If you turn to Government Exhibit 4, please, in	
12	your binder. Do you have that document in front of you?	
13	A. Yes, ma'am, I do.	
14	Q. You testified to this document. Do you know	
15	MS. MCFARLANE: Can we pull that up, please,	
16	Government Exhibit 4 and highlight from the top through the	
17	content of the email, please.	
18	BY MS. MCFARLANE:	
19	Q. Do you know who Katie Younkin is, Agent Byers?	
20	A. I believe she's somebody within The Boeing	
21	Company.	
22	Q. I'm sorry. I can't hear you.	
23	A. I believe she's somebody within The Boeing	
24	Company.	
25	Q. Do you what department she's in?	

1	A.	I do not.
2	Q.	Okay. And the government highlighted the first
3	sentence.	"One of the prime program directives is that the
4	NG to MAX	differences training level cannot exceed Level B."
5	Do you see	e that?
6	A.	I do, yes.
7	Q.	What is your understanding of what "program"
8	refers to	?
9	A.	I don't know.
10	Q.	You don't know? Okay.
11		And it talks about a financial penalty. And you
12	said "SWA	refers to Southwest Airlines
13	A.	Yes, ma'am.
14	Q.	right?
15		Have you reviewed those contracts with Southwest
16	Airlines?	
17	A.	I've seen some of Southwest's documents reflected.
18	The sales	contract, yes.
19	Q.	But you don't understand the contract language
20	within the	ose documents, correct?
21	A.	I understand some of the contract language
22	associated	d with them, yes.
23	Q.	Are you an attorney?
24	A.	No.
25	Q.	Okay. Do you know any of the legal contract

1	language	and what that means within those contracts?
2	A.	How so? Sorry.
3	Q.	You said you understand some of the language.
4	A.	Right.
5	Q.	Okay. Did you review specifically the provision
6	that's me	ntioned here about a financial penalty?
7	A.	The investigative team did, yes.
8	Q.	Did you? I'm sorry.
9	A.	Did I?
10	Q.	Yes.
11	A.	Not the direct reference.
12	Q.	So that's "no"?
13	A.	No.
14	Q.	Okay. So you don't have an understanding about
15	what that	specifically means?
16	A.	Oh, I have an understanding, yes, based on what we
17	learned t	hrough the investigation.
18	Q.	Based on what you've learned in the investigation?
19	A.	Yes, ma'am.
20	Q.	And I'll ask you the same question I asked
21	earlier:	How did you learn that?
22	A.	Through another agent that specifically reviewed
23	that cont	ract.
24	Q.	Through another agent that reviewed the contract?
25	A.	Yes.

1	Q.	Okay. So but you don't know yourself?
2	A.	Not directly.
3	Q.	Okay.
4		MS. MCFARLANE: Let's go to No. 8, please.
5	BY MS. MC	FARLANE:
6	Q.	The government reviewed with you the top of this
7	email on	direct examination. Do you recall that?
8	A.	Yes.
9	Q.	And it talks about that last line says, "We
10	must obtain Level B for RCAS."	
11	A.	Yes.
12	Q.	RCAS is not MCAS, correct?
13	A.	Correct.
14	Q.	And you're not familiar with what RCAS is, are
15	you?	
16	A.	I believe it's another system, but I'm not
17	familiar	with the details of it, no.
18	Q.	You're not familiar?
19	A.	No.
20	Q.	Okay. And it says, "It's a planet killer." He
21	says, "It	's a planet killer."
22		Is that your understanding that's hyperbole in
23	this emai	1?
24	A.	Yes.
25	Q.	It's not really a planet killer, right?

Well, I don't know the context in which he was 1 Α. 2 writing it, but I can only assume the context by which I 3 would be reviewing it as; it is not actually a planet 4 killer. 5 It's not actually a planet killer? 0. Rather, a reference to most likely something else, 6 Α. 7 a movie. 8 Okay. Referencing a movie? Q. 9 Α. Correct. 10 And in your reviewing emails from Mr. Forkner, he Q. does that a lot, isn't that right, reference movies? 11 12 Α. At times. 13 Uh-huh. Q. 14 Okay. If we can go to No. 12, MS. MCFARLANE: 15 please. BY MS. MCFARLANE: 16 17 0. This is an email from Mr. Forkner dated March 8, 18 2016, about flight controls. Do you recall going over this 19 email with the government? 20 Α. Yes. And he says here, "The flight controls module was 21 Q. 22 updated with a thorough review of the flight control 23 engineers." 24 And Mark Forkner is not a flight control engineer, 25 correct?

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1	A. Corre	ect.
2	Q. He's	not an engineer at all?
3	A. Not t	that I am aware.
4	Q. And	flight controls module," do you know what
5	that refers to	? "Module"?
6	A. Only	within the context of the email. I'm not
7	sure I could un	npack it much further for you than that. As
8	far as do I	know I'm aware I have a general
9	awareness of wh	nat it is.
10	Q. I'm	only asking in the context of this email. Do
11	you refer do	you know what "flight controls module"
12	refers to?	
13	A. In th	ne context of this email, yes.
14	Q. And v	what is that?
15	A. Well,	it's system on the aircraft.
16	Q. The r	module is the system on the aircraft?
17	A. I'm s	sorry?
18	Q. "Modu	ıle"?
19	A. Yes.	
20	Q. Is th	nat the system on the aircraft
21	A. No,	it's a part of aircraft.
22	Q or	r is that the training program?
23	A. As fa	ar as the details of that, I couldn't tell
24	you.	
25	Q. So yo	ou don't know what "module" is?

1 Only with respect to the changes that were Α. 2 referenced in the email. I'm sorry, Agent Byers. I just want to know if 3 0. you know what "module" is when he refers to a "flight 4 5 controls module." It's okay to say you don't know, if that's the truth. 6 Only with respect the attachment that he sent. 7 Α. mean, I'm not an engineer myself, so from that standpoint, I 8 9 don't know. 10 Are you saying that "module" refers to the 0. attachment? 11 12 Α. What I'm saying is the reference to the No. 13 module that's in the attachment, the description provided is 14 all I can tell you about as far as -- I don't know in great 15 detail what a flight control module is other than it's associated with an aircraft. 16 17 Okay. So you don't know what a flight control 0. 18 module is? 19 THE COURT: He's answered the question. 20 MS. MCFARLANE: Okay. I just want to be clear. 21 BY MS. MCFARLANE: 22 Within this document, I want to refer to -- you 0. 23 went over with the government the reference to MCAS, page 7 24 of 13. 25 Can we go to page 7 of that, MS. MCFARLANE:

please. If we can highlight the very bottom, just the 1 2 bottom part. I only have a question about. 3 BY MS. MCFARLANE: 4 Okay. Do you see on page 7 of 13 at the bottom 0. 5 "Read" column there, Agent Byers? Can you read that? The portion you've highlighted states, 6 Α. Sure. "Maneuvering Characteristic Augmentation System, MCAS. MCAS 7 duplicates NG approach to stall." 8 9 And if we can go to the next page, it just 10 continues on there, that small box, top of the next page. 11 "Fuel forces at cruise Mach numbers by Α. Okay. automatically commanding nose-down stabilizer trim in 12 certain high angle of attack and high airspeed conditions. 13 14 This functionality only functions well outside the normal 15 operating envelope." That phrase "well outside the normal operating" 16 0. envelope," it's familiar; isn't that correct? 17 18 Α. Yes. 19 And isn't that the very same phrase that Mark **Q.** 20 Forkner used in emailing Stacey Klein at the FAA? 21 Α. It is, yes. 22 And this is a document that was updated with a 0. 23 thorough review by the flight control engineers, correct? 24 Α. Yes. 25 Q. Okay.

1 THE COURT: Okay. Why don't we go ahead and take 2 our morning break. Why don't we take about a 10-minute 3 break, then we'll get you back down here and keep going 4 through the case. 5 (A recess was had.) 6 (The jury was brought into court.) 7 THE COURT: Okay. Please be seated. Thank you, your Honor. 8 MS. MCFARLANE: 9 Let's go to the Government's Exhibit 10, please. 10 BY MS. MCFARLANE: 11 Do you recall, Agent Byers, you went over this **Q.** 12 document with the government on Direct, and this is Mark 13 Forkner's chat with colleague, Ross Chamberlain, at Boeing? 14 Yes, ma'am. Α. And at the top of the chat, they start off by 15 Q. saying "Yo" to each other, so this is a pretty informal chat 16 17 with colleagues at Boeing, correct? 18 Α. It appears to be, yes. 19 And if we go down, Ross Chamberlain at 7:59 a.m --**Q.** 20 if we could highlight that. It says, "Funny, I was going to say the same. 21 22 think we make our money at this meeting by getting them to 23 buy into the training and evaluation plans. 24 unfortunate that Roman won't be here. He can corral Stacey 25 and quide her."

You said on the record "Stacey" refers to Stacey 1 2 Klein. 3 That's correct. Α. And Roman is also sort of the counterpart to 4 0. 5 Stacev. He's at the FAA with Canada, Transport Canada; isn't that right? 6 7 Α. I don't know. And when they -- Ross refers to Roman corralling 8 0. 9 Stacey, that's his -- her counterpart at Transport Canada, 10 the Canadian FAA? 11 MR. O'NEILL: Objection. Asked and answered. 12 THE COURT: Well, he said he didn't know who Roman 13 was, so sustained. 14 MS. MCFARLANE: I'll move on. BY MS. MCFARLANE: 15 16 0. If we go to Government's Exhibit 14. 17 And, again, this is an email that you read just a 18 line from on direct. And so I would like to give a little 19 bit more context here. 20 Can you read the top line of this email that Mark Forkner sent May 20th, 2016, and he sent it to Steven and 21 22 Those are sales and marketing people at Boeing. Can Casey. 23 you start reading? 24 Α. Sure. "The training is actually at two hours 25 right now and probably won't go past three by the time we're

25

Q.

1 There really isn't too much to train. done. It's an NG 2 with bigger displays, a few new alerts that we were required 3 to put on the jet by the regulators. There is no backup plan if we don't get Level B. We're going to get Level B. 4 5 The program won't allow anything but that to happen." 6 Q. And sorry. Stop there. And when Mark Forkner says, "the Program," he's 7 referring to the MAX program; isn't that right? 8 9 I'm not sure what program he's referring to. Α. 10 You've seen that term, "the Program" often through Q. 11 his emails. 12 Right. I would assume it's the MAX program. Α. 13 The MAX program. Okay. Keep going. Q. 14 "RCAS was Level B, as determined by the AEG a few Α. 15 weeks ago. We're beginning to distribute the 30-minute CBT 16 to customers on request now. The pitch I send you is what 17 we're giving all MAX customers. We won't be breaking it 18 down into timing for each subsystem." 19 And, again, RCAS is not MCAS. That's a separate 0. system; isn't that right? 20 21 Α. Right. 22 And he says that Level B was determined by the AEG 0. 23 related to RCAS; isn't that right? 24 Α. Correct. He states that in his email.

All right. If you would go to Government's

- Vol 2 March 21, 2022 Exhibit 16, please. You read this -- part of this email on 1 2 Again, this is Mark Forkner emailing lots of people at Boeing after the AEG gave provisional Level B approval; 3 4 isn't that right? 5 Α. That's correct, yes. And if we look to the second page, the second 6 Q. 7 paragraph, can you read starting there with "This is provisional approval." 8 9 Sure. "This is provisional approval pending the 10 final Part 25 type certification and assuming no significant systems change to the airplane. The FAA will be sending us 11 a provisional approval letter within the next two weeks 12 13 documenting the Joint Flight Operations Evaluation Board 14 acceptance of this finding. FAA, Transport Canada, and EASA 15 are now considered to have accepted this Level B determination." 16 17 And FAA Transport Canada and EASA are also 0. 18 counterparts for different countries; isn't that right? 19 That's my understanding, yes. Α. 20 So FAA is for America, correct? Q. 21 For the United States, yes. Α. 22 Keep going, please. Q. Okay.
 - "This culminates more than three years of tireless Α. and collaborative efforts across many business units.
- 25 Flight Technical, Flight Technical Data, training,

23

24

development, Flight Deck Crew Ops, all MAX engineer teams, 1 2 Flight Test Engineering and, of course, Ed Wilson's 3 Engineering Test Pilot team, all should be commended for 4 their efforts in getting us to the finish line. 5 "CAS communications and 737 program communications are jointly crafting a BNN article to be released on receipt 6 of the FAA's provisional approval letter." 7 Thank you. If we can go to this -- the 8 Q. Okay. 9 first page of this. As you said on direct, Keith Leverkuhn 10 responded, "Fantastic news, Mark." And Keith Leverkuhn is sort of the big boss at 11 12 Boeing -- one of the big bosses at Boeing; is that correct? 13 Α. I understand he's executive level. 14 He's executive level at Boeing? 0. 15 Α. That's my understanding. And he says, "Fantastic news, Mark. Just a huge 16 0. 17 win for the team, for Boeing, and for our customers. We can 18 now eliminate the longest-standing risk on the 737 MAX 19 program." 20 Again, there's that word "program." So the MAX --"the program" refers to the MAX program, as we said before. 21 22 And then Mark replies, "The program is very happy. 23 See below." Do you see that? 24 Α. Yes, I do. And in your investigation of this case, you 25 Q.

1 understand that the program set the expectation for the MAX 2 to be at Level B; isn't that correct? 3 I'm not sure who set the expectation as Level B. Α. Meaning, Boeing set the expectation for the MAX to 4 0. 5 be at Level B before Mark even came, is that correct, based 6 on your investigation? 7 Α. I don't know when that goal was established. But you know it was established above Mark 8 0. 9 Forkner? 10 Α. I'm sorry? 11 You know that that goal was established above Mark 0. 12 Forkner within Boeing? 13 Α. With -- based on the emails, that's correct. 14 0. That's correct. Okay. 15 MS. MCFARLANE: If we can go to Government 16 Exhibit 17, please. 17 BY MS. MCFARLANE: 18 You talked about this email with the government 19 related to Mark Forkner reaching out to discuss the 787 20 chief technical pilot position. Do you recall that? 21 Α. Yes. 22 And at this time, Mark Forkner was the chief tech 0. 23 pilot for the 737 MAX, correct? 24 Α. For the MAX, yes. 25 And the 787 is just a different type of air -- a Q.

25

1	different type of the plane, correct?
2	A. It's a different model of aircraft.
3	Q. A different model. But it's the same position,
4	chief tech pilot; isn't that correct?
5	A. Of a different aircraft, yes.
6	Q. Right. So this was a lateral request for a
7	lateral position, not a promotion?
8	A. I don't know if there was any promotion involved
9	on it, as far as if there was compensation or anything of
10	that nature. It's a different position.
11	Q. And it says within this email, "I'm wondering"
12	the second line "I'm wondering if that might be the best
13	thing for both myself and the whole Flight Tech Team,"
14	correct?
15	A. Yes.
16	Q. He's also looking out for Patrik, who is Patrik
17	Gustavsson, who is also in this group; isn't that right?
18	A. Yes.
19	Q. And looking for Patrik Gustavsson to fill his role
20	as chief tech pilot of the 737; isn't that correct?
21	A. It appears so, yes.
22	Q. Okay. If we can go to Government Exhibit 19.
23	This is another email that you read on direct. I would like
24	to just give a little bit of context.

This was dated November 3rd, 2016, from Mr. Mark

Forkner to others at Boeing. And within this email, I would 1 2 like you to read that first -- the first two top paragraphs 3 if you could. Okay. He stated, "This must be fixed prior to 4 Α. 5 EIS. We went out of our way in the FD requirements to minimize the training impact of the BRM logic, and one of 6 the keys to that is to allow the start to look normal by 7 having the crew observe an increasing N2 without the 8 9 monitoring queue on its way up to 25 percent. We've already 10 built and certified the training with the regulators based on this logic. We've already socialized with dozens of MAX 11 12 This was the design intent and what the customers. 13 regulators and customers expect. 14 "Remember, we only have provisional approval for 15 Level B and for the CBT, as presented to the regulators. This would be an appreciable change to both the airplane and 16 the training that would risk our Level B determination. I 17 18 need to know ASAP if this will not be fixed prior to EIS, as 19 we will have to negotiate this with the AEG." 20 And as you've mentioned on direct, Agent Byers, Q. the AEG was referring to Ms. Stacey Klein, correct? 21 22 Α. Correct. 23 And he's telling others at Boeing that something 0. 24 needs to be fixed; otherwise, he would have to go back to Ms. Klein to talk about it, correct? "We would have to 25

1	negotiate"			
2	A. "We would have to negotiate with the AEG," yes.			
3	Q. Okay. And he also mentioned that he understands			
4	that the approval for Level B is only provisional; isn't			
5	that correct?			
6	A. Yes, he states that.			
7	Q. Okay. I would like to go to Government Exhibit			
8	21. Again, this is another email that you read parts of on			
9	direct. I would like to give more context.			
10	If we go down to starting with email from			
11	Steven Burrington on November 10th of 2016, page 2.			
12	No. It's November 10th, 2016, at 7:33 a.m.			
13	MS. MCFARLANE: Can you hear me okay, Mr. Payton?			
14	There you go.			
15	BY MS. MCFARLANE:			
16	Q. And this this is November 10th. Is isn't that			
17	right, Agent Byers?			
18	A. Yes, November 10 of 2016.			
19	Q. And at this point in time, Boeing had received the			
20	provisional Level B training, correct?			
21	A. Correct.			
22	Q. And this was a few days before the chat, correct?			
23	A. That's correct			
24	Q. All right.			
25	A the November 15 chat. There's a couple chats,			

1	but the November 15th chat.			
2	Q. November 15th chat. That's right.			
3	Can you read starting with "Sean, while training,"			
4	please.			
5	MR. O'NEILL: Objection. Is there a specific			
6	question? The jury has the exhibit in evidence.			
7	THE COURT: Yes. Is there something you want to			
8	point to, because this is in evidence?			
9	MS. MCFARLANE: Yes, your Honor, there is. The			
10	very first sentence.			
11	BY MS. MCFARLANE:			
12	Q. It says, "While training would be one			
13	consideration in making the MAX behavior different than the			
14	NG, there's also just the impact and risk of having a			
15	difference between the models." Correct?			
16	A. Correct, as stated there, yes.			
17	Q. And the impact between the models is sort of the			
18	impact of having a safety issue, in having differences			
19	between models, correct?			
20	MR. O'NEILL: Objection, calls for speculation.			
21	BY MS. MCFARLANE:			
22	Q. Do you know?			
23	THE COURT: Do you know?			
24	THE WITNESS: Can you repeat your question again?			
25	I'm sorry.			

1	BY MS. MCFARLANE:		
2	Q. When they're talking about differences between the		
3	models, correct?		
4	A. Yes.		
5	Q. And the two models we're talking about would be		
6	the NG, 737 NG, and the 737 MAX, correct?		
7	A. Yes. Those are the two referenced here.		
8	Q. And we're looking they are talking about the		
9	differences in changes between the MAX to the NG, correct?		
10	A. Yes.		
11	Q. Okay. And one of the considerations they talk		
12	about, in considering differences, would be training,		
13	correct?		
14	A. Yes, that's what it references.		
15	Q. All right. And other considerations would be		
16	impact and risk of having differences, correct?		
17	A. I'm sorry. You're asking me to speculate on that?		
18	Q. I'm not. I'm asking you, is that what it says in		
19	this email?		
20	It says, "Impact and risk and training"; isn't		
21	that right?		
22	A. I'm sorry. Where exactly are you referring to?		
23	I'm sorry. "There's just the impact and risk of having		
24	differences between the models." Yes, as referenced.		
25	Q. Okay. Okay. And on direct you also read the		

And I'm not going to read it all here because 1 above email. 2 the jury will have this, as we've said. But Mr. Forkner 3 says, again -- if you look where it says, "in my opinion," 4 just above his signature block. 5 Α. Yes. It says, "In my opinion, this must be fixed prior 6 Q. to the EIS. 7 The impact to our customers is too great." And the customers that Mr. Forkner is referring to 8 9 are the airlines; isn't that correct? 10 Α. Yes. 11 0. Boeing's customers are airlines, like Southwest Airlines, American Airlines, correct? 12 13 Α. Yes, ma'am. 14 And what he's saying is, this must be fixed prior 0. 15 to EIS. The impacts are -- to Southwest and American is too 16 great, is that correct, as an example? 17 Α. Yes, it appears so. Okay. And then at the very top of the first page 18 Ο. 19 of this email, Mr. Forkner is talking to Christine Walsh. 20 And you've testified already that Christine Walsh is another Boeing employee in the Flight Test Crew, right? 21 22 Α. She is, yes. 23 She is like the Top Gun test pilot, Christine 0. 24 Walsh? 25 MR. O'NEILL: Objection.

1	BY MS. MCFARLANE:			
2	Q. Is that what you understand her to be?			
3	A. I don't know exactly what her role is.			
4	Q. Okay. But you understand her to be in the test			
5	crew, correct?			
6	A. I know she's			
7	Q. The flight test crew?			
8	A a group within Boeing, yes.			
9	Q. Okay. And Mark Forkner says, "No. No one listens			
10	to our inputs anyways. We are just peons. Everybody wants			
11	to change procedures without any regard for the impact to			
12	the crews. The emergency descent thing is a perfect			
13	example. But when our training level determination gets			
14	reversed because the program is too cheap to fix these			
15	issues prior to EIS and proceduralizes around all these			
16	last-minute issues, I'm the one who's going to take the			
17	fall. I'm really fed up."			
18	That's Mark Forkner, right?			
19	A. Yes.			
20	Q. Okay. And this is the same issue that he's been			
21	saying to Boeing employees, to fix the EIS issue?			
22	MR. O'NEILL: Objection, calls for speculation.			
23	BY MS. MCFARLANE:			
24	Q. Based on your review of this document.			
25	THE COURT: Do you know?			

1	THE WITNESS: I don't know.			
2	THE COURT: Okay.			
3	Ask your next question.			
4	BY MS. MCFARLANE:			
5	Q. Government Exhibit 11. The government had you			
6	talk about this on direct examination.			
7	At the top two lines, Mark Forkner is writing to			
8	Ross Chamberlain. And Patrik Gustavsson was also in this			
9	group. And he says, "Patrik remembered the three tools to			
10	instructing with her: Fear, sarcasm, and ridicule."			
11	Agent Byers, have you served in the military?			
12	A. No.			
13	Q. "Fear, sarcasm, and ridicule" is a common phrase			
14	used in the Air Force. Are you aware of that?			
15	A. No.			
16	Q. Are you aware that Mr. Forkner served in the Air			
17	Force?			
18	A. That's my understanding, yes.			
19	Q. Okay. And when Mr. Forkner writes, "Instructing			
20	with her," he's referring to instructing helping her in			
21	the simulator; isn't that correct?			
22	MR. O'NEILL: Objection.			
23	BY MS. MCFARLANE:			
24	Q. Do you know?			
25	A. I don't know.			

1				
1	Q. Okay.			
2	MS. MCFARLANE: Your Honor, if I may have a moment			
3	to confer?			
4	No further questions, your Honor.			
5	MR. O'NEILL: Briefly, your Honor?			
6	REDIRECT EXAMINATION			
7	BY MR. O'NEILL:			
8	Q. Special Agent Byers, Ms. McFarlane asked you on			
9	cross-examination a number of questions about Mr. Forkner's			
10	salary and how much money he made. Do you recall those			
11	questions?			
12	A. I do, yes.			
13	MR. O'NEILL: Can we pull up what's in evidence as			
14	Government Exhibit 15, please. If we could blow up the			
15	highlighted portion.			
16	BY MR. O'NEILL:			
17	Q. Special Agent Byers, when the defendant wrote			
18	regarding his the airplane project with the AEG, and he			
19	wrote, "If I pull this off, I'll be a hero," did he put a			
20	dollar figure on that?			
21	A. No, sir, he did not.			
22	MR. O'NEILL: If we could please turn to what's in			
23	evidence as Government Exhibit 17. If we could please call			
24	out the top portion of the message.			
25	///			

24

25

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1	BY MR. O'NEILL:			
2	Q. Special Agent, you will recall that the date of			
3	this email was August 16, 2016?			
4	A. Yes, sir.			
5	Q. That was the same day that the defendant wrote to			
6	his colleagues about provisional Level B approval for the			
7	MAX?			
8	A. Correct.			
9	Q. When the defendant wrote to Mr. Taylor at Boeing			
10	that "I'd like to discuss the 787 Chief Technical Pilot			
11	position with you, and he continues, "I'm wondering if it			
12	might be the best thing for myself and the whole team now			
13	that we've achieved Level B," did he put a dollar figure on			
14	that?			
15	A. No, sir.			
16	Q. On cross-examination, Ms. McFarlane asked you some			
17	questions about the Southwest Airlines contract provisions.			
18	Do you recall those questions?			
19	A. I do, yes.			
20	Q. And you were asked your understanding of those			
21	provisions. Do you remember that?			
22	A. Yes.			
23	Q. In the course of your review, do you ever see any			

mistaken about financial penalties to Boeing if they did not

documents where Mr. Forkner said that he felt he was

1	achieve Level B training for the MAX?			
2	A. No.			
3	Q. On cross, you were also asked by Ms. McFarlane a			
4	number of questions about the volume of documents obtained			
5	during the course of your investigations. Do you remember			
6	those questions?			
7	A. Yes.			
8	Q. In the course of your investigation and review of			
9	documents, who wrote that he lied to the regulators?			
10	MS. MCFARLANE: Objection. Misstates the			
11	evidence.			
12	THE COURT: Overruled. The jury will remember the			
13	evidence.			
14	THE WITNESS: He stated that he did, Mr. Forkner			
15	did.			
16	BY MR. O'NEILL:			
17	Q. Did Mr. Forkner state that in a document?			
18	A. Yes, he did.			
19	MR. O'NEILL: Could we pull up Government Exhibit			
20	22, please, which is in evidence.			
21	BY MR. O'NEILL:			
22	Q. And this is the two-page chat communication that			
23	we talked about.			
24	MR. O'NEILL: Ms. Holbrook, could we pull up the			
25	two pages and call out the portions of the chat for			

Mr. Forkner and Mr. Gustavsson? 1 2 BY MR. O'NEILL: Now, Special Agent Byers, Ms. McFarlane asked you 3 0. on cross-examination a lot of questions about documents that 4 5 may talk about MCAS that Mr. Forkner didn't receive. recall those questions? 6 7 Α. Yes. Okay. Now, looking at Government Exhibit 22, the 8 0. 9 chat communication with Mr. Forkner, what does Mr. Forkner 10 say on November 15th, 2016, in his own words about how MCAS 11 operates? Down to Mach .2 -- or M .2. 12 Α. 13 After noting in this communication that MCAS is 0. 14 now active down to M, or Mach .2, what does Mr. Forkner 15 write with respect to regulators? 16 Α. So that he basically lied to the regulators, 17 unknowingly. 18 You were asked on cross a number of questions 19 about communications, Mr. Forkner's communication with 20 Ms. Klein, Ms. Stacey Klein. Do you recall those questions? 21 Α. Yes. 22 And you were also asked about the volume of 0. 23 documents collected in your investigation. Do you remember 24 those questions on cross? 25 Α. Yes, sir.

Special Agent, in over 57- -- approximately 57 1 0. 2 million pages -- I believe it was approximately 15 million 3 documents -- in how many of those documents did the defendant tell Ms. Klein that MCAS was expanded and now 4 5 active down to Mach .2? 6 Α. None. Special Agent Byers, in all of those documents 7 Q. that you collected in the course of this investigation, the 8 9 57 million pages, the 15 million documents, are you aware of 10 a single document where the defendant disclosed the 11 low-speed expansion of MCAS to anyone at the FAA? 12 Α. No, sir. 13 MR. O'NEILL: Nothing further, your Honor. 14 MS. MCFARLANE: One point, your Honor. 15 Your Honor, may I approach the witness? 16 RECROSS-EXAMINATION 17 BY MS. MCFARLANE: 18 Agent Byers, if you could take a look at the 0. documents I just handed to you. 19 20 Α. Sure. Just one moment. Let me move some of this 21 out of the way. 22 Just let me know when you're ready. Q. 23 Do you want me to look through all of them? Α. 24 Q. Yeah, if you could look through all of them, 25 please.

1 Α. Okay. 2 MR. O'NEILL: Objection, your Honor. Is there a 3 specific question? 4 THE COURT: Well, right now she's just asked him 5 to look at these documents. 6 Have you seen these documents before? 7 THE WITNESS: I do not recall these documents, 8 your Honor. 9 THE COURT: Okav. 10 BY MS. MCFARLANE: 11 0. Whenever you're ready, Agent Byers. 12 Is there any way we can speed it up? THE COURT: 13 He's not recognizing them. Is there anyway we can speed 14 this up? 15 MS. MCFARLANE: There is, your Honor. BY MS. MCFARLANE: 16 17 These documents, if you recognize at the bottom of 0. the right-hand corner, these are all Boeing records that the 18 19 government produced to us from Boeing that you all -- that 20 you and your investigation team received in the course of this investigation; isn't that correct? 21 22 Yes, I believe so. Α. 23 And they are all emails or chats from Boeing, from 0. 24 their official records that you, in your investigation, 25 received as part of this investigation, correct?

MS. MCFARLANE: Okay. Your Honor, the defense would like to offer Defense Exhibit 275 A through I. We have an authentication affidavit. THE COURT: 275 A through I; is that right? Go ahead. MR. O'NEILL: Your Honor, we object. These materials are irrelevant and beyond the scope of a very limited redirect. THE COURT: Okay. I'll defer ruling on this until we get a witness up here that this is pertinent to, and so it's not admitted at this time. MR. O'NEILL: It's also self-serving hearsay. MS. MCFARLANE: Your Honor THE COURT: Very good. Ask your next question. BY MS. MCFARLANE: Q. In reviewing the records in this case, Agent Byers, you've reviewed many emails from Mark Forkner; is that correct? A. I've reviewed some, yes. Q. And in reviewing those emails you have reviewed, oftentimes, Mr. Forkner says, "I lied"; isn't that correct? MR. O'NEILL: Objection, beyond the scope and relevance. Redirect about lies to the AEG, not lies in general.	1	A. Yes. It appears so, yes.	
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general.	24	relevance. Redirect about lies to the AEG, not lies in	
	25	general.	

	,			
1	THE COURT: Overruled.			
2	THE WITNESS: I'm sorry.			
3	THE COURT: Has he said "I lied" in other			
4	communications. That's the question. Do you know?			
5	THE WITNESS: Yes.			
6	BY MS. MCFARLANE:			
7	Q. Yes, he has, correct?			
8	A. Yes.			
9	Q. He's said it numerous times in communication,			
10	official communication, "I lied" to various folks; isn't			
11	that correct?			
12	A. I'm not sure who the various folks were.			
13	Q. Various employees, others at Boeing; isn't that			
14	correct?			
15	A. Yes.			
16	MS. MCFARLANE: Your Honor, defense would like to			
17	move to admit Defense Exhibit 275 A through I.			
18	THE COURT: Okay. That's denied. Ask another			
19	question.			
20	MS. MCFARLANE: Okay.			
21	THE COURT: We need to move, okay?			
22	MS. MCFARLANE: Yes, your Honor. That's my final			
23	question, your Honor.			
24	THE COURT: You may step down.			
25	Call your next witness.			

1	MR. ARMSTRONG: Your Honor, the United States			
2	calls Stacey Klein.			
3	THE COURT: Just put everything on that table.			
4	Are you Stacey Klein?			
5	THE WITNESS: I am.			
6	THE COURT: Would you raise your hand to be sworn?			
7	(The oath was administered.)			
8	THE WITNESS: I do.			
9	THE COURT: Very good. Come have a seat.			
10	MR. ARMSTRONG: Your Honor, before Ms. Klein			
11	testifies, I believe that we were going to offer Government			
12	Exhibits 9, 18, and 24 without objection.			
13	THE COURT: Okay. Nine, 18 and 24 will be			
14	admitted.			
15	(Government Exhibits 9, 18, and 24 were admitted			
16	into evidence.)			
17	MR. ARMSTRONG: Thank you, Judge.			
18	DIRECT EXAMINATION			
19	BY MR. ARMSTRONG:			
20	Q. Two minutes shy.			
21	Good morning, ma'am.			
22	A. Good morning.			
23	Q. Please introduce yourself to the Jury and spell			
24	your name for the record.			
25	A. Sure. My name is Stacey Klein, S-t-a-c-e-y,			

1	K-l-e-i-n	K-l-e-i-n.		
2	Q.	And Ms. Klein, if I could ask you to speak into		
3	the micro	the microphone a little bit so we can hear you.		
4	Α.	Yeah. Stacey Klein. S-t-a-c-e-y, K-l-e-i-n.		
5	Q.	Ms. Klein, where do you work?		
6	A.	I work for the Federal Aviation Administration.		
7	Q.	Is that also known as the FAA?		
8	Α.	Yes.		
9	Q.	Generally speaking, what does the FAA do?		
10	Α.	We provide aviation safety		
11	for particularly airliners and keep the public safe.			
12	Q.	You mentioned that you do public safety for		
13	airlines.	Is that airlines here in America?		
14	Α.	Yes, in the United States.		
15	Q.	Airlines like who and like what?		
16	Α.	Airlines like Southwest, American, Delta, United.		
17	Q.	Ms. Klein, do you have a degree from Southern		
18	Illinois?			
19	Α.	Yes. I have a bachelor of science degree in		
20	aviation management from Southern Illinois University.			
21	Q.	I'm sorry. Your bachelor of science was in what,		
22	ma'am?			
23	Α.	Aviation management.		
24	Q.	And what year did you get that?		
25	A.	1998.		

1	Q.	Ma'am, are you a pilot?
2	A.	I am a pilot.
3	Q.	How long have you been a pilot for?
4	A.	Since 1992.
5	Q.	What kind of planes have you flown?
6	A.	I've flown everything from a Cessna 140, in which
7	I learned	on, to a 787 and a 747 Boeing aircraft.
8	Q.	How does the Cessna you learned on compare to a
9	787 or 737?	
10	A.	You pitch up, the houses get smaller. You pitch
11	down, the	houses get bigger. So they fly, basically.
12	Q.	Is a Cessna like one of those, like, small, little
13	one-propeller planes?	
14	A.	Yes, it's a small airplane with a little
15	reciprocat	ting engine.
16	Q.	Were you also a check airman at some point?
17	A.	Yes.
18	Q.	What's a check airman?
19	A.	A check airman is somebody who's blessed by the
20	FAA to con	nduct training for airlines. And so I was a check
21	airman, an	nd a line check airman, so I also did line flight
22	training.	
23	Q.	What do you mean "blessed by the FAA" to do pilot
24	training?	
25	A.	So in addition to myself being a captain for the

1	airline, I had to qualify as somebody the FAA would trust to	
2	conduct flight training for our airline and also checking.	
3	Q. And so as a check airman, who else did you	
4	actually train?	
5	A. Our airline pilots.	
6	Q. And how long did you do that for?	
7	A. I was check airman for three and a half years.	
8	Q. And where did you do that?	
9	A. At Skyway Airlines.	
10	Q. Are you also a captain?	
11	A. Yes. I worked for Skyway Airlines for six and a	
12	half years; three and a half of which I was a captain and	
13	check airman for the company.	
14	Q. Can you ballpark for the jury about how many hours	
15	you were a captain for Sky Airways?	
16	A. Skyway Airlines. Um, I have 6800 hours total	
17	time. 3,000 of that was as a first officer, and about 1800	
18	as a captain and check airman before I joined the FAA.	
19	Q. You mentioned that you at some point did join the	
20	FAA, right?	
21	A. Yes.	
22	Q. When did you join the FAA?	
23	A. In May of 2006.	
24	Q. Is where did you start out?	
25	A. I started out as the assistant principal	

1	operations inspector at the Milwaukee FSDO, the Flight		
2	Standard District Office.		
3	Q. And generally speaking, what did you do there?		
4	A. I provided oversight for Midwest Express Airlines		
5	to ensure that the airline was compliant with our Federal		
6	Aviation regulations.		
7	Q. And for about how long did you do that for?		
8	A. For three years.		
9	Q. Where did you go next?		
10	A. I joined the Seattle Aircraft Evaluation Group in		
11	2009.		
12	Q. I'm sorry. Let me back up.		
13	Before you joined the Seattle Aircraft Evaluation		
14	Group, are you familiar with the term "type rating" for		
15	pilots?		
16	A. Yes.		
17	Q. What does that mean "type rating" for pilots?		
18	A. So any aircraft that's 12,500 pounds or greater,		
19	the pilot has to be trained in accordance with our Federal		
20	Aviation regulations, and then receive a type rating on that		
21	aircraft.		
22	Q. And are you type-rated as a pilot?		
23	A. Yes, I am.		
24	Q. For how many planes are you type-rated for?		
25	A. I hold seven type ratings.		

1	Q. And can you rattle off the top of your head what
2	those planes are?
3	A. Yes. Beech 1900D, which I flew for Skyway
4	Airlines; DC-9; Boeing 737; Boeing 747-400, Boeing 787,
5	Embraer 170, and an Embraer 190.
6	Q. That was seven type ratings, right?
7	A. That's correct, sir.
8	Q. Then you mentioned that you went to the Seattle
9	Aircraft Evaluation Group, right?
10	A. Yes.
11	Q. Is that also known as the AEG for short?
12	A. Yes.
13	Q. Is the AEG part of the FAA?
14	A. Yes.
15	Q. What does the AEG do?
16	A. The AEG is I was a operations inspector, so as
17	a pilot, we provided evaluation criteria for
18	transport-category aircraft, so airliners in evaluating the
19	type rating and the training required for airlines to fly.
20	Q. Okay. Ma'am, if I could ask you just to slow down
21	just
22	A. Yeah, sorry.
23	Q. You're talking very technically, so I want to make
24	sure everyone gets it.
25	So at a high level, does the AEG set the level of

1	training for new versions of airlines?
2	A. Yes. We evaluate the training required for
3	airlines and also the differences between different
4	airplanes.
5	Q. And those airlines sorry. Is that evaluation
6	for U.Sbased, or airlines here in the United States?
7	A. The United States.
8	Q. Where is the AEG based?
9	A. There's five different offices, and I worked for
10	the Seattle AEG in Seattle, Washington.
11	Q. Do you still work for the AEG?
12	A. I do not.
13	Q. Why not?
14	A. I was promoted.
15	Q. When were you promoted?
16	A. January 2022.
17	Q. And where do you work now?
18	A. I'm the Denver Aircraft Certification Office
19	branch manager.
20	Q. The Denver Aircraft Certification Office. Is that
21	still part of the FAA?
22	A. Yes.
23	Q. Before you were promoted and went to the Aircraft
24	Certification Office in Denver, how long did you work at the
25	AEG in Seattle?

1	A. I worked at the Seattle AEG from 2009,
2	October 2009, until January 2022.
3	Q. Is that about 13 years?
4	A. Yes.
5	Q. Are you familiar with The Boeing Company?
6	A. Yes.
7	Q. What's Boeing?
8	A. Boeing is an aircraft manufacturer.
9	Q. What do they manufacture?
10	A. They manufacture airline jets.
11	Q. And where does Boeing actually build the
12	airplanes?
13	A. They build airplanes in the Seattle area, as well
14	as North Carolina.
15	Q. And what is AEG's role with respect to the
16	airlines or the aircrafts built by Boeing?
17	A. Can you repeat the question?
18	Q. Of course.
19	What is AEG's role with respect to the aircrafts
20	built by Boeing?
21	A. We evaluate those aircraft for pilot training
22	requirements.
23	Q. Are you familiar with the 737?
24	A. Yes, sir.
25	Q. What's the 737?

1	A.	The 737 is an airplane that Boeing manufactures.
2	It's a nam	rrow-body, twin-engine aircraft.
3	Q.	How long has Boeing been manufacturing the 737
4	for?	
5	A.	The first aircraft, they started developing in
6	1964, and	it took flight, I believe, in 1968 or -7.
7	Q.	And so from the 1960s through around today, have
8	there been	n different versions of the 737 along the way?
9	A.	Yes.
10	Q.	Are you familiar with the 737 NG and the 737 MAX?
11	A.	Yes. The 737 NG stands for "Next Generation." It
12	was a family of aircraft that was developed and took flight	
13	in 1998.	
14	Q.	and should the 727 Mays
14	۷.	And what's the 737 MAX?
15	Α.	The 737 MAX is a family of aircraft that were
	Α.	
15	Α.	The 737 MAX is a family of aircraft that were
15 16	A. developed	The 737 MAX is a family of aircraft that were after the NG, starting in 2012. Did Boeing sell the MAX to airlines here in the
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15 16 17 18 19 20 21 22	A. developed Q. United Sta A. Q. A.	The 737 MAX is a family of aircraft that were after the NG, starting in 2012. Did Boeing sell the MAX to airlines here in the ates? Yes. To which airlines? Southwest, American, Alaska. During your time at the AEG, did you actually work
15 16 17 18 19 20 21 22 23	A. developed Q. United Sta A. Q. A. Q. on the MAX	The 737 MAX is a family of aircraft that were after the NG, starting in 2012. Did Boeing sell the MAX to airlines here in the ates? Yes. To which airlines? Southwest, American, Alaska. During your time at the AEG, did you actually work

1	MAX?	
2	A. I	n May of 2012.
3	Q. W	hat was your role in the AEG for the MAX?
4	A. I	was the Boeing 737 Flight Standardization Board
5	chairman.	
6	Q. A	s the chairman of the MAX, did you have a team of
7	other people	e working for you?
8	A. I	did.
9	Q. Al	bout how many people?
10	A. T	here were two additional people. There was a
11	team of thre	ee.
12	Q. A	nd did the AEG's work on the MAX and your work as
13	the chair i	nvolve something called "pilot differences
14	training"?	
15	A. Yo	es, sir.
16	Q. On	n a high level, what is pilot differences
17	training?	
18	A. P.	ilot differences training is new or modified,
19	changed sys	tems from whatever the base aircraft is to the
20	new airplane	e. So you evaluate those differences.
21	Q. Se	o in this case, what were you comparing to what
22	for pilot d	ifferences training?
23	A. S	o for this example, we were comparing the 737 NG
24	aircraft to	the 737 MAX, the new and changed systems to
25	evaluate for	r pilot training.

25

And so were you looking at the new and changed 1 0. 2 systems on the MAX for purposes of pilot training? 3 Yes, sir. Α. Why were you doing that? Why were you comparing 4 0. 5 the NG to the MAX for newer changed systems on the MAX? So every aircraft that's developed has to receive 6 Α. 7 some sort of rating on what training is required for the pilots to receive so that they can adequately fly the 8 9 aircraft safely. 10 Ma'am, as the chair, are you familiar with Q. 11 different levels of training? 12 Α. Yes. 13 What are the different levels of training? 0. 14 There are different levels. There's Level A, all Α. 15 the way up to Level E. Level A training is simply a piece of paper that a pilot would receive that outlined what the 16 17 difference is between those two airplanes all the way up to 18 Level E, which requires hands-on training in a full flight 19 simulator. 20 And how do the levels differs among themselves? 0. You mentioned Level A all the way up to Level E? 21 22 Α. It's incrementally more training-intensive. 23 Level A to Level B requires another layer of training; Level 24 B to Level C would require another layer of training, all

the way up to Level E, where we're training in a full flight

1	simulator.	
2	Q.	So what's the least intense level of training?
3	A.	Level A.
4	Q.	And what is the highest intensity level of
5	training?	
6	A.	Level E.
7	Q.	Are you familiar with the Level B, as in "boy,"
8	training?	
9	A.	Yes, sir.
10	Q.	What's Level B training?
11	A.	Level B training is computer-based training that's
12	pushed out	t via computer or iPad.
13	Q.	Are you familiar with simulator training?
14	A.	Yes, sir.
15	Q.	What level is that?
16	A.	That's Level E.
17	Q.	And at a high level, how does Level B, or the iPad
18	training,	compare with Level E, or the simulator training?
19	A.	It's much more labor-intensive and requires a lot
20	more train	ning than a Level E; full flight simulator, Level
21	E.	
22	Q.	So which one is more labor-intensive, Level E
23	simulator	training, or Level B, the iPad training?
24	A.	Level E.
25	Q.	Is differences training important for pilots here

1	in the United States?
2	A. Yes.
3	Q. Why is that?
4	A. Differences training establishes what the training
5	requirements are for airlines, for their pilots to be able
6	to fly the airplanes safely.
7	Q. And who makes that final decision about the level
8	of training for pilots, for airlines like American and
9	Southwest?
10	A. I did.
11	Q. Are you familiar with the Flight Standardized
12	Board, or the FSB?
13	A. Yes, sir.
14	Q. What's the FSB?
15	A. The Flight Standardization Board is a group of
16	professional pilots from different backgrounds that I, as
17	the chair, put together in order to conduct the evaluation
18	of those differences.
19	Q. And does the FSB, which you were the chair,
20	ultimately set the level of pilot training for the MAX?
21	A. Yes.
22	Q. How many other people sat on the FSB with you?
23	A. For the 737 MAX, I think we had a total of 12.
24	There may have been eight board members and then four
25	airline pilots that also were participants on the board.

And generally speaking, where did you pull these 1 0. 2 people from? So the FAA members are pilots that work for the 3 Α. 4 FAA in different realms, either providing oversight to the 5 airlines themselves, or we had policy people who are intimately familiar with the policy. We also included 6 7 flight test pilot on the board. And then the participants are actual airplane pilots who are flying the line for 8 9 American, Alaska Airlines -- and I'm drawing a blank on the 10 third. We included three different airlines. And, ma'am, I forgot to remind you, but you have a 11 Q. 12 water bottle up there in case you get tired of talking. 13 Α. Thanks. 14 In 2016 and 2017, how many chairs were there on 15 the FSB for the MAX? 16 Α. Just one, myself. 17 And what does that mean, that you were the chair 0. 18 of FSB for the MAX? 19 I had the ultimate decision in evaluating the Α. 20 training determination. Did you have the ultimate decision to set the 21 0. level of training for the MAX? 22 23 Yes, sir. Α. 24 And did you, in 2017, set the level of training Q. 25 for the MAX?

1	A. Yes. I did.
2	Q. What level did you decide?
3	A. Level B.
4	Q. Is Level B that iPad training you mentioned
5	before?
6	A. Yes.
7	Q. From the time you started working on the MAX
8	around 2012 through 2017 when you set the level of training
9	for the MAX, why did that take so long? Why did it take
10	five years?
11	A. So the aircraft is being developed by engineers
12	and it takes a long time to develop a new airplane. So
13	Boeing's first presentation of what the MAX was going to be
14	was in May of 2012, and then the final certification of the
15	aircraft was, I believe, in March 2017.
16	Q. But, generally speaking, why did it take five
17	years? Is it an easy job, a complex job?
18	A. No. It's a very complex job of developing the
19	aircraft in accordance with our rules and regulations for
20	aircraft certification. And then the job of the AEG is to
21	evaluate all those type of differences during that time.
22	Q. Ms. Klein, do you know Mark Forkner?
23	A. I do.
24	Q. Where did you first meet Mark Forkner?
25	A. I first met Mark at the FAA when he was employed

1	there.	
2	Q.	Around when did you first meet Mr. Forkner?
3	Α.	I believe it was 2010.
4	Q.	Where were you working at the times?
5	A.	The AEG.
6	Q.	Was Mr. Forkner also working at the AEG with you
7	at the ti	me?
8	A.	No. Mr. Forkner worked for the Airports Division,
9	I believe	•
10	Q.	The Airports Division, what was that?
11	A.	The Airports Division. It's an area that they
12	find compliance for airport development and, you know, U.S.	
13	airport P	art 39.
14	Q.	Did you work directly with Mr. Forkner at this
15	time?	
16	A.	No.
17	Q.	How did you get to know him?
18	A.	We shared the same floor at the FAA office, and he
19	would com	e over and visit from time to time.
20	Q.	Were you aware that he was a pilot?
21	A.	I was.
22	Q.	At some point did he leave the Airport Division at
23	the FAA?	
24	A.	Yes.
25	Q.	Where did he go?

1	A.	The Boeing Company.	
2	Q.	Once Mr. Forkner was at Boeing, did you have	
3	opportuni	ties to actually deal with him at your job at the	
4	AEG?		
5	A.	Yes, sir.	
6	Q.	What did you deal with Mr. Forkner about when you	
7	were at AEG and he was at Boeing?		
8	A.	Mr. Forkner was the Boeing 737 chief technical	
9	pilot, so	he was my direct counterpart at The Boeing	
10	Company.		
11	Q.	Do you see Mr. Forkner in court today?	
12	A.	I do.	
13	Q.	Can you please identify him by where he's sitting	
14	and what he's wearing?		
15	A.	Mark is sitting there in a white shirt and gray	
16	coat.		
17	Q.	Is he sitting right next to this lady right here?	
18	A.	Yes.	
19		MR. ARMSTRONG: Your Honor, may the record reflect	
20	an in-court identification of Mr. Forkner?		
21		THE COURT: Yes.	
22	BY MR. ARI	MSTRONG:	
23	Q.	How often did you deal with Mr. Forkner when he	
24	was at Boeing?		
25	A.	As the chief technical pilot, he was my direct	

1	counterpart. So I would have meetings with him. We had		
2	established meetings every other week, but we would see each		
3	other often in other certification meetings, and we'd get		
4	together for meetings at his office or my office.		
5	Q. How frequently would you talk to him?		
6	A. Every week.		
7	Q. What did y'all talk about?		
8	A. The Flight Standardized Board, evaluation of the		
9	MAX.		
10	Q. What was his position at Boeing during the bulk of		
11	your work together with him on the MAX?		
12	A. He was the chief technical pilot for the Boeing		
13	737.		
14	Q. What does that mean, "He was the chief technical		
15	pilot"?		
16	A. He was responsible for providing all the 737		
17	material to the AEG. So the design changes, the design of		
18	the aircraft; evaluate what the training requirements would		
19	be; create the plan for the evaluation; give that as a		
20	proposal to myself and my team members.		
21	Q. About how far was his office from yours outside		
22	Seattle?		
23	A. I was two blocks away.		
24	Q. As the chief technical pilot, did Mr. Forkner have		

a specific group at Boeing?

25

1	A. Yes. He worked in the Flight Technical Group.	
2	Q. Did he have people in that group working with him?	
3	A. Yes.	
4	Q. About how many?	
5	A. Six.	
6	Q. Who was the chief of that group, from your	
7	perspective?	
8	A. It was Mark Forkner.	
9	Q. How would you describe his position within his	
10	team at Boeing?	
11	A. I would describe him as the boss.	
12	Q. Why do you say that?	
13	A. He's the chief technical pilot.	
14	Q. How would you describe Mr. Forkner's position as	
15	the chief technical pilot compared to yours as the chair of	
16	the FSB?	
17	A. He was my direct counterpart.	
18	Q. Why do you say that?	
19	A. That's how it works, in that there's a single	
20	point of contact at the manufacturer that proposes all of	
21	the design changes and the training requirements to the FSB	
22	chair of that aircraft. So each individual aircraft has its	
23	own team, and there is a chief technical pilot on the	
24	manufacturer's side and there is an FSB chair that works for	
25	the government, the AEG, that's assigned to that aircraft	

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1	fleet.		
2	Q.	And who is of that single point of contact at	
3	Boeing for you?		
4	A.	It was Mark Forkner.	
5	Q.	Was Mr. Forkner's job as the chief technical pilot	
6	at Boeing	important to your job as chair of FSB?	
7	A.	Yes.	
8	Q.	Why?	
9	A.	It's how we got information on what the training	
10	differences would be based on what those system designs		
11	were.		
12	Q.	For what plane?	
13	A.	For the 737 MAX.	
14	Q.	Could you do your job as the chair of the FSB if	
15	Mr. Forkner didn't do his job?		
16	A.	No.	
17	Q.	Why not?	
18	A.	I solely relied and trusted Mark Forkner to	
19	provide all of that information.		
20	Q.	Provide what information?	
21	A.	The system differences and the design changes of	
22	the aircraft.		
23	Q.	To decide the level of training for the MAX, what	
24	information did you need to receive?		
25	A.	I would need accurate, true design information on	

1	what the	design of the aircraft is.		
2	Q.	Did you need complete information or incomplete		
3	informati	information?		
4	A.	Complete.		
5	Q.	Was it important to your job that you receive		
6	true, accurate, and complete information about the MAX?			
7	A.	Yes, sir.		
8	Q.	Can you explain why?		
9	A.	It's essential. We can't evaluate the aircraft		
10	without true and complete information, and then keep the			
11	public safe.			
12	Q.	And from whom did you need to receive true,		
13	accurate,	and complete information about the MAX?		
14	A.	Mr. Forkner.		
15	Q.	Who did you rely on to give you that information?		
16	A.	Mark Forkner.		
17	Q.	Who did you trust?		
18	A.	Mark Forkner.		
19	Q.	Was that normal or abnormal that you would rely on		
20	someone a	t the manufacturer to provide you that true,		
21	accurate,	and complete information on the plane that you		
22	were eval	were evaluating at the AEG?		
23	A.	It's normal.		
24	Q.	How so?		
25	Α.	It's what our guidance and regulation is based off		

24

25

Α.

- 1 of, of mutual trust between the manufacturer and the 2 regulator; that they will provide detailed design 3 information. And so I relied on Mark Forkner for that 4 detailed design information to evaluate the training 5 differences. During your evaluation of the MAX, did you come to 6 Q. 7 learn the resources that Mr. Forkner had at Boeing? Yes, sir. 8 Α. 9 How did you learn that? 0. 10 We would attend Aircraft Certification Office Α. meetings where Boeing engineers and our flight test pilots 11 and Mark Forkner and his team would attend. So we got to 12 13 know a lot of the engineers that would develop those 14 presentations, to present to all of us as regulators; so our 15 aircraft certification branch, and the flight test branch 16 and then myself and my team. 17 0. How would you describe the level of resources that 18 Mark Forkner had at his disposal at Boeing? 19 They develop the airplane, so they have Α. A lot. 20 thousands of people that work there doing that. And how would you compare that level of resources 21 0. 22 that Mr. Forkner had at Boeing to the level of resources 23 that you had at the AEG?
 - so I had a team of three to evaluate, for myself, I can

We didn't have as many. We provide the oversight,

1	speak. That's how many people we had.
2	Q. Now, when you ultimately set when you first
3	set I apologize.
4	When you first set Level B for the MAX back in
5	July of 2017, did you believe that Mr. Forkner had provided
6	you true, accurate, and complete information about the MAX?
7	A. Yes, sir.
8	Q. What do you believe now?
9	A. That is not true.
10	Q. What's not true?
11	A. That it was not true and accurate information.
12	Q. Ma'am, are you familiar with something called the
13	"Maneuvering Characteristics Augmentation System"?
14	A. Yes, sir.
15	Q. Is that also known as "MCAS," M-C-A-S?
16	A. Yes.
17	Q. And did you learn about MCAS during the course of
18	your evaluation of the MAX?
19	A. Yes.
20	Q. Generally speaking, if MCAS kicked in, what would
21	that do for the front, or the nose, of the plane?
22	A. It would push the nose of the aircraft down.
23	Q. And if the nose of the plane is pushed down, how
24	does that affect the flight of the plane?
25	A. The flight of the aircraft goes down.

During your evaluation of the MAX, what was your 1 0. 2 understanding of the speeds at which MCAS could operate? I first learned about MCAS in 2015, and the speeds 3 Α. 4 are high speeds; so .7 Mach and above. 5 I'm sorry. You said what speed specifically? Q. 6 Α. High speed. 7 Q. And you mentioned a Mach number. What Mach number did you mention? 8 9 .7 Mach and above. Α. 10 At any point in your evaluation of the MAX, did Q. 11 you learn that MCAS could operate at speeds below .7 Mach? 12 Α. No, I did not. 13 During your evaluation of the MAX, what was your 0. 14 understanding of when MCAS could operate in normal passenger 15 flight? 16 MS. MCFARLANE: Your Honor, objection. Can we have a time frame for evaluation of the MAX? 17 18 MR. ARMSTRONG: Sure. 19 BY MR. ARMSTRONG: 20 Ms. Klein, at any point from 2015 through 2017, Q. 21 what was your understanding of when MCAS could operate a 22 normal passenger flight? 23 Α. Never. 24 Based on that understanding, what level of Q. 25 training did you set for the MAX?

1	A. B level training.
2	Q. And is that the level you set in July of 2017?
3	A. Yes, sir.
4	Q. In October 2018, was there an incident with the
5	MAX?
6	A. Yes.
7	Q. About how long after you set Level B for the MAX
8	was this incident?
9	A. A year and a half.
10	Q. Around the time of this incident, did you learn
11	about the speeds when MCAS could actually kick in?
12	A. Yes.
13	Q. What did you learn?
14	A. That MCAS had been expanded down to Mach .2, which
15	is a slow, low, airspeed.
16	Q. Mach .2?
17	A. Yes, sir.
18	Q. Was the fact that MCAS was expanded at the low
19	speeds like Mach .2 new information to you?
20	A. Yes. It was new information.
21	Q. Can you explain why?
22	A. I the understanding that I had based on the
23	presentation and system design information that was provided
24	through the FCOM, which is the Flight Crew Operating Manual,
25	was a high-speed, high-G maneuver that MCAS would actually

So learning about the expansion of MCAS after the 2018 incident was quite a surprise. Q. Who provided the information to you at the time of your evaluation about how MCAS only operated at high speeds? A. Mr. Forkner. Q. At the time of your evaluation, did you have any idea that MCAS could operate all the way down to low speeds like Mach .2? A. No. Q. After the incident in 2018, did you come to learn if anybody else in this courtroom saw that MCAS could be active all the way down to Mach .2? A. I did. Q. Who? A. Mark Forkner. Q. How did you learn that? A. I learned that from an internal text message that was publicized in 2019. Q. Whose text message? A. Mark Forkner and Patrik Gustavsson. Q. Did Mr. Forkner ever share with you how MCAS could be active down to Mach .2 during your evaluation of the MAX? A. No. Q. Did you want to know that?	1	activate.
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24 A. No.	22	Q. Did Mr. Forkner ever share with you how MCAS could
	23	be active down to Mach .2 during your evaluation of the MAX?
Q. Did you want to know that?	24	A. No.
1	25	Q. Did you want to know that?

1	А.	Yes.
2	Q.	Why?
3	Α.	So we could evaluate it for pilot training, keep
4	the publi	c safe.
5	Q.	How could knowing that fact have affected your
6	evaluatio	n of the 737 MAX?
7	A.	It would have affected the Level B determination.
8	Q.	How so?
9	A.	The evaluation we would have had to redo the
10	evaluatio	n for all the required pilot training maneuvers
11	that are	required under our regulations, and upon doing so,
12	that woul	d determine if Level E training could be
13	sufficien	t.
14	Q.	Level B training to be sufficient or insufficient?
15	A.	No. I said Level E training would be sufficient
16	was what	the determination was after we evaluated it.
17	Q.	And Level E training, was what kind of training?
18	A.	Full flight simulator training.
19	Q.	Ma'am, showing you Government Exhibit 227.
20		MR. ARMSTRONG: And Ms. Holbrook, if you can
21	please pu	ll up the top, please.
22	BY MR. AR	MSTRONG:
23	Q.	Ma'am, what's the date of this chat?
24	A.	It's November 15th, 2016.
25	Q.	And who are the participants?

1 It's an instant message between Mark Forkner and Α. 2 Patrik Gustavsson. Is this the chat you saw after the 2018 incident 3 0. 4 that you referenced? 5 Α. Yes. And October 2019 is when this was brought to 6 my attention. So this chat was brought to your attention about 7 0. three years after the fact? 8 9 Yes, sir. Α. 10 And Ms. Holbrook, can you please MR. ARMSTRONG: 11 blow-up the bottom 650 to 651, please. BY MR. ARMSTRONG: 12 13 Ma'am, are those the words that you saw in 2019? 0. 14 Yes, they are. Α. 15 Including, "MCAS is now active down to Mach .2, 0. 16 and so I basically lied to the regulators, unknowingly"? 17 Α. Yes. 18 And whose words are those? Q. 19 Mark Forkner. Α. 20 How long after you set Level B for the MAX did you Q. see those words? 21 22 What was that, two and a half years? I saw these Α. 23 in October of 2019. We set the level of training in 2017. 24 Q. What was your reaction when you saw these words 25 about two years after your evaluation of the MAX?

1	A. I was shocked, dismayed, sad, angry. All of the
2	feelings.
3	Q. Why is that?
4	A. Because I trusted Mark. And I trusted him to give
5	me this information.
6	THE COURT: Okay. Why don't we go ahead and take
7	our lunch break now. We have ordered you in sandwiches, so
8	you will have sandwiches back upstairs when you go back
9	upstairs. It's good today, because we have bad weather
10	today, so you don't have to go out to get food if you don't
11	want to. Of course, if you want to, you can.
12	We'll start back up why don't we start back up
13	at about 1:45? And in the meantime, please remember all of
14	my instructions. Please avoid any push notifications, news
15	stories. Don't conduct any independent investigation.
16	Don't read any news stories that might mention anything
17	about this case.
18	We'll get you back in just as soon as everybody is
19	back here and you-all are ready to go. We will get you back
20	in, and we will keep going through the testimony. So we
21	will see you after lunch.
22	All rise.
23	(A recess was had at 12:31 p.m.)
24	THE COURT SECURITY OFFICER: All rise.
25	THE COURT: Okay. Please be seated.

1	It looks like we are missing a participant or two.
2	They should be here, and we can get started.
3	(Discussion off the record.)
4	THE COURT: Where is the witness?
5	MR. ARMSTRONG: The witness is in the hallway,
6	your Honor.
7	THE COURT: Let's go ahead and get them in here.
8	(Thereupon, the witness entered the courtroom.)
9	DIRECT EXAMINATION CONTINUED
10	BY MR. ARMSTRONG:
11	Q. All right, ma'am. Good afternoon.
12	A. Good afternoon.
13	MR. ARMSTRONG: If you will pull up Exhibit 22,
14	please.
15	Please put up the time and date of the chat and
16	the chat, Exhibit 22, starting with 6:50 all the way down to
17	the bottom, please.
18	THE WITNESS: Is it supposed to be populated on
19	this the screen here?
20	BY MR. ARMSTRONG:
21	Q. Yes, ma'am.
22	A. It is not.
23	THE COURT: I haven't done anything.
24	BY MR. ARMSTRONG:
25	Q. This document is in evidence, GE-22.

		,
1		Can you see it?
2		THE COURT: Maybe you hit the machine somehow.
3		MR. ARMSTRONG: Your Honor, may I approach?
4		THE WITNESS: Okay. It is up.
5	BY MR. AR	MSTRONG:
6	Q.	All right. Ms. Klein, right before the break, we
7	are talki	ng about Mr. Forkner's words on November 15, 2016,
8	right?	
9	A.	Yes, sir.
10	Q.	Who is Mr. Forkner telling the MCAS is not active
11	down to M	Mach .2 and regulators knowing
12	A.	This is a communication between Mark Forkner and
13	Patrik Gu	stavsson.
14	Q.	Do you know who Patrik Gustavsson is?
15	A.	Excuse me. Yes, sir.
16	Q.	Who was Mr. Gustavsson or Gustavsson?
17	A.	Gustavsson. I pronounce it Gustavsson.
18	Q.	Who was Mr. Gustavsson at the time back in
19	November	of 2016?
20	A.	Patrick was Mark's deputy chief pilot.
21	Q.	What was role compared to Mr. Forkner's role back
22	in Novemb	per 2016?
23	A.	He worked for Mark.
24	Q.	Now, ma'am, are you included on this chat?
25	A.	No.
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Did Mr. Forkner share this chat with you at the 1 0. 2 time, back in November of 2016? 3 No, he did not. Α. 4 Did you have access to it? 0. 5 Α. No, I do not. 6 Q. Why not? This is an internal Boeing instant message between 7 Α. himself and Mr. Gustavsson. 8 9 Did Mr. Forkner ever share this chat with you at 0. 10 any point? 11 Α. No, he did not. Mr. Forkner writes, "MCAS is now active down to 12 Q. 13 M.2." 14 Do you see that, ma'am? 15 Α. Yes. Are you familiar with the term M.2? 16 Q. 17 Yes, that is Mach .2. Α. 18 Is Mach .2 high speed or low speed? Q. 19 Low speed. Α. 20 What does that mean to you, "MCAS is now active Q. down to Mach .2"? 21 22 Α. It means that the functioning of the software is 23 now active, has been expanded down to a low speed aircraft 24 regime. 25 Based on this chat, at what speed could MCAS now Q.

1	operate operable down to Mach .2?
2	A. During a normal airline flight.
3	Q. At what basis of flight does a plane normal
4	operate in at speeds Mach .2 or low speed?
5	A. Takeoff and landing.
6	Q. Are you familiar with the phase "critical phase of
7	flight"?
8	A. Yes, sir.
9	Q. What is that?
10	A. The critical phase of flight is the flight during
11	takeoff and landing in which if anything were to go wrong,
12	its critical and you have to be able to recover.
13	Q. So why is takeoff and landing a critical phase of
14	flight?
15	A. Because if anything goes wrong, you have very
16	little time to recover. You are close to the ground.
17	Q. How important is pilot training during this
18	critical phase of flight?
19	A. It's essential. The majority of all of our pilot
20	training happens essential below 5,000 feet from the ground.
21	Q. And when a plane is going Mach .2 or around there,
22	is that high in the sky or low in the sky?
23	A. Low in the sky.
24	Q. Would it have been important for you to know at
25	the time that MCAS is now active down to Mach .2?

1	A. Yes, sir.
2	Q. Can you explain why?
3	A. We would need to evaluate it for all the required
4	parking lot training requirements to see how it would
5	interact with the system and how it would fail, so we could
6	evaluate what type of pilot training would be required when
7	it is operative and when it's inoperative.
8	Q. Were you able to evaluate MCAS at low speed for
9	how it operated, what it interacted with and what happens
10	when it failed at the time?
11	A. No, I did not.
12	Q. Why not?
13	A. I didn't know that the software had been expanded
14	to include a normal operating envelope.
15	Q. Back in November 2016, at what speeds did you
16	think MCAS could operate?
17	A. Only high speeds, above Mach .7.
18	Q. Did you believe at the time that MCAS could kick
19	in or could not kick in during passenger flights?
20	A. It would not kick in during a normal passenger
21	flight.
22	Q. When MCAS is active down to Mach .2, could MCAS
23	now kick in during a passenger flight?
24	A. Yes, depending on the conditions.
25	Q. Mr. Forkner writes here at 6:51, "So I basically

1	lied to the regulators unknowingly."
2	Do you see that, ma'am?
3	A. Yes, sir.
4	Q. Who was the regulator working with Mr. Forkner
5	back in November 2016?
6	A. I was.
7	Q. And what were you working with Mr. Forkner on?
8	A. The Flight Standardization Board evaluation.
9	Q. Who did you rely on to tell you that MCAS had been
10	expanded and changed from high speeds?
11	A. I relied on Mark Forkner to do that.
12	Q. When would you have wanted Mr. Forkner to tell you
13	that MCAS was now active down to Mach .2 or low speed?
14	A. As soon as he learned about it.
15	Q. Why is that?
16	A. It is a system based on trust. We rely on the
17	manufacturer to tell us about the designs so that we can
18	evaluate them for pilot training and safety.
19	So I trusted Mark to do that.
20	Q. Did Mr. Forkner ever tell you that MCAS is now
21	active down to Mach .2?
22	A. No, he did not.
23	Q. At the time of this chat in November 2016, were
24	you close to finalizing your Level B decision for the MAX?
25	A. Yes. We had already conducted the evaluation of

the training and provided a provisional approval for Level 1 2 B, pending the certification of the aircraft and no design 3 changes. 4 And how close were you to actually finalizing that 0. 5 level of pilot training decision? We finalized that decision in July of 2017. 6 7 0. Even if you were close to finalizing your final, what would be your decision for the MAX, is there any 8 9 scenario in which you didn't want to know about the 10 low-speed expansion of MCAS? 11 Α. No. About how many times after November 16th -- I'm 12 Q. 13 sorry -- after November 2016 did you talk with Mr. Forkner? 14 A lot. We met often. Α. 15 In person or over the phone? Q. 16 Α. Both. 17 In any of these conversations, did he tell you 0. 18 that MCAS was active down to low speeds? 19 Α. No, he did not. 20 Shifting gears, during your evaluation of the MAX, Q. did you and Mr. Forkner ever talk about the level of 21 22 training that he thought was appropriate for the MAX? 23 Α. Yes. 24 Q. So what did he tell you? 25 Α. That it would be Level B differences training.

1	Level B would be appropriate.
2	Q. So he told you that it will be Level B?
3	A. Yes, sir.
4	Q. How often would he say the MAX will be Level B?
5	A. In the beginning, really often. It was the main
6	topic of conversation as we were trying to understand the
7	system design.
8	Q. Would he tell you this in person or over the
9	phone?
10	A. In person.
11	Q. Who was the ultimate decision maker about the
12	level of pilot training for the MAX?
13	A. I was.
14	Q. Did you ever raise with Mr. Forkner the
15	possibility that it might not be Level B?
16	A. Yes. I was very concerned that the system design
17	on the MAX would not qualify for Level B, and so I had
18	raised that concern with him as well as up my supervisory
19	chain.
20	Q. When you raised those concerns with him, would he
21	agree with you?
22	A. No, he would not.
23	Q. What would he tell you in response?
24	A. He would try to identify regulations where Level B
25	would be sufficient or training would not be required.

1	Q. Would he tell you if you were right or wrong?
2	A. He would tell me I was wrong.
3	Q. How would he speak to you when he was telling you
4	that?
5	A. In the beginning, Mark would be aggravated,
6	irritated with the process.
7	Q. What do you mean he was agitated and irritated?
8	A. He would be in the meetings, he would get
9	irritated, red faced, raise his voice at me. He would be
10	angry.
11	Q. Would he do anything physically when he was
12	getting red in the face and getting irritated at these Level
13	B conversations?
14	A. Yes. He would be red faced and slam his hands
15	down on the conference room table.
16	Q. Had you ever encountered anything like that in
17	your work in the AEG reports?
18	A. No. It was very unprofessional.
19	Q. Did you feel like Mr. Forkner was open at all to
20	the possibility of training for the MAX above Level B?
21	A. No.
22	Q. Why do you say that?
23	A. Well, we couldn't have a normal conversation about
24	what would qualify for the training. And so the meetings
25	were very contentious and difficult to have a mutual

understanding that we were trying to evaluate for safety. 1 2 How would you describe overall his attitude 0. 3 towards the AEG's process and the AEG's evaluation? 4 Α. I would describe it as being irritated, at trying 5 to follow that process. He felt that a lower level of training would be 6 sufficient and that they wouldn't even have to follow the 7 They could just do what was called a T1 test at 8 9 the time. 10 Were you concerned at all about his attitude at Q. 11 the time? 12 Α. Yes. 13 Did you raise your concerns with anybody? Q. 14 I raised my concerns with my supervisors. Α. 15 Despite your concerns, did you keep working with Q. Mr. Forkner? 16 17 Yes, I did. Α. 18 Why is that? Q. 19 I didn't have a choice. Mr. Forkner was the chief Α. 20 technical pilot, and so I started documenting everything and writing it down in issue papers and briefing papers up to 21 22 our executive leadership in DC. 23 Overall, how would you characterize how Mr. 0. 24 Forkner acted towards you and your colleagues at AEG during 25 your evaluation of the MAX?

1	A. I felt like he was a bully.
2	Q. Did he ever stop being a bully towards you and
3	your colleagues at AEG?
4	A. Yes.
5	Q. When?
6	A. Once we agreed to evaluate the aircraft for their
7	proposal at Level B, it became a much more mutual,
8	professional engagement between myself and Mr. Forkner.
9	Q. When Mr. Forkner told you that the MAX will be
10	Level B, did he tell you why he thought that?
11	A. Yes. Boeing had sold the aircraft to their
12	airlines to be no greater than Level B training.
13	Q. Is that what he actually told you?
14	A. Yes.
15	Q. And when you said the airlines, did you take it
16	mean airlines like American and Southwest?
17	A. Yes.
18	Q. What did Mr. Forkner say about the financial
19	importance of Level B to Boeing?
20	A. That it would be very expensive to be greater than
21	Level B; that they had sold the aircraft as Level B.
22	Q. Very expensive to who?
23	A. The airlines.
24	Q. Based upon your experience, would a lower level of
25	training, like computer-based train or iPad training, save

25

money for airlines like American and Southwest compared to 1 2 simulator training? Α. Training via CBT, or a computer-based 3 Yes. 4 training module is a lot less expensive than a full flight 5 simulator. Can you explain why the iPad training is 6 Q. 7 essentially cheaper than the simulator training? Α. 8 Sure. 9 An iPad, all pilots are issued an iPad at the 10 airlines. And so they can conduct that training, you know, 11 while they're on the road, on an overnight, or at their home 12 base at home. 13 In a full flight simulator training or hands-on 14 experience requires the flight crew to be taken off the line 15 flying. They have to -- you know, the airline has to invest in the cost of the simulator, which is millions of dollars, 16 17 they have to have facilities to host that. They need to 18 have flight instructors, sim technicians. It is a very 19 expensive undertaking. 20 You mentioned that pilots have to be taken off the Q. line for simulator training. 21 22 What does that mean? 23 So a pilot is issued what we call a line segment Α. 24 for the month. And they would have to not fly their

scheduled trips and come to their training facility and

spend several days in a hotel, and receive that training 1 2 with the training instructors. How much more expensive, generally speaking, is 3 0. 4 simulator training compared to iPad training for the 5 airline? 6 Α. It is very expensive. To rent a simulator is anywhere from 400 to \$1,500 7 an hour, typically, for an airline. And then the cost of 8 9 the instructor, the training of having to come in do ground 10 training and then flight training. 11 It gets very costly. 12 Q. Back in 2017, could American or Southwest even 13 have the ability to train their pilots on simulators for the 14 MAX? 15 Α. No. 16 0. Why not? 17 Because Boeing was not going to be developing a Α. 18 simulator for the MAX. 19 Q. Were there even enough simulators to go around 20 back in 2017 to train all the pilots? The idea would be that the airlines would 21 Α. No. 22 train their pilots on the NG, and then receive the 23 differences training via the CBT in an iPad training. 24 0. Ma'am, I'm shifting gears. 25 Was MCAS on any version of the 737 before the MAX?

1	A. No, it was not.
2	Q. Around June 2015, did you receive information
3	about MCAS and how it works?
4	A. Yes.
5	Q. How did you receive this information?
6	A. Boeing came over to the Seattle AEG's conference
7	room and did a presentation on flight controls, so all the
8	different changes to the flight control system.
9	Q. This presentation was at the AEG's office?
10	A. Yes, sir.
11	Q. What was the purpose of this presentation, from
12	your perspective?
13	A. The purpose was to educate the AEG, myself, our
14	aircraft certification engineers, the program manager and
15	the flight test pilots on what the system differences were
16	between the NG and the MAX.
17	Q. Were there any particular types of system
18	differences that were included in this presentation?
19	A. Yes.
20	There were all kinds of system differences on the
21	737 MAX flight control system. There were many different
22	changes, including MCAS.
23	Q. So was the presentation essentially about flight
24	controls on the MAX?
25	A. Yes.

1	Q. What are flight controls?
2	A. Flight controls are the surfaces used to turn the
3	aircraft to pitch the aircraft up and down. It's connected
4	to the yoke or steering wheel that the pilot controls to
5	maneuver the aircraft.
6	Q. Were your team members from the AEG also at the
7	presentation about flight controls in June 2015?
8	A. Yes, they were.
9	Q. Who was actually presenting the information?
10	A. A flight controls engineer at the Boeing Company
11	was presenting the information.
12	Q. Was Mr. Forkner there?
13	A. Yes, he was.
14	Q. Let's talk about what you learned about MCAS.
15	MR. ARMSTRONG: GX-9, please, already in evidence.
16	And, Ms. Holbrook, can you please blow up that
17	part, please?
18	It is right there. Perfect.
19	Thank you, ma'am.
20	BY MR. ARMSTRONG:
21	Q. Ms. Klein, do you recognize this document?
22	A. Ah, yes.
23	Q. What is it?
24	A. This is an email from Ross Chamberlain to myself,
25	copying Mark.

1	Q. And what is the date?
2	A. June 23rd, 2015.
3	Q. And what is the subject?
4	A. Presentations from June 16th meeting.
5	Q. Taking a step back, who is Ross Chamberlain?
6	A. Ross Chamberlain worked for Mark. He was a pilot
7	and was an administrative support team member for Mark.
8	Q. When you say that Mr. Chamberlain was
9	administrative support, what does that mean?
10	A. He helped produce all of the the
11	documentations, the plans, you know, the Word documents that
12	would then be sent to myself and my team.
13	Q. And what does Mr. Chamberlain write to you in the
14	email on which Mr. Forkner is copied?
15	A. He says, "Stacey, there are four .pdf files of the
16	presentations given last Tuesday. The files are large. I
17	will split them into two emails. Please forward the files
18	to EASA and Transport Canada."
19	Q. Did Mr. Chamberlain include in this email the
20	flight controls presentation from June 2015 that you
21	mentioned a few minutes ago?
22	A. Ah, yes. There's two attachments, one for the 737
23	MAX MAX display system and the 737 MAX flight controls
24	overview.
25	MR. ARMSTRONG: Ms. Holbrook, if you could please

1	take that down.
2	Please go to page 43 of Government Exhibit 9,
3	please.
4	BY MR. ARMSTRONG:
5	Q. Ma'am, do you recognize page 43 of Government
6	Exhibit 9?
7	A. Yes.
8	Q. What is it?
9	A. That is the maneuver characteristics augmentation
10	system, MCAS system overview.
11	Q. Is this a slide that you received in this
12	June 2015 meeting at the AEG?
13	A. Yes, sir.
14	MR. ARMSTRONG: Ms. Holbrook, if you can please
15	blow up MCAS operational envelope, please.
16	And, Ms. Holbrook, if you can please highlight the
17	second bullet.
18	BY MR. ARMSTRONG:
19	Q. Ma'am, can you read that to the Jury?
20	A. "Operate flaps up in Mach number range .7 to .8."
21	Q. So, Ms. Klein, what were you told at this
22	June 2015 meeting about the speeds at which the MCAS would
23	operate?
24	A. The speeds would be high-speed above Mach .7 to
25	.8.

About how fast is .7, .8 in miles per hour, 1 0. 2 ballpark? 3 430 to 450 miles an hour. Α. 4 And at what phase of flight would be the plane be 0. 5 going at.7, .8 Mach or about 420 or 430 miles an hour? At cruise. So high speed. 6 Α. 7 Q. Is that high in the sky or low in the sky? High in the sky. 8 Α. 9 Does the plane ever going .7 or .8 Mach during Q. 10 takeoff and landing? 11 Α. No. 12 Why not? Q. 13 An airplane can't take off and land at that speed. Α. 14 MR. ARMSTRONG: Ms. Holbrook, if you can please 15 highlight the first bullet point on page 43 of Government Exhibit 9. 16 17 BY MR. ARMSTRONG: 18 Ma'am, can you please read that to the jury? Q. 19 "Operates outside of normal operating envelope." Α. 20 What does this phrase mean, "normal operating Q. 21 envelope"? 22 Α. The normal operating envelope is an envelope in 23 which the aircraft flies at max capacity, so all of the 24 passengers on board, baggage on board, from taxi, takeoff, 25 climb out, cruise, descent, approach to landing, landing and

1 It is the envelope in which the aircraft would taxiing in. 2 normally do an airline flight from, say, Dallas to Chicago 3 or something. 4 Essentially it is a gate-to-gate flight? 0. 5 Α. Yes. Yeah. So on this slide it says, "MCAS operates outside 6 Q. of the normal operating envelope." 7 When you saw this information at the time, what 8 9 did you understand this to mean? 10 That MCAS would not activate during the normal Α. 11 course of a flight. 12 And were you given any examples about when MCAS 0. 13 would actually operate, if it wasn't going to operate during 14 gate-to-gate or normal passenger flight? 15 Α. Yes. So the conditions in which MCAS would activate 16 would be above Mach .7 to .8. It would have to be at a high 17 18 The aircraft would have to be pulling angle of attack. 19 above 1.3 Gs. And in order for an airplane to be in that 20 condition, you would be doing what's called a high-speed wind-up turn. 21 22 What was that? Q. 23 A high-speed wind-up turn. Α. 24 What is a high-speed wind-up turn? Q. 25 It is a certification requirement to conduct a Α.

1	high-speed wind-up turn so they can test the stick force
2	gradients.
3	Q. I saw you going like this (indicating).
4	What does the plane actually look like in the sky
5	when it is doing a high-speed wind-up turn?
6	A. It's going very fast in the sky at a high-angle of
7	bank. It is doing a corkscrew through the sky, very fast.
8	Q. In passenger flights, is the pilot ever expected
9	to do a high-speed corkscrew high in the sky?
10	A. No.
11	Q. Why not?
12	A. It would be very uncomfortable for the passengers.
13	Q. How so?
14	A. Pulling more than 1.3 Gs would feel like you are
15	getting really pushed down into your seat. You may feel
16	like you are getting pushed against the side of the
17	aircraft. It would not be a comfortable maneuver.
18	Q. In all of your time flying, have you ever heard of
19	a pilot doing a high-speed wind-up turn in a passenger
20	flight?
21	A. No.
22	Q. You mentioned before that a high-speed wind-up
23	turn is a certification maneuver.
24	What does that mean?
25	A. The certification regulations require that

particular maneuver to test for the stick force gradient. 1 2 And so it is a flight test maneuver. It is not something 3 that we would evaluate. 4 Is the high-speed wind-up turn essentially done 0. 5 just to test the strength of the plane? 6 Α. Yes. 7 0. Based on this presentation, did you believe that MCAS could operate at any time at all outside this 8 9 high-speed corkscrew turn? 10 Α. No. So when did you believe MCAS would actually kick 11 0. 12 in during a passenger flight? 13 Α. Never. 14 After this presentation, did you have a chance to 0. 15 speak with Mr. Forkner about MCAS some more? I did. 16 Α. 17 How long after this presentation did you speak 0. with Mr. Forkner? 18 Immediately following this -- completion of the 19 Α. 20 presentation, we were chatting in the hallway. 21 0. The hallway where? 22 Α. At the -- at my office, the Seattle AEG. 23 Was anyone else with you in this conversation with 0. 24 Mr. Forkner immediately after this presentation? 25 Α. Yes. Christine Walsh.

1	Q. Christine Walsh, who is that?
2	A. She was the deputy the 737 deputy chief pilot
3	for the flight test group.
4	Q. Was she in Mr. Forkner's group or a different
5	group?
6	A. A different group.
7	Q. So when you, Ms. Walsh and Mr. Forkner were
8	talking about MCAS, after this presentation, what was said?
9	A. She described exactly what a high-speed wind-up
10	turn is for and what, as a flight test pilot, they would be
11	looking for, technically, in the stick force gradients and
12	why MCAS would be needed for that. And that a pilot would
13	never see MCAS activate. It was outside of the normal
14	operating range.
15	And those were we were discussing what kind of
16	training would be required. I was concerned about that.
17	Q. Was Mr. Forkner participating in this
18	conversation?
19	A. Yes.
20	Q. What was he doing?
21	A. He was standing next to Christine, nodding, fully
22	engaged, as we talked through my concerns for MCAS.
23	Q. So during this conversation, did you get a new
24	understanding or the same understanding about whether MCAS
25	would operate outside this high-speed corkscrew turn?

1	A. It is the same understanding.
2	Q. About how long did this conversation last?
3	A. About five to seven minutes.
4	Q. Based on the presentation and this conversation,
5	did you have any belief that MCAS would operate outside of
6	what you were told?
7	A. No.
8	Q. And did you think that pilots needed to be trained
9	about MCAS, given what you were told about it?
10	A. No.
11	Q. Why not?
12	A. In addition to the outside the normal operating
13	envelope, it would be not a system that the pilots would be
14	able to turn on and off, so they wouldn't be able to
15	interact with it.
16	And that it would only operate under these
17	conditions, and a pilot would never find themselves in these
18	conditions, and so it wasn't something that we considered
19	that we would have to train on.
20	Q. Did you have any other conversations with Mr.
21	Forkner about MCAS after this point?
22	A. Yes.
23	Q. And what did he tell you about whether MCAS would
24	kick in during a normal passenger flight?
25	A. That it would not a pilot would never see MCAS.

1	Q. And in these conversations, did he tell you
2	anything about whether MCAS would kick in beyond this
3	high-speed corkscrew turn?
4	A. No.
5	Q. And how did these explanations from Mr. Forkner to
6	you come up?
7	A. They came up in a number of ways, both in meetings
8	and then in the flight crew operating manual that they had
9	proposed for concurrence, also had the same information as
10	the 2015 presentation.
11	Q. Were the explanations that you did receive from
12	Mr. Forkner about how MCAS worked important or unimportant
13	about your understanding of MCAS?
14	A. They were important.
15	Q. Why is that?
16	A. It is the basis in which we use to determine
17	whether or not we would evaluate the system for pilot
18	training.
19	Q. Ms. Klein, did you continue talking with Mr.
20	Forkner about MCAS into March of 2016?
21	A. Yes.
22	Q. I'm showing you what is in evidence at GX-13.
23	MR. ARMSTRONG: Ms. Holbrook, can you please blow
24	up that portion of GX-13, please?
25	Thank you, ma'am.

1	BY MR. AR	MSTRONG:
2	Q.	Ma'am, who was this email from?
3	A.	This is from Mark Forkner to Stacey Klein and Eric
4	Perkins.	
5	Q.	And what is the date?
6	A.	March 30th, 2016.
7	Q.	And what is the subject?
8	A.	MCAS lives in both FCCs.
9	Q.	What is an FCC?
10	A.	An FCC is a flight control computer. There are
11	two on the	e MAX.
12	Q.	What does that mean to you, MCAS lives in both
13	FCCs?	
14	A.	It means that I had requested additional
15	information	on on how MCAS was hosted on the aircraft.
16		Because it was required for a flight test
17	compliant	regulation, I was concerned that MCAS would
18	operate a	ll the time.
19		And so I had requested how is MCAS hosted on the
20	aircraft.	
21	Q.	And this is the answer that you got back
22	essential	ly from Mr. Forkner?
23	A.	Yes.
24		MR. ARMSTRONG: Ms. Holbrook, if you can please
25	highlight	the first sentence?

	4:21-cr-00268-O-1 Vol 2 March 21, 2022 Page 3
1	BY MR. ARMSTRONG:
2	Q. It says, "Aaron, I confirmed with the flight
3	controls engineers at MCAS does live in both FCCs and needs
4	one to function."
5	Do you see that, ma'am?
6	A. Yes.
7	Q. So who did Mr. Forkner tell you that he confirmed
8	with the operation of MCAS?
9	A. The Boeing flight control engineers.
10	Q. Do you know how many flight control engineers
11	generally worked at Boeing on the MAX around this time?
12	A. I don't have an exact number, but they are
13	responsible for developing the aircraft, so they have
14	thousands of engineers.
15	Q. Why did you ask Mr. Forkner your question about
16	how MCAS operated instead of tracking down every one of
17	these thousands of flight control engineers at Boeing?
18	A. Because Mark is my direct counterpart part. He's
19	the one that knows who and where to get that information
20	from.
21	MR. ARMSTRONG: Ms. Holbrook, if you can please
22	blow up I'm sorry please highlight the second
23	sentence.

24 BY MR. ARMSTRONG:

25

"So given that, are you okay with us removing all Q.

25

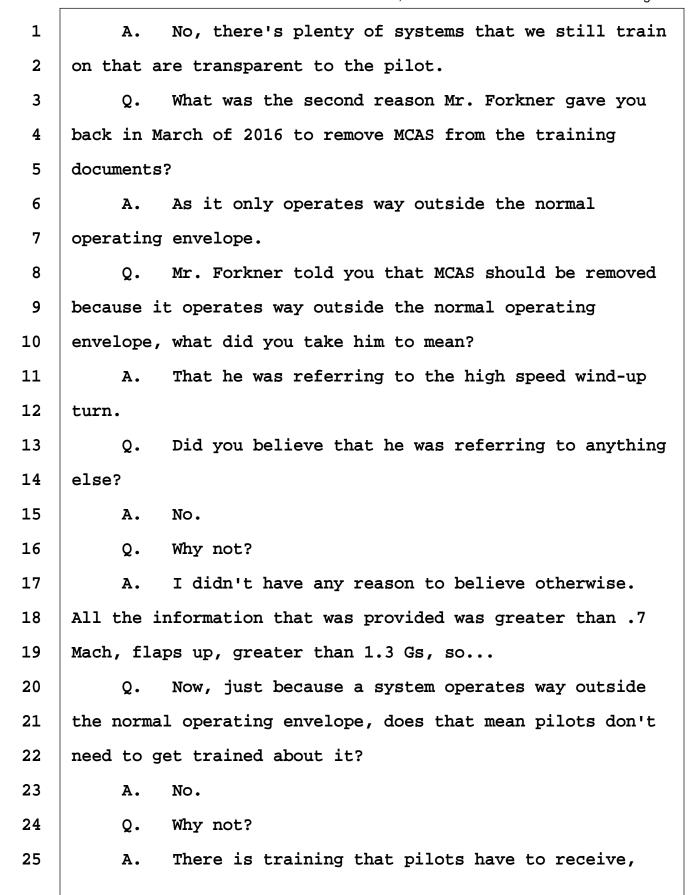
Q.

1	references to MCAS from the FCOM training, as we discussed,
2	as it is completely transparent to the flight crew and only
3	operates way outside of the normal operating envelope?"
4	Do you see that, ma'am?
5	A. Yes.
6	Q. So what is Mr. Forkner asking you to do with
7	respect to MCAS?
8	A. He's asking if it would be okay for them to remove
9	all reference to MCAS from the flight crew operating manual
10	and from the proposed training.
11	Q. What does that mean, the FCOM?
12	A. The FCOM is the flight crew operating manual.
13	Q. Is that FCOM helpful for pilots?
14	A. Yes.
15	Q. Why is that?
16	A. The FCOM is has all the system descriptions, it
17	has checklists, it is like the manual for the aircraft so
18	that pilots know how to interact with the aircraft.
19	Q. Mr. Forkner also asked you, "If you are okay with
20	removing MCAS from the training," based on this email, what
21	was he talking about?
22	A. So the training was in development for us to
23	evaluate, and so they wanted to remove MCAS from the
24	training proposal.

Essentially, that iPad or computer-based training?

1	A. Yes, sir.
2	Q. So in this email Mr. Forkner is asking you to
3	remove MCAS from what?
4	A. The FCOM and the training.
5	Q. And was it your decision or Mr. Forkner's?
6	A. It was my decision.
7	Q. Do you see where Mr. Forkner says, "As we
8	discussed"
9	A. Yes.
10	Q. Did you actually discuss with Mr. Forkner removing
11	MCAS from the training and the FCOM?
12	A. Yes. He had requested that the MCAS get removed
13	from the FCOM and the training. And so he was just
14	confirming our question that we had asked for more
15	information about how MCAS operated on the aircraft and was
16	hosted on the aircraft.
17	Q. And based these discussions, did you believe that
18	MCAS would operate at high speed or low speed?
19	A. High speed.
20	Q. And in these conversations, did Mr. Forkner tell
21	you anything about whether MCAS would kick in outside of the
22	high speed corkscrew turn?
23	A. No.
24	Q. Did Mr. Forkner give you any reasons for why he
25	was asking you to remove MCAS from these documents in this

email?	
А.	He did.
Q.	All right.
	Where do you see that?
A.	After the comma, the last part of the sentence.
Q.	And can you read that to the jury?
A.	Sure.
	"As it is completely transparent to the flight
crew and	only operates way outside the normal operating
envelope.	п
Q.	What does that mean to you, "transparent to the
flight cr	ew"?
A.	It means it's invisible, that the flight crew
would not	be aware of its operation or be able to turn it on
and off.	
Q.	So, in this context, what would be invisible to
the pilot	at least at this time?
A.	Yes.
Q.	What would?
A.	Oh, MCAS operation.
Q.	And this was back in March of 2016, right?
A.	Yes, sir.
Q.	Now, just because something is transparent to the
pilot, do	es that mean a pilot automatically needs zero
training	about it?
	A. Q. A. Q. A. crew and envelope. Q. flight cr A. would not and off. Q. the pilot A. Q. A. Q. A. Q. pilot, do



full flight simulator training, they need to receive in 1 2 order to learn how to recover the aircraft. Have you heard of something called "extended 3 Q. 4 envelope training"? 5 Α. Yes. What's that? 6 Q. 7 Α. EET training is required for simulator training. It is where an aircraft would encounter, say, a thunderstorm 8 9 and it would become upset, high-pitch angle or low-bank 10 angle or, I'm sorry, high bank angle low pitch, and the pilot has to learn how to recover the aircraft safely. 11 12 Q. And you mentioned this, but pilots learn about 13 extended envelope training where? 14 Repeat the question? Α. 15 0. Sure. I think you mentioned this, but where do pilots 16 17 get training about this extended envelope training? 18 Oh, EET training is required in a full flight Α. 19 simulator. 20 And why does the AEG have extended envelope Q. training? 21 Because there has been aircraft accidents resulted 22 Α. 23 from upsets. 24 0. Did you discuss with Mr. Forkner this extended 25 envelope training?

1	A. Yes, we did.
2	Q. In what context?
3	A. It was a new regulation that the FAA had
4	instituted, and the regulation was going to take effect
5	prior to the certification of the MAX, and Mark was
6	concerned that we would have to have a full flight simulator
7	training requirement in order to accommodate that regulation
8	for the MAX.
9	Q. So based on Mr. Forkner telling you that MCAS
10	operates way outside the normal operating envelopes, what
11	speed did you take him to mean?
12	A. High speed.
13	MR. ARMSTRONG: And, Ms. Holbrook, can you please
14	pull that GX-12 in evidence?
15	And, Ms. Holbrook, if you can please blow up the
16	top half of the document, please.
17	BY MR. ARMSTRONG:
18	Q. Ma'am, do you see this is an email from Mr.
19	Forkner to a few other people?
20	A. Yes. This is from Mark Forkner to Scott Andersen
21	and John Collier, cc'ing Ross Chamberlain, Mauricio Palacio,
22	and Patrik Gustavsson.
23	Q. Is the date March 8, 2016?
24	A. Yes.
25	Q. Are you on this email?

1	A. No, I'm not.
2	Q. Did you see it during your evaluation of the MAX?
3	A. No, I did not.
4	MR. ARMSTRONG: And, Ms. Holbrook, if you can
5	please blow up the through Level B. The first sentence
6	and a half, please.
7	BY MR. ARMSTRONG:
8	Q. Ma'am, do you see that on the screen?
9	A. Excuse me, yes.
10	Q. What is Mr. Forkner describing as the biggest
11	threat to Level B?
12	A. He says, "Here's the flight controls module
13	updated with a thorough review by the flight controls
14	engineers. This module, of course, is a big one for us.
15	The material poses the greatest threat to Level B."
16	So I think let me just continue reading.
17	So I think he's talking about the flight controls,
18	the different storyboard. Scott Anderson was the one that
19	was developing the training for Boeing.
20	Q. The flight controls on the MAX?
21	A. Yes.
22	Q. What level of scrutiny did you give to changes to
23	the flight controls on the MAX?
24	A. A high level of scrutiny.
25	Q. Why did you give a high level of scrutiny to the

1	changes in the flight controls on the MAX?
2	A. There were going to be two tests conducted to make
3	sure that the flight controls were not did not pose a
4	threat to the handling qualities of the aircraft.
5	And so it needed to be evaluated against the NG to
6	ensure either that they felt the same, and if they didn't
7	feel the same, then we would require a higher level of
8	training.
9	Q. How important were the changes to the flight
10	controls in the MAX in deciding whether Level B or a high
11	level of training would be appropriate for the MAX?
12	A. There were many flight control changes and so they
13	were it was a big deal to evaluate those.
14	Q. Okay.
15	MR. ARMSTRONG: Ms. Holbrook, if you can please
16	take that down.
17	BY MR. ARMSTRONG:
18	Q. Back in 2016-2017, were there other people at the
19	FAA working on the MAX?
20	A. Yes.
21	Q. Did those people include people in the aircraft
22	certification office?
23	A. Yes. The Seattle aircraft certification office.
24	Q. Approximately how many people in the Seattle
25	aircraft certification office worked on the MAX back in

20	01	.6	,	2	0	1	7	?
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- A. Approximately, a team of 18 or 20.
- Q. And did the aircraft certification office or the ACO evaluate the engineering design of the MAX?
- A. Yes. The ACO's responsibility is to evaluate the engineering design for compliance with the certification, the airworthiness certification requirements for the airplane.
- Q. Is the ACO or the airline certification office essentially just trying to make sure that the airplane is safe to fly from an engineering standpoint?
- A. Yes. So they are responsible for the aircraft, that it is safe to fly, it won't fall apart in the middle of the sky. And we are responsible for evaluating the training associated with that aircraft.
- Q. Was the ACO's function the same function or a different function compared to yours at the AEG?
- A. It's a different function. They are finding compliance to totally different regulations.
- Q. Can the ACO tell you, for example, the AEG, the level of training for the MAX?
- A. No. They are not familiar with the training requirements that I have responsibility for oversight for.
- Q. Nonetheless, did you reach out to your ACO colleagues to understand how MCAS worked around this time,

1	in	early	2016?
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- A. I did.
- Q. Why did you reach out to your colleague on the other side to understand how MCAS worked?
- A. After my conversation with Mark and Christine in the hallway, I reached out to our flight controls engineer and are -- one of our flight test pilots to understand if that is how the system was designed and worked, to evaluate whether or not we would require some sort of training for that system.
- Q. Did you confirm with the ACO whether MCAS operated outside the high-speed corkscrew turn?
- A. Yes. It would only operate at a high-speed wind-up turn.

I needed to understand what stick force -- excuse me -- stick force gradient that they were testing for, so they understood under what conditions the aircraft would be flying when the system would actually activate.

- Q. Did the ACO tell you when a pilot would expect to see MCAS kick in back in March 2016 or around then?
 - A. Can you repeat the question?
 - Q. Sure.
- Did the ACO tell you when MCAS would be expected to kick in, back in March 2016?
 - A. Oh, yes. It would only kick in during the

1 high-speed wind-up turn outside of the normal operating 2 envelope. 3 What did you then decide at the time about the 0. 4 amount of training that pilots needed for MCAS based on the 5 descriptions you received? I had decided that we would not need to include 6 Α. 7 training to evaluate that system. 8 Based on explanations provided to you by who? 0. 9 Both Mark Forkner and corroborating that Α. 10 information from my colleagues in the flight test group and 11 the flight engineering group. 12 Ms. Klein, in August 2016, did you make a Q. 13 provisional Level B decision for the MAX? 14 Α. Yes. 15 0. What does that mean "provisional Level B"? So we had conducted the evaluation in July and 16 Α. 17 August of 2016, and upon completion, had agreed that Level B 18 would be an appropriate level of training. 19 But the aircraft had not been certified yet, so we 20 gave a provisional Level B determination, pending no significant design changes. 21 22 Pending what? Q. 23 No significant design changes. Α. 24 Q. Did you tell Mr. Forkner about your provisional Level B decision for the MAX?

A. Yes. I wrote a letter.
Q. Did you tell him that your provisional decision
could change if were there any significant changes to the
MAX?
A. Yes.
Q. And you mentioned you sent him this decision?
A. Yes. In a letter.
Q. All right. I'm showing you, ma'am, GX-18, which
is in evidence.
MR. ARMSTRONG: Ms. Holbrook, if you can please
blow up the top of the email please in GX-18.
BY MR. ARMSTRONG:
Q. Ma'am, do you recognize this email?
A. Yes.
Q. What is it?
A. It is an email from myself to Mark Forkner and
Ross Chamberlain.
Q. And what is the date?
A. August 18th, 2016.
Q. And what do you write in this email?
A. "Ross, here is the signed letter for Gate 4
acceptance."
Q. Why do you address this email to Ross?
A. Ross was kind of the administrator of the team,
and so he had requested he was the gatekeeper of all of

1	the docum	mentation.	
2	Q.	And you say, "Here is a signed letter."	
3		What letter are you talking about?	
4	A.	The PCP Gate 4 Letter of Acceptance.	
5	Q.	Is that essentially your provisional Level B	
6	letter?		
7	A.	Yes.	
8	Q.	And did you actually attach the Level B letter to	
9	this emai	l in GX-18 Government Exhibit 18?	
10	A.	Yes.	
11		MR. ARMSTRONG: Ms. Holbrook, if you could please	
12	pull up page 2.		
13	BY MR. AR	MSTRONG:	
14	Q.	Ma'am, what is this letter?	
15	A.	This is the letter that outlines the provisional	
16	acceptano	e of Level B.	
17		MR. ARMSTRONG: And, Ms. Holbrook, if you can	
18	please bl	ow up the top half of this document, please.	
19	BY MR. AR	MSTRONG:	
20	Q.	What is the date of this letter?	
21	A.	August 17th, 2016.	
22	Q.	And who did you address it to?	
23	A.	Captain Stephen Taylor.	
24	Q.	Who is that?	
25	Α.	He was the chief pilot of the director of the	

flight training group that Mark worked for. 1 2 Why were you sending this letter to Captain Q. 3 Taylor? 4 Captain Taylor was Mark's boss at the time. Α. 5 0. And was that the normal practice to send these kinds of letters to Mr. Forkner's boss? 6 7 Α. Yes. We always sent it to the head of the 8 department. 9 MR. ARMSTRONG: Could you please take this down, 10 Ms. Holbrook? 11 BY MR. ARMSTRONG: 12 Who signed this letter? Q. 13 Α. Myself. 14 MR. ARMSTRONG: Ms. Holbrook, if you can please 15 pull up paragraph 2. Ms. Holbrook, if you can please highlight 16 17 through -- right there. 18 BY MR. ARMSTRONG: 19 Ma'am, could you please read those first two 0. 20 sentences for the jury on GX-18? 21 Α. Sure. 22 "Provisional approval of training course C. 23 Boeing course C is provisionally approved by the FSB." 24 What is training course C? Q. 25 As part of the pilot qualification plan to Α.

evaluate the aircraft, there were several different courses 1 2 that were going to be evaluated. The first one that we evaluated was training 3 4 course C, which was the differences training between the NG 5 and the MAX. So how did y'all get to C? 6 Q. Okay. 7 Α. That was a Boeing developed decision. What was your decision as to this training course? 8 Q. 9 B level training. Α. 10 And was this B level training for essentially the Q. 11 iPad or computer-based training? 12 Α. It is in the previous paragraph, paragraph Yes. 13 1. 14 And was this decision final or something else? 0. 15 Α. Provisional is temporary, pending no No. 16 significant design chance. 17 0. And did you explain in this letter how your Level 18 B iPad or computer-based training decision was temporary or 19 provisional? 20 The next sentence identifies that it was a Α. Yes. 21 contingency. 22 MR. ARMSTRONG: And, Ms. Holbrook, if you can 23 please highlight the sentence. 24 BY MR. ARMSTRONG: 25 And, Ms. Klein, can you please read that sentence Q.

1	for the Jury?
2	A. Sure.
3	"This approval is contingent upon no significant
4	aircraft design changes being incorporated into the MAX
5	prior to FAA Part 25 certification."
6	Q. What does that mean, "the approval is contingent
7	upon no significant aircraft design changes"?
8	A. The aircraft was in the final stages, but
9	sometimes design changes occur. And so I wanted to make
10	sure that we would have the opportunity to evaluate any
11	design changes by making it contingent.
12	So no significant design changes.
13	Q. So what is the impact of your provisional Level B
14	training to be?
15	A. Any design change.
16	So in this case, the expansion of MCAS.
17	Q. Who did you trust to tell you about any
18	significant design changes to the MAX after this
19	August 17th, 2016 letter?
20	A. Mark Forkner.
21	Q. Why is that?
22	A. It was his job to inform me of design changes.
23	Q. Did you talk to with Mr. Forkner around this time?
24	A. Yes.
25	Q. In phone or in person?

1	A. He was with us during the evaluation down in
2	Miami, so in person.
3	Q. How did Mr. Forkner react when you told him about
4	this provisional Level B decision you made in August 2016?
5	A. He was elated.
6	Q. Why do you say he was elated?
7	A. That we had determined that B level training to be
8	sufficient on the MAX. He was excited.
9	Q. How did you feel about the decision at the time,
10	back in August 2016?
11	A. At the time I was very confident.
12	Q. Why were you confident?
13	A. We I had put together a robust evaluation that
14	included airline pilots, FAA pilots, and we put together a
15	quantitative evaluation to evaluate those system
16	differences, and so I was confident in our ability to
17	complete that evaluation and that it was appropriate and
18	sufficient. And so I was confident in that determination.
19	Q. Had you a chance to actually fly the MAX around
20	this time, August of 2016?
21	A. Yes.
22	Q. Around this time did anybody tell you that MCAS
23	was expanded under low speed?
24	A. No, they did not.
25	Q. Did you ever think that Mr. Forkner wouldn't tell

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1
    you about changes to the MAX after August 2016?
 2
          Α.
               No.
               MR. ARMSTRONG: GX-21, please, Ms. Holbrook.
 3
 4
               You can go to page 2, please, Ms. Holbrook.
 5
               If you can please blow up the top part, please,
    Ms. Holbrook.
 6
 7
     BY MR. ARMSTRONG:
               Ma'am, do you see that this is a November 10, 2016
 8
          0.
 9
     email from Mr. Forkner to some other people in Boeing?
10
          Α.
               Yes.
11
          0.
               Did you have access to this email at the time of
12
    your evaluation?
13
                    This is an internal email.
          Α.
               No.
14
               This document is March [sic] 10th, 2016.
          0.
15
               About how many days before the shocker alert, I
     lied unknowingly to regulators' chat in this email?
16
17
               Roughly, five days.
          Α.
               MR. ARMSTRONG: Ms. Holbrook, if you can please
18
19
    highlight the second paragraph.
20
               Actually, I'm sorry. Can you please highlight
     this sentence?
21
22
     BY MR. ARMSTRONG:
23
               Ma'am, do you see where Mr. Forkner writes, "This
          0.
24
     is what we sold to regulators who have already granted us
25
     the Level B differences determination"?
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1	A. Yes.
2	Q. Who was the regulator working with Mr. Forkner in
3	November 2016?
4	A. Myself.
5	Q. And who had granted Mr. Forkner the Level B
6	differences determination at this time?
7	A. I had granted the provisional Level B.
8	Q. Did you view your role at the time as someone who
9	had been sold on the changes on the MAX?
10	A. No.
11	Q. Is that how the evaluation of the MAX is supposed
12	to work?
13	A. No.
14	Q. Why not?
15	A. It is based on mutual trust.
16	Q. Did Mr. Forkner tell you at the time that this is
17	how he described your role to his Boeing colleagues?
18	A. No.
19	MR. ARMSTRONG: Ms. Holbrook, can you please
20	highlight the last sentence?
21	BY MR. ARMSTRONG:
22	Q. "To go back to the now and tell them there is, in
23	fact, a huge difference in how you must operate the MAX
24	during an emergency descent would be a huge risk to that
25	differences training determination?"

1	Do you see that, ma'am?
2	A. Yes.
3	Q. Did you know at the time, in November 2016, that
4	Mr. Forkner expressed concerns his Boeing colleagues were
5	not getting back to you, the regulator, about differences on
6	the MAX?
7	A. No, I did not.
8	Q. Would that have been a concern to you?
9	A. Yes. Because I had raised the concern earlier in
10	the development for the emergency descent spoiler alert. I
11	was concerned about the training that we would have to
12	evaluate.
13	Q. Is that how the evaluation is supposed to work,
14	where differences are not brought to your attention?
15	A. No.
16	Q. All right. Ma'am, let's jump from August 2016 to
17	November 2016.
18	Around this time, did you discuss simulator
19	flights with Mr. Forkner?
20	A. Yes.
21	Q. What is a simulator flight?
22	A. The simulator is a full-flight simulator used to
23	conduct pilot training.
24	Q. How does it work?
25	A. Safely.

It is a full replica of the flight deck of the 1 2 aircraft, and it is either hydraulically or electrically 3 moved to simulate the aircraft actually flying. 4 Is it pretty realistic? 0. 5 Α. Yes, it is very realistic. Did you learn that Mr. Forkner was planning to do 6 Q. a simulator flight on the MAX around November of 2016? 7 Α. 8 Yes. 9 How did you learn that? 0. 10 He was -- he told me. He was headed to Montreal Α. 11 to do simulator fly-outs. He said the simulator was where? 12 Q. 13 Α. In Montreal, Canada. 14 And did he say when he was going to do the 0. 15 simulator flights in Montreal? It was before Thanksgiving, so November of 2016. 16 Α. 17 What was your understanding of why Mr. Forkner was 0. 18 going to do simulator flights in the MAX up in Montreal? 19 So Boeing was developing a simulator. Α. 20 wasn't going to be ready for certification at the time of the delivery of the first airplanes to the operators who 21 22 were already flying the 737. The development was for those 23 airlines that didn't already have a 737. 24 So he was headed to Montreal to evaluate that the 25 simulator was just like the real airplane.

1	Q. Did he actually go?
2	A. Yes.
3	MR. ARMSTRONG: Ms. Holbrook, if you can please
4	pull up GX-22.
5	Ms. Holbrook, if you can please pull up 6:50,
6	please.
7	BY MR. ARMSTRONG:
8	Q. Ma'am, based on your experience, what is Mr.
9	Forkner describing in the first two lines of this chat?
10	A. He's describing the activation of MCAS and that
11	MCAS had been expanded down to Mach .2.
12	Q. And where did he experience this, based on this
13	chat?
14	A. At the simulator.
15	Q. Is that what that means, in the sim?
16	A. Yes.
17	Q. Is that tech lingo?
18	A. Yes, we call the full-flight simulator the sim.
19	Q. After after November 15, 2016, the date of this
20	chat, did you have a chance to sit down with Mr. Forkner and
21	talk to him?
22	A. Yes. The following week we had a meeting.
23	Q. The following week, the week after this chat?
24	A. Yes.
25	Q. Where was this meeting?

4	_	
1	A.	It was at the Boeing Company.
2	Q.	What was the purpose of this meeting, from your
3	perspect	ive?
4	A.	We were discussing the Flight Standardization
5	Board re	port.
6	Q.	Was anybody else there?
7	Α.	Yes.
8	Q.	Who else was there?
9	А.	My colleagues and his colleagues.
10	Q.	Did you ask them how did it go on the simulator up
11	in Montreal?	
12	Α.	Yes. I asked him how it went.
13	Q.	What did he tell you?
14	Α.	And he said it went great, there were a few kinks
15	to work out.	
16	Q.	What was that?
17	Α.	There were a few kinks to work out.
18	Q.	During this meeting a week after this chat, did
19	Mr. Forkner tell you anything about how MCAS is now active	
20	down to Mach .2?	
21	Α.	No, he did not.
22	Q.	Would this information have been important for you
23	to know	at the time for your evaluation?
24	A.	Yes, it would have been.
25	Q.	Why is that?

Because we did not evaluate MCAS, so it would have 1 Α. 2 been important so that we could. MR. ARMSTRONG: Ms. Holbrook, can you please pull 3 4 down to the bottom to capture 6:51, please? 5 BY MR. ARMSTRONG: Ms. Klein, a week after this chat, when you sat 6 Q. 7 down with Mr. Forkner in a meeting, did he tell you how he said the week before, "I basically lied to the regulators 8 9 unknowingly"? 10 Α. No, he did not. 11 0. Did he mention anything at all about that to you? 12 No, he did not. Α. 13 MR. ARMSTRONG: Ms. Holbrook, if you please pull 14 this down and go to page 2. 15 And if you could please pull up 6:53. BY MR. ARMSTRONG: 16 17 Ms. Klein, during this face-to-face meeting with 0. Mr. Forkner, did he tell you anything about, surprise, why 18 19 are we just reading about this now? 20 No, he did not. Α. MR. ARMSTRONG: Ms. Holbrook, if you can please 21 22 pull up GX 22 next to GX-18, the provisional letter. 23 BY MR. ARMSTRONG: 24 0. So, Ms. Klein, in November 2016, did Mr. Forkner 25 tell you that MCAS is now active down to Mach .2?

1	A. No, he did not.	
2	Q. Was the fact that MCAS was active down to Mach .2	
3	a significant aircraft design change that you pointed out in	
4	your provisional Level B letter?	
5	A. Yes, it is.	
6	Q. Why is that?	
7	A. Because the operation of MCAS, prior to the	
8	expansion, a pilot would not see it, and now, if it is able	
9	to activate down to Mach .2, a pilot would have the	
10	opportunity to interact with it, so we would need to	
11	evaluate that.	
12	Q. Did you have a chance to?	
13	A. No, I did not.	
14	Q. Why not?	
15	A. I didn't know the system had been expanded.	
16	Q. Knowing that MCAS is now active down to Mach .2	
17	have affected your Level B decision in August of 2016?	
18	A. Yes.	
19	Q. Can you explain to the Jury why that is?	
20	A. There are many maneuvers that that system would	
21	interact with that is required pilot training in a	
22	full-flight simulator.	
23	And so, I did not have the opportunity to evaluate	
24	that.	
25	Once we learned about the expansion of MCAS, we	

1 did evaluate that and determined E level training would be 2 appropriate. 0. Was it also important for you to know about the 3 4 low-speed expansion of MCAS down to Mach .2 because it could 5 then kick in a passenger flight? Yeah, it would now be available to kick in during 6 Α. the normal -- normal course of operation. 7 MR. ARMSTRONG: Ms. Holbrook, if you can please 8 9 take that down. 10 BY MR. ARMSTRONG: How about how many months are there between 11 0. 12 November 2016 and the shocker alert chat and July 2017 when 13 you set the final Level B decision? 14 About nine months. Α. 15 0. Did you and Mr. Forkner talk over this nine 16 months? 17 Α. Yes. Often. 18 What did y'all talk about? 0. 19 We were talking about the development and Α. 20 publication of the Flight Standardization Board's report. In that context, did you deal with Mr. Forkner 21 Q. 22 directly about MCAS? 23 Yes, I did. Α. 24 How many times in those interactions did Mr. Q. 25 Forkner tell you MCAS is active down to Mach .2?

1	A.	Never.
2	Q.	What was he asking you to do instead with respect
3	to MCAS	in that FSB report you mentioned?
4	A.	He was asking me to remove it.
5	Q.	And you mentioned this term already, the FSB
6	report.	
7	A.	Yes.
8	Q.	Does the FSB report have the level of training for
9	the MAX?	
10	A.	Yes.
11	Q.	Who publishes the FSB report?
12	A.	The Seattle AEG.
13	Q.	And what was your role in writing it as the chair
14	of the FSB?	
15	A.	I wrote it.
16	Q.	Did you work with anyone else in this room about
17	the contents of the FSB report?	
18	A.	Yes.
19	Q.	Who?
20	A.	Mark Forkner.
21	Q.	Around when did you start working with Mr. Forkner
22	on this	FSB report for the MAX?
23	A.	Immediately following the evaluation.
24	Q.	And why were you working with Mr. Forkner as
25	opposed	to somebody else at Boeing?

1	A. Because he was the my direct counterpart as the	
2	chief technical pilot.	
3	Q. Would the FSB report require U.S. airlines, like	
4	American and Southwest, to do anything on the MAX?	
5	A. Yes. They have to follow the training	
6	requirements in the FSB report.	
7	Q. So, for example, if the AEG says that this	
8	difference on the MAX requires Level B, what does the	
9	airline, like Southwest or American, have to do?	
10	A. They have to develop their training program to be	
11	at a minimum of Level B.	
12	Q. Can they say forget Level B, I want to do Level A?	
13	A. No.	
14	Q. Why not?	
15	A. Because it's against the regulation.	
16	Q. If you at AEG say simulator training is required	
17	for this difference, what does an airline have to do?	
18	A. They have to develop simulator training.	
19	Q. Around November 17th, 2016, did you send Mr.	
20	Forkner a draft of that FSB report?	
21	A. Yes, I did.	
22	Q. I'm showing you what in evidence, GX-24.	
23	MR. ARMSTRONG: Please, Ms. Holbrook.	
24	Ms. Holbrook, can you please blow up the bottom	
25	half of this email?	

1	BY MR. AR	MSTRONG:
2	Q.	Ma'am, do you recognize this document?
3	A.	Yes. It is an email I wrote.
4	Q.	Who did you write this email to?
5	A.	To Aaron Perkins, Chip Bosselmann, my two
6	colleague	s, Mark Forkner, Ross Chamberlain and Patrik
7	Gustavsso	n at Boeing.
8	Q.	What is the date of this email?
9	A.	It is Thursday, November 17th, 2016.
10	Q.	How many days after the shocker alert email, where
11	Mr. Forkner described "lying unknowingly to the regulators,"	
12	is this email?	
13	A.	Two days.
14	Q.	And, ma'am, if you can please read the first
15	sentence.	
16	A.	"I've completed the FSB report."
17	Q.	What are you talking about?
18	A.	That I completed the draft Flight Standardization
19	Board report that includes the evaluation of the MAX.	
20	Q.	And did you send this draft to Mr. Forkner and the
21	other members of his team on November 17th, 2016?	
22	A.	Yes, I did.
23	Q.	What did you want Mr. Forkner to do with it?
24	A.	I wanted Mr. Forkner and his team to review it for
25	accuracy.	

1 0. Why? 2 Α. We always share our -- our FSB reports with the 3 manufacturer, but also the template for the report was 4 changing, and so I wanted to make sure that the information 5 that was changed outside of the MAX was also accurate. 6 Q. Did you get a response back? 7 Α. I did. Q. About how long after you sent your draft did you 8 9 get a response back? 10 A few days after this. Α. 11 0. All right. MR. ARMSTRONG: Ms. Holbrook, if you can please 12 13 take that down and please pull up the top half of this 14 email. 15 BY MR. ARMSTRONG: Ms. Klein, do you recognize this is an email that 16 0. 17 Mr. Chamberlain sent to you on November 22nd, 2016? 18 Α. Yes. And who is copied -- who is also copied on this 19 0. 20 email? It is to myself and Aaron Perkins, Chip 21 Α. 22 Bosselmann, and Mark Forkner and Patrik Gustavsson from 23 Ross. 24 Are Aaron Perkins and Dale Bosselmann part of the 0. 25 AEG as well?

1	A. Yes.
2	Q. And who else is on this email?
3	A. Mark Forkner, Patrik Gustavsson.
4	Q. What is the is this email just a follow-up of
5	the draft that you sent on November 17th, the draft FSB
6	report?
7	A. Yes. It's in response to that email with their
8	comments attached.
9	Q. What does Mr. Chamberlain say to you in the first
10	sentence of this email?
11	A. "Attached is the draft with our comments."
12	Q. What is he talking about?
13	A. I had sent the draft FSB report to them for them
14	to review for accuracy, and they are replying with the draft
15	attached with their comments.
16	Q. How many days after the shocker alert that Mr.
17	Forkner was chatting with, with Mr. Gustavsson, did you get
18	this draft back from Mr. Chamberlain?
19	A. A week.
20	Q. One week later?
21	A. Yes. One week.
22	Q. Let's take a look at what they sent you.
23	MR. ARMSTRONG: Ms. Holbrook, if you can please
24	pull up page 28 of GX-24, Government Exhibit 24.
25	///

	1.2 of 66266 6 1
1	BY MR. ARMSTRONG:
2	Q. Ma'am, do you recognize Government Exhibit 24, at
3	page 28?
4	A. Yes. This is the difference table.
5	Q. What does that mean a "difference table"?
6	A. It identifies the NG to the MAX system differences
7	and what level of training and checking is required for each
8	of those differences.
9	Q. All right.
10	MR. ARMSTRONG: Ms. Holbrook, if you can please
11	blow up that part of the differences table.
12	BY MR. ARMSTRONG:
13	Q. Ma'am, we see here on the differences table, we
14	see flight controls and then one, two, three, four
15	five things next to it.
16	What does that mean?
17	A. Of this section, of the flight control systems,
18	there were five systems that were included in this section.
19	Q. And are these new or changed systems on the MAX
20	compared to the NG that pilots would be trained on if they
21	were flying if they were included in here at the end of
22	the day?
23	A. Yes, they are new or changed.
24	Q. And is MCAS on this list?

It is, yes.

Α.

And is it the third bullet down? 1 0. 2 Α. Yes. 3 Did you mean to put MCAS on this draft FSB report? Q. 4 I had inadvertently added it to the Α. 5 difference table. And had you agreed with anyone at this point to 6 Q. remove MCAS from the differences table in the FSB report? 7 8 I had agreed with Mark Forkner. Α. Yes. 9 MR. ARMSTRONG: Ms. Holbrook, if you can please 10 take that down and if you can please blow up from there to 11 there. BY MR. ARMSTRONG: 12 13 Ma'am, is there a line through MCAS in this draft 0. 14 FSB report that you received? 15 Α. Yes. What did you take that line to mean when you got 16 0. 17 it at the time? 18 It's track changes, so it's a request to delete Α. 19 MCAS. 20 And did you have any inclination as to who Q. proposed the deletion of MCAS? 21 22 Α. Yes. It is identified as Mark Forkner requesting 23 that deletion. 24 Q. And where do you see that, ma'am? In the comments to the right of the "MA 9" 25 Α.

1	comment.
2	MR. ARMSTRONG: And, Ms. Holbrook, if you can
3	please take this down and blow up the comment by itself,
4	please.
5	BY MR. ARMSTRONG:
6	Q. So, ma'am, who is "FMA" in this document?
7	A. That is Mark A. Forkner.
8	Q. And what change was he proposing to you?
9	A. He was asking he said, "We agreed to not
10	difference MCAS since it is outside normal operating
11	envelope."
12	Q. Since it is outside the normal operating envelope.
13	Have we seen that language already today?
14	A. Yes. From the 2015 presentation.
15	Q. And also the March 2016 email?
16	A. Yes.
17	Q. Is it true at the time, back in November 2016,
18	that you agreed not to reference MCAS with Mr. Forkner?
19	A. Yes.
20	Q. When did you make that agreement?
21	A. In 2016, based on the transparency and that it was
22	outside the normal operating envelope.
23	Q. When you made that agreement, did you think that
24	MCAS would operate at high speed or low speed?
25	A. High speed.

When you made that agreement, did you think that 1 0. 2 MCAS would operate in passenger flight or as something else? 3 Just during a high-speed wind-up turn. Α. 4 That is the corkscrew maneuver? 0. 5 Α. Yes. And why did you have that understanding? 6 Q. 7 Α. It is the only understanding that I had from the presentation and Mark Forkner's discussions. 8 9 So if Mr. Forkner told you that MCAS is outside 10 the normal operating envelope, did you take him to mean that 11 high-speed corkscrew turn or something else? 12 Α. No, the high-speed wind-up turn. 13 Had you discussed with Mr. Forkner, around this 0. 14 time, MCAS operating in any other scenario? 15 Α. No. Did you have any reason to believe at this time 16 0. 17 that MCAS actually would kick in during passenger flights? 18 Α. No. 19 Did you have any reason to believe at all during 0. 20 this time that MCAS operates at low speed? 21 Α. No. Did Mr. Forkner tell you, in this document or his 22 0. 23 comments, that MCAS is now active down to Mach .2? 24 Α. No. The agreement is outside the normal operating 25 envelope, which is in reference to the 2016 discussion and

1	the 2015 PowerPoint.	
2	Q. Would you have agreed to take MCAS out of this	
3	document if you knew at the time that MCAS was active down	
4	to Mach .2?	
5	A. No, I would have needed to reevaluate the system.	
6	Q. So at the time did you believe that your agreement	
7	was based on right or wrong information?	
8	A. Wrong well, at the time I thought it was right	
9	information.	
10	Q. What do you now know?	
11	A. It was wrong information.	
12	Q. Can you explain why?	
13	A. This request is after Mark learned about the	
14	expansion of the MCAS down to Mach .2.	
15	Q. So what is the significance to you that Mr.	
16	Forkner asked you to "delete MCAS, because, as we agreed, it	
17	is outside the normal operating envelope"?	
18	A. That he lied.	
19	Q. Who did he lie to?	
20	A. Me.	
21	Q. What did he lie about?	
22	A. How MCAS operates.	
23	Q. After this email, did you have another opportunity	
24	to discuss MCAS in the context of the FSB report with Mr.	
25	Forkner?	

1	A.	Yes. A couple of months later.
2	Q.	I'm showing you what is in evidence GX-26.
3		Ma'am, are you familiar with this document?
4	A.	Yes.
5		MR. ARMSTRONG: Ms. Holbrook, if you can please
6	blow up th	ne top.
7	BY MR. ARI	MSTRONG:
8	Q.	What is this email?
9	A.	This is an email from Mark to myself with a copy
10	to Ross.	
11	Q.	What is the date?
12	A.	January 17, 2017.
13	Q.	And the subject?
14	A.	"A few DT updates please."
15	Q.	What does that mean?
16	A.	He's requesting a few differences tables updates,
17	please.	
18	Q.	The differences table, is that what we just looked
19	at in Gove	ernment Exhibit 24, flight controls, MCAS is
20	crossed or	ut?
21	A.	Yes.
22		MR. ARMSTRONG: Ms. Holbrook, if you can please
23	pull down	the zoom to the "delete MCAS" portion.
24	BY MR. ARI	MSTRONG:
25	Q.	Ma'am, what is Mr. Forkner's request of you about

MCAS in this document on January 17th, 2017? 1 2 Α. He's requesting that I delete MCAS. He's referencing, recall we decided we weren't going to cover it 3 4 in the FCOM or CBT since it's way outside the normal 5 operating envelope. MR. ARMSTRONG: Ms. Holbrook, can you please 6 7 highlight "flight controls for the MCAS?" BY MR. ARMSTRONG: 8 9 Ms. Klein, about how many days after the shocker 10 alert, that you saw before, did Mr. Forkner ask you to 11 delete MCAS the second time in this FSB report? 12 Α. Roughly, 60 days. 13 Did Mr. Forkner give you a reason why he's asking 0. 14 you again for a second time to delete MCAS? 15 Α. Yes. He said since it's way outside the normal 16 operating envelope. 17 0. Is it still your agreement with Mr. Forkner, on 18 January 17th, 2017, to delete MCAS from the iPad training or 19 the CBT? 20 Α. Yes. 21 And delete MCAS from the FSB report that we **Q.** 22 discussed before? 23 Α. Yes. 24 Q. In January 2017, is that agreement based on MCAS's 25 operating at high speed or low speed?

1 High speed. Α. 2 Is that agreement based on whether MCAS would kick Q. 3 in during passenger flight or is that the high-speed 4 corkscrew turns? 5 Α. Just the high-speed wind-up turn. In January 2017, 60 days after the shocker alert 6 Q. chat, did you have any reason to believe at all that MCAS 7 would be active down to Mach .2? 8 9 No, I did not. Α. 10 Who did you trust to give you that information in Q. 11 January of 2017? 12 Α. Mark Forkner. 13 Would you still have decided in January 2017 to 0. 14 delete MCAS, if you knew at the time it was active down to 15 Mach .2? I would have had to reevaluate it. 16 Α. No. 17 So what is the significance to you, when Mr. 0. 18 Forkner asked you to delete MCAS, it says, "Do you recall, 19 we decided to delete it because it is way outside the normal 20 operating envelope"? 21 That it's for a high-speed wind-up turn. Α. 22 Do you think he was telling you the truth? Q. 23 I believe he was telling me the truth. Α. 24 What do you now know? Q. 25 He was not. Α.

1	MS. McFARLANE: Objection, your Honor,
2	speculation.
3	THE COURT: Overruled.
4	BY MR. ARMSTRONG:
5	Q. What do you know now, ma'am?
6	A. He did not.
7	Q. Ma'am, did you actually evaluate, as the chair of
8	the FSB, the low-speed expansion of MCAS after the
9	January 2017?
10	A. Yes, I did.
11	Q. I'm sorry.
12	After January 2017, before July 2017?
13	A. Oh, no, I did not.
14	Q. Why not?
15	A. I didn't know about it.
16	Q. Because he didn't tell you?
17	A. Correct. Correct. He did not tell me.
18	Q. Who is "he"?
19	A. Mark Forkner.
20	MR. ARMSTRONG: GX-28, please, Ms. Holbrook,
21	already in evidence.
22	Ms. Holbrook, can you please blow up the top half
23	the email?
24	BY MR. ARMSTRONG:
25	Q. Ms. Klein, is this an email from Mr. Forkner on

July 7th, 2017, Re: FSB Report? 1 2 Yes, sir. Α. Is that ballpark when you, as the chair of the 3 0. 4 FSB, published the final FSB report with Level B training 5 for the MAX? Yes, it is. 6 Α. 7 Q. This report writes, "Attached is the final and approved 737 FSB report, which adds the MAX. This is 8 9 formally approving the MAX as the same type rating as the 10 737 and Level B differences between the NG and the MAX." 11 Do you see that? 12 Α. Yes. 13 Is he talking about your report? Q. 14 Α. Yes. 15 Have you had a chance to review the attachments to Q. Government Exhibit 28? 16 17 The final report. Α. Yes. MR. ARMSTRONG: Please go to page 5, Ms. Holbrook. 18 19 BY MR. ARMSTRONG: 20 What is the Jury looking at on page 5 of Q. Government Exhibit 28? 21 22 Α. This is the cover page of the Flight 23 Standardization Board report, Revision 14, dated July 5th, 24 2017. It is the Boeing 737 FSB report. 25 And who approved it? 0.

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1	A.	Seattle AEG.
2	Q.	Is that you or somebody else?
3	A.	That is me.
4		MR. ARMSTRONG: Page 23, please, Ms. Holbrook,
5	Governmen	t Exhibit 28.
6		Ms. Holbrook, please blow up "Flight Controls."
7	BY MR. AR	MSTRONG:
8	Q.	Ma'am, is this the differences table for the MAX
9	that you	published in July 2017 about flight controls?
10	A.	Yes. This is the differences table between the NG
11	and the M	AX.
12	Q.	So we see here, "Spoilers, loads, lams, jams, MDS,
13	EDS, some	thing spoilers, and assist on"?
14	A.	Yes. Speed breaks.
15	Q.	Does it say anywhere on here MCAS?
16	A.	No, sir.
17	Q.	Why not?
18	A.	I had removed it.
19	Q.	Based on right or wrong information?
20	A.	Wrong information.
21	Q.	When you removed it from the final document, did
22	you think	that MCAS would operate at high speed or low
23	speed?	
24	A.	High speed only.
25	Q.	When you decided Level B for the MAX in July 2017,

1	what did airlines, like Southwest or American, have to train
2	their pilots on?
3	A. What did they have to train their pilots on?
4	Q. Yes.
5	A. IPad training CBT.
6	Q. Did the pilots have to do simulator training at
7	all?
8	A. No, they did not.
9	Q. In July 2017, did any of these airlines have to
10	shoulder the expenses you mentioned before associated with
11	simulator training for MCAS?
12	A. No, they did not.
13	Q. Ms. Klein, last document.
14	MR. ARMSTRONG: GX-31, please, Ms. Holbrook.
15	BY MR. ARMSTRONG:
16	Q. At this time, did Mr. Forkner actually leave
17	Boeing at some point and go somewhere else?
18	A. Yes, he did.
19	Q. Where did he go?
20	A. Southwest Airlines.
21	Q. How do you know he went there?
22	A. He told me.
23	Q. Around when did Mr. Forkner leave Boeing for
24	Southwest Airlines?
25	A. I believe it was the summer of 2018.

1	MR. ARMSTRONG: Ms. Holbrook, if you can please
2	blow up the email.
3	BY MR. ARMSTRONG:
4	Q. Ms. Klein, who is this email from?
5	A. It is from Mark Forkner.
6	Q. To who?
7	A. Bob Waltz.
8	Q. Are you included on this email?
9	A. No, I'm not.
10	Q. What is the date of this email?
11	A. The date is November 14th, 2018.
12	Q. How long after the incident you described in 2018,
13	in October, was this email sent by Mr. Forkner?
14	A. Almost a year and a half.
15	Q. I'm sorry. How long after the October 2018
16	incident?
17	A. Oh, the incident. That is two weeks.
18	Q. Two weeks later?
19	A. Yes. Two weeks later.
20	Q. And where was Mr. Forkner working at the time he
21	sent this email two weeks after that October 2018 incident?
22	A. Mr. Forkner was a technical pilot for Southwest
23	Airlines.
24	Q. What is the subject of this email?
25	A. AEG and MCAS.

1 MR. ARMSTRONG: Ms. Holbrook, can you please 2 highlight the first sentence? 3 BY MR. ARMSTRONG: Ms. Klein, Mr. Forkner writes, weeks after that 4 0. 5 incident, "MCAS is not specifically trained as a difference because most pilots will never stall a 737." 6 7 Is that what he writes? 8 Α. Yes. 9 Ms. Klein, is that the reason why MCAS was not 10 specifically trained for pilots at American and Southwest 11 and other U.S.-based airlines? 12 Α. No, it was not. 13 Did your decision not to train these pilots about 0. 14 MCAS have anything to do with stalling an aircraft? 15 Α. No. And, in fact, we have to train stalls in a full-flight simulator. 16 17 0. What was the reason you, as the AEG, actually 18 decided the pilots wouldn't need training on MCAS? 19 It was based on the operation being a high-speed, Α. 20 high-G maneuver for outside the normal operating envelope, a high-speed wind-up turn. 21 22 How would you characterize what Mr. Forkner is 0. 23 saying in the first line of this email? 24 Α. That it is false. 25 You had a chance to read this email? Q.

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I've reviewed parts of it, yes. 1 Α. 2 Can you please read it to yourself and let me know Q. 3 when you are done? 4 Ms. Klein, anywhere in this email does Mr. Forkner 5 say, "I didn't know that MCAS had changed from high speed to 6 low speed"? 7 Α. No. Does it say anywhere, the engineers at Boeing just 8 Q. 9 didn't tell me about the change? 10 Α. No. 11 0. Does it say anywhere in the documents that I got 12 didn't bring MCAS's change to my attention? 13 Α. No. 14 Does it say anywhere, I didn't know at all the 0. 15 MCAS operates down to low speed? The document speaks for itself. 16 THE COURT: 17 MR. ARMSTRONG: Thank you, Judge. 18 Ms. Holbrook, if you can please highlight the last 19 sentence. 20 BY MR. ARMSTRONG Ms. Klein, can you please read that to the Jury. 21 0. 22 Α. "Ultimately, it was agreed that the existing stall 23 identification systems information in the NG Boeing FCOM, 24 Volume 2, Section 9.20 was sufficient to cover how MCAS 25 provides stall identification."

Is the reason that you decided not to train U.S. 1 0. 2 pilots about MCAS because of the stall identification 3 systems information? 4 Α. No, it was not. 5 0. Does the stall identification system have anything to do with your decision how to train MCAS? 6 7 Α. No. That is not how MCAS was supposed to operate. Did you see here, Mr. Forkner says, "It was 8 Q. 9 agreed" and then talks about the stall identification 10 system, correct? 11 Α. Yes. 12 Did you have any agreement with Mr. Forkner at the 0. 13 time about not training pilots on MCAS because of the stall 14 identification systems? 15 Α. No. How would you characterize Mr. Forkner's 16 0. 17 explanation in this email? 18 False. It is a lie. Α. 19 Q. Why do you say that? 20 The agreement had nothing to do with the stall Α. identification system. It had to do with the operation 21 22 being a high-speed wind-up turn only. 23 MR. ARMSTRONG: No further questions, your Honor. 24 MS. McFARLANE: If I may have a quick bathroom 25 break.

1	THE COURT: In a few minutes.
2	MS. McFARLANE: Okay.
3	CROSS-EXAMINATION
4	BY MS. McFARLANE:
5	Q. Good afternoon, Ms. Klein.
6	A. Hi.
7	Q. My name is Ashlee McFarlane. I'm an attorney
8	representing Mark Forkner.
9	On direct examination you talked about this being
10	a very complicated process. You talked about the
11	certification of this new airplane taking five years,
12	correct, at least?
13	A. Yes.
14	Q. And you talked about there being many groups, many
15	people involved in this process, isn't that right?
16	A. We all have our specialties, so and we are all
17	responsible for certain areas of compliance with the Federal
18	Aviation Regulations.
19	Q. So there are hundreds of people involved in
20	certifying a new aircraft, isn't that correct, Ms. Klein?
21	A. No, that is not correct.
22	Q. How many people would you say are involved?
23	A. The the BASU has about 18 to 20, and then our
24	team has five, including our resident specialist.
25	Q. And there were engineers at Boeing that were

1 involved in designing the airplane, isn't that right? 2 Α. Yes, Boeing is responsible for designing their own airplane. 3 4 So that was also involved in the certification 0. 5 process. Boeing's engineers were also involved, isn't that 6 7 correct, Ms. Klein? Boeing engineers develop and design the 8 Α. Yes. aircraft. 9 10 Q. Thank you. 11 So there were many groups, you have got Boeing 12 engineers, you have got test pilots at Boeing, you have got 13 test pilots at the FAA, you have got, you said BASU, which 14 is another group of engineers at the FAA? 15 Α. I would like to make a clarification --THE COURT: Hold on. Don't talk over each other. 16 17 Wait for her to finish her question, and then she will wait 18 for you to finish your answer. 19 THE WITNESS: Okay. 20 BY MS. McFARLANE: I was -- I was speaking, Ms. Klein, of the 21 0. 22 different groups of people that were involved. And then you 23 have got the AEG group, your group at the FAA that is 24 involved with training, and then you also mentioned an ACO 25 group, which is the test pilots or other certification

1	groups at the FAA, isn't that correct?
2	A. The BASU is part of the ACO. It is all one group,
3	and the BASU is responsible for the oversight of the Boeing
4	engineers.
5	Q. The ACO is a subset of the BASU, is that correct?
6	Or is the ACO over the BASU?
7	A. The BASU is the office responsible for finding
8	compliance to the Boeing design of the aircraft.
9	Q. That wasn't my question, Ms. Klein.
10	Is ACO group a subset of BASU?
11	A. No. The ACO is a branch in which the BASU is part
12	of.
13	Q. Okay. So BASU is a subset of ACO, is that
14	correct?
15	A. It is Boeing oversight office, yes.
16	Q. Thank you.
17	So with all of these people working together in
18	this process, you get information from different sources.
19	You get information from test pilots about this
20	plane, isn't that correct?
21	A. I get information from Mark Forkner, and I attend
22	the same meetings as Mark Forkner.
23	Q. Ms. Klein, I need you to answer the question I
24	have asked.
25	Ms. Klein, you get information about this plane

1	and you receive information about this plane, the MAX plane,
2	from test pilots within the FAA and Boeing, isn't that
3	correct?
4	A. Yes. We talk about the different designs.
5	Q. Thank you.
6	You also receive information, Ms. Klein, from the
7	BASU group at the FAA about this plane, isn't that correct?
8	Yes?
9	A. Yes.
10	Q. And, Ms. Klein, you also receive information from
11	others in the ACO group about the MAX plane, isn't that
12	correct?
13	A. No. The ACO engineers work for the BASU.
14	Q. Have you never spoken to an ACO engineer, Ms.
15	Klein?
16	A. Yes.
17	Q. Okay. And you receive information from those ACO
18	engineers, correct, Ms. Klein?
19	A. Yes. They are part of the BASU group.
20	Q. Thank you.
21	A. They are resources for the group.
22	Q. And you receive this information from these
23	various different people and different groups through
24	meetings you attend, isn't that correct?
25	A. Yes.

Presentations that are given, isn't that correct? 1 0. 2 Α. Yes. Phone calls that you have with these different 3 Q. 4 people, isn't that correct? 5 Α. Yes. Emails that you correspond with all of these 6 Q. 7 different subsets of people, isn't that correct? Α. 8 Yes. 9 And all of this information that you receive from 0. 10 all of these different subsets of people inform you on doing your job in the AEG, isn't that correct? 11 12 Α. It helps inform the conversations that Mark Yes. 13 and I would have. 14 It helps inform you to do your job, isn't that 15 correct, Ms. Klein? 16 Α. Portions of it help inform the process, certainly, 17 yes. 18 It helps to inform you in order to do your job 0. 19 with the AEG, isn't that correct, Ms. Klein? 20 It is not the sole --Α. I did not say that, Ms. Klein. It is going to be 21 **Q.** 22 very important that you listen to my question and respond to 23 that. 24 Α. Well, sometimes there are complexities with that. 25 I understand. We will talk about those Q.

1	complexities.
2	A. Okay.
3	Q. So we have mentioned the meetings and the
4	presentations and the calls and the emails, and let's talk
5	about one of those presentations in which you attended and
6	received.
7	I'm going to show you what has been marked as
8	Defense Exhibit Number 35A.
9	MS. McFARLANE: May I approach, your Honor?
10	THE COURT: Yes.
11	BY MS. McFARLANE:
12	Q. Ms. Klein, you are looking at a document we
13	received from the Government through Boeing. It is one of
14	Boeing's documents.
15	Do you recognize this document?
16	A. There were many different
17	Q. Ms. Klein, do you recognize this document?
18	THE COURT: Do you recognize it?
19	THE WITNESS: Can I have some time to review it?
20	MS. McFARLANE: You sure can.
21	THE WITNESS: Thank you.
22	BY MS. McFARLANE:
23	Q. Are you ready, Ms. Klein?
24	A. Not quite yet.
25	Okay. Yes, I'm ready.

1	Q. Okay. The first page of this document is a
2	THE COURT: Hold on a second. Do you recognize
3	the document?
4	THE WITNESS: Oh, yes. I do recognize the
5	document. Thank you.
6	BY MS. McFARLANE:
7	Q. Okay.
8	And this document is a presentation that Boeing
9	gave that you attended about the 737 MAX plane?
10	MS. McFARLANE: Your Honor, the defense would
11	offer Defendant's Exhibit 35A as an official business
12	record.
13	MR. ARMSTRONG: No objection.
14	THE COURT: Defense Exhibit 35A will be admitted.
15	(The referred-to document was admitted in Evidence
16	as Defense Exhibit 35A.)
17	MS. McFARLANE: Thank you, your Honor.
18	Can we please publish the first page?
19	And let's zoom in on that.
20	BY MS. McFARLANE:
21	Q. This, Ms. Klein, is a presentation that was given
22	by Christine Walsh, who is a test pilot at Boeing, and Derek
23	Pratt, who is an engineer, about the MAX handling qualities
24	and you attended this presentation, correct?
25	A. I don't recall attending this particular

1 presentation in 2014. But if my name was on there, then, 2 yes, I recognize the presentation. Would you like a document to help refresh your 3 Q. recollection? 4 5 Α. Yes, that would be great. Sure. 6 MS. McFARLANE: May I approach, your Honor? Thank you. 7 THE WITNESS: BY MS. McFARLANE: 8 9 Ms. Klein, do you now recall whether you attended 10 this presentation? 11 Yes, thank you. Α. 12 And did you attend? Q. 13 Α. Yes. 14 And if you look on the first page of this, it 0. 15 says -- it's the dated May 22nd, 2014, is that correct? 16 Α. Yes. Okay. And this presentation, as I said, was given 17 0. by Christine Walsh and Derek Pratt. And if we could turn to 18 19 page 30 of this presentation, it talks about MCAS. 20 Uh-huh. Α. And it says that MCAS is operational outside of 21 **Q.** 22 the normal operating envelope, high angles of attack only 23 above 1.3 Gs, and it gives that Mach number range of .7 to 24 .8. 25 So, Ms. Klein, when you testified on direct that

you learned about MCAS in 2015, that wasn't accurate, was 1 2 it? 3 I guess it was 2014, that is more accurate. Α. 4 Did you forget about this presentation? 0. 5 Α. I had until you reminded me. 6 Q. Okay. 7 So it is accurate that you learned from Christine Walsh and Derek Pratt about MCAS in 2014, is that correct? 8 9 But this is the same slide from 2015 as Α. 10 well. 11 That's correct. 0. 12 MS. McFARLANE: All right. We can take that down. 13 BY MS. McFARLANE: 14 And this presentation, Ms. Klein, was given by engineers and a test pilot, not by Mark Forkner, isn't that 15 16 correct? 17 Α. Yes, that's correct. 18 And in 2014, when this presentation was given, 0. 19 Mark Forkner said nothing about MCAS, isn't that correct? 20 I don't know. Α. You don't recall him telling you anything about 21 **Q.** 22 MCAS at that time, isn't that correct? 23 Well, we talked about all kinds of changes to the Α. 24 aircraft. 25 Ms. Klein, do you recall, in May of 2014, during Q.

this presentation that you just remembered you had, that 1 2 Mark Forkner did not speak to you about MCAS? Do you recall whether you he spoke to you or not? 3 4 I do not remember that, no. Α. 5 0. Okay. Now, these kinds of presentations were given all 6 7 the time by others, besides Mark Forkner, to you and your group, isn't that correct? 8 9 Α. Yes. 10 And they were talking about details and Q. 11 specifications about this new plane, isn't that correct? 12 Α. Yes. 13 And they were telling you, the AEG, this 0. 14 information so that you can then do your job with the 15 training component, isn't that correct? It was so that Mark and I could --16 Α. Yes. 17 Thank you. Q. 18 -- discuss what those changes are. Α. 19 And in order -- I want to recall something you 0. 20 said on direct. You said that you relied and you trusted Mark 21 22 Forkner to give you details and differences and provide 23 information to you, is that correct? 24 Α. Yes. 25 And you were to rely on him to provide information Q.

to you that he knew, isn't that correct? 1 2 Α. Yes. Because how could he provide information to you if 3 0. he did not know it, isn't that correct? 4 5 Α. Correct. Okay. And you would agree with me that the way 6 Q. 7 that all of these groups were set up at Boeing, that oftentimes Mark Forkner was left out of the loop of 8 9 information, isn't that right? 10 Α. I would not agree with that. 11 You would not agree with that? 0. 12 Α. No. 13 Q. Okay. 14 I don't know is what I'm saying. I don't know if Α. 15 he was left out. You don't know if he was left out of the loop on 16 0. 17 occasion? 18 Occasionally, it -- it appeared that I had more Α. 19 information than him. 20 Occasionally, it appeared you had more information Q. about the MAX plane than Mark Forkner did, isn't that right? 21 22 Α. So what I'm saying is, I don't know if he Yes. 23 was left out. 24 0. Let me just make sure I understand, Ms. Klein. 25 Α. Sure.

1	Q. I don't want to speak over you.
2	There were occasions in which you knew information
3	and details about the plane that Mark Forkner did not know,
4	isn't that correct?
5	A. Yes. There were occasions
6	Q. I'm sorry.
7	MR. ARMSTRONG: Objection, your Honor. Let Ms.
8	Klein finish the question.
9	THE COURT: I think she has answered the question,
10	that there were times when she knew more information than
11	Mr. Forkner. So that is the answer.
12	Ask your next question.
13	MR. ARMSTRONG: Thank you, Judge.
14	BY MS. McFARLANE:
15	Q. And you knew there were occasions in which you
16	knew more than Mark Forkner because you would tell Mark
17	Forkner information about this plane and he had no idea,
18	isn't that correct?
19	A. He would say he didn't have any idea.
20	Q. He would tell you he had no idea, correct?
21	A. Correct.
22	Q. And then you even told others that you there
23	were countless times, numerous times, in which you told Mark
24	Forkner information about this plane and he had no idea.
25	Didn't you say that, Ms. Klein?

1	A. Yes, I did.
2	Q. Okay. And when you were talking when you said
3	that, you were talking with other people at the FAA, isn't
4	that correct? Some of your colleagues?
5	A. Yes.
6	Q. And so you didn't work at Boeing, isn't that
7	correct?
8	A. Correct. I did not work at Boeing.
9	Q. You worked at the FAA?
10	A. Yes.
11	Q. And so you received information from someone else
12	other than Mark Forkner about the MAX plane?
13	A. I would attend the meetings
14	Q isn't that
15	A Boeing would hold.
16	Q. I'm sorry. Let me reask that.
17	And so, Ms. Klein, you would receive information
18	from others, other than Mark Forkner, about the MAX plane,
19	isn't that correct?
20	A. Yes.
21	Q. And so when you said you only received information
22	from Mark Forkner, that was not completely accurate?
23	A. Well, it is Mark's responsibility to notify me of
24	all of the design changes.
25	Q. Okay.

1	MS. McFARLANE: Your Honor, I actually do need
2	that break.
3	THE COURT: All right.
4	Let's go ahead and take about a 10-minute break.
5	THE COURT SECURITY OFFICER: All rise.
6	(The jurors exited the courtroom.)
7	THE COURT: Okay. Please be seated.
8	All right.
9	(Recess)
10	(The jurors entered the courtroom.)
11	THE COURT SECURITY OFFICER: All rise.
12	False alarm.
13	All rise.
14	THE COURT: Please be seated.
15	BY MS. McFARLANE:
16	Q. Ms. Klein, before the break we were talking about
17	Mark Forkner being out of the loop on occasions and you
18	would inform him of changes to the aircraft on occasion.
19	I want to talk about what that loop is supposed to
20	look like, right? The flow of information, right?
21	Engineers at Boeing design the airplane, they get
22	that information to the flight test group and then to Mark
23	Forkner, isn't that correct?
24	A. I don't know what the loop is at Boeing.

1	Boeing?	
2	A.	No.
3	Q.	And you've never said that information that
4	Forkner w	ould have been required to share you should have
5	come directly from flight test engineers? You never said	
6	that?	
7	A.	I don't recall that, no.
8	Q.	Do you recall interviewing with the Government
9	investiga	tors and prosecutors in September 11, 2019?
10	A.	I interviewed with a lot of investigators. Can
11	you refre	sh my memory? Do you have a document?
12	Q.	I absolutely can. One second.
13		MS. McFARLANE: May I approach the witness, your
14	Honor?	
15		THE COURT: Yes.
16	BY MS. Mc	FARLANE:
17	Q.	Ms. Klein, does this refresh your recollection of
18	whether y	ou met with the Government agents and prosecutors
19	on Septem	ber 11th, 2019?
20	A.	Yes. I don't understand. What is this document?
21	Q.	The document is just to refresh your recollection.
22		Does it do so?
23	A.	I didn't write this document.
24	Q.	I didn't ask you that.
25		Does this document refresh your recollection on

A. I met with the Government on September 11th, 2019. Q. Okay. Thank you. If you can turn to page 41 of this document I'm sorry page 7, the paragraph is listed as No. 41 in red. A. Okay. Q. If you can read that to yourself, not aloud. Please let me know when you're done. A. I'm done. Q. Okay. Now, isn't it true that on September 11th, 2019, you told the Government investigators and prosecutors that information Forkner was required to share with you should have come directly from flight tests through engineers? A. I don't recall stating those words. Q. You don't recall stating those words? A. No. Q. Okay. So this document does not accurately reflect your statements? MR. ARMSTRONG: Objection, your Honor. THE COURT: Sustained. BY MS. McFARLANE: Q. But, Ms. Klein, you do know that Mark Forkner had to go and consult with engineers about information to provide to you, isn't that correct?	1	whether you met with the Government on September 11th, 2019?	
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9 A. I'm done. Q. Okay. 11 Now, isn't it true that on September 11th, 2019, 12 you told the Government investigators and prosecutors that 13 information Forkner was required to share with you should 14 have come directly from flight tests through engineers? A. I don't recall stating those words. Q. You don't recall stating those words? A. No. Q. Okay. So this document does not accurately 19 reflect your statements? MR. ARMSTRONG: Objection, your Honor. 21 THE COURT: Sustained. 22 BY MS. McFARLANE: Q. But, Ms. Klein, you do know that Mark Forkner had 24 to go and consult with engineers about information to	7	Q. If you can read that to yourself, not aloud.	
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Q. But, Ms. Klein, you do know that Mark Forkner had to go and consult with engineers about information to	21	THE COURT: Sustained.	
to go and consult with engineers about information to	22	BY MS. McFARLANE:	
	23	Q. But, Ms. Klein, you do know that Mark Forkner had	
provide to you, isn't that correct?	24	to go and consult with engineers about information to	
	25	provide to you, isn't that correct?	

1 Α. Yes. 2 Q. Okay. Mr. Forkner did not design the airplane, isn't 3 4 that right? 5 Α. That's correct. And Mr. Forkner is not an engineer, correct? 6 Q. Not that I'm aware of, no. 7 Α. On direct examination -- I can take that back if 8 Q. 9 you -- or just set it down. We don't need to look at 10 Thank you. anymore. On direction examination, we talked about -- you 11 12 talked about Level B and this computer-based training level, 13 isn't that right? 14 Α. Yes. 15 0. And the AEG or yourself, you are the one that would determine whether this new plane would qualify for 16 17 Level B training, isn't that correct? 18 Α. Yes. 19 0. Okay. 20 And Boeing management and others higher than Mark Forkner sort of set this goal for Level B for the MAX, isn't 21 22 that correct? 23 Α. Yes. 24 And, in fact, it's not unusual for a plane Q. 25 manufacturer like Boeing to request Level B training, isn't

1	that correct?	
2	A. Can you repeat the question?	
3	Q. Sure.	
4	It's not unusual, Ms. Klein, for an OEM or a plane	
5	manufacturer like Boeing to request Level B training from	
6	your group, isn't that correct?	
7	A. No, that's not unusual.	
8	Q. It is not unusual?	
9	A. No.	
10	Q. And, in fact, FAA guidance and regulations	
11	encourage manufacturers to make as few differences between	
12	models as possible, because it's safer, isn't that true?	
13	A. What are you referring to? What regulation are	
14	you referring to?	
15	Q. Are you familiar with the AC 120-53B?	
16	A. Yes. I'm very familiar.	
17	Q. Okay.	
18	And wouldn't you say that's sort of like the rule	
19	book for FSB evaluations and evaluating differences in	
20	airplanes?	
21	A. It's the guidance to the manufacturers on how to	
22	evaluate the differences.	
23	Q. And as you mentioned, you're very familiar with	
24	that regulation, correct?	
25	A. It's not a regulation.	

Or how would you phrase it? 1 0. 2 Α. It's an advisory circular, it's guidance to the 3 manufacturer. 4 Guidance. 0. 5 Α. Yes. So you're very familiar with that guidance? 6 Q. 7 Α. Yes. And you're familiar then that that guidance says, 8 0. 9 "It is intended to enhance safety by encouraging 10 manufacturers to design with the goal of developing common 11 characteristics between related aircraft," isn't that right? 12 Α. Yes. 13 Q. Okay. 14 And so common characteristics between aircraft 15 designs would result in a Level B training, isn't that right? 16 17 Α. It depends on the differences. 18 Well, fewer differences gets lower level of 0. 19 training, isn't that correct? 20 It depends on those differences, ma'am. Α. 21 0. You're right. 22 If there is one very big change, that might --23 that might require higher level -- sorry, higher level of training, isn't that correct? 24 25 Α. It depends on the difference, the system

1	difference.	
2	Q. Okay. But commonalities between the planes makes	
3	the plane safer, isn't that correct? To fly?	
4	A. Commonalities can decrease the amount of training,	
5	yes.	
6	Q. Okay.	
7	Now, on direct examination, you talked about a	
8	meeting in the spring of 2015, after the presentation by	
9	Ms. Christine Walsh. Do you remember testifying to that?	
10	A. Yes. Derek was the presenter, but Christine was	
11	who I talked with, with Mark, in the hallway, yes.	
12	Q. So Derek Pratt, one of the engineers was the	
13	presenter, but after that meeting, you remember speaking	
14	with Christine Walsh, correct?	
15	A. Yes. Yes.	
16	Q. Okay.	
17	And during that meeting, Christine Walsh is who	
18	told you that the parameters of MCAS were wind-up turns,	
19	isn't that correct?	
20	A. Yes.	
21	Q. Mark is that correct? I'm sorry, I don't want	
22	to speak over you.	
23	A. Yes.	
24	Q. Mark Forkner did not tell you that, is that	
25	correct?	

It was Christine Walsh. 1 No. Α. 2 Q. Okay. I would like to pull that 3 MS. McFARLANE: 4 Government Exhibit 13, please. If I can call that out so 5 that we can see it clearer, please, Mr. Payton. BY MS. McFARLANE: 6 Ms. Klein, you recalled discussing this email on 7 0. direct examination with the Government, isn't that 8 9 corrected? 10 Α. Yes. And this is from Mark Forkner to yourself and 11 0. 12 others regarding whether MCAS lives in both FCCs, correct? 13 Α. Yes. 14 And he asked if you were okay with us removing all 15 reference to MCAS. He's talking about Boeing, isn't that 16 correct? 17 Α. Yes. All right. From the FCOM? 18 Q. 19 Yes, and the training. Α. 20 And he needed your permission before that is done, Q. isn't that correct? 21 22 It was an agreement that we would make. Α. 23 Okay. And he says, "As we discussed, it's 0. 24 completely transparent to the flight crew and only operates 25 way outside the normal operating envelope."

1		And on direct you said, "Transparent means
2	invisible	, not able to turn on or off," isn't that correct?
3	A.	Yes.
4	Q.	And MCAS would have been invisible, not able to
5	turn on and off whether it was down to .2 or .7, isn't that	
6	correct?	
7	A.	The way that it was described to me as a
8	high-speed wind-up turn, yes, but the expanded way, we would	
9	have a way to turn it off, ma'am.	
10	Q.	Again, Ms. Klein, I didn't ask you about the
11	expanded way.	
12	A.	Okay.
13	Q.	MCAS, if the only that thing that changed was the
14	speed was	down to .2 instead of .7, it still would have been
15	invisible	to the pilot, isn't that correct?
16	A.	I don't know how to answer that question because
17	it's more	complex than that. It's not it's not no.
18	That's not	t true.
19	Q.	Okay.
20		So are you saying, Ms. Klein, that the expanded
21	MCAS with	the different speed range was no longer
22	transpare	nt to the pilot?
23	A.	That's correct.
24	Q.	Okay.
25		And that's what you believed at that time and

that's what you believe today, that expanded MCAS was not 1 2 transparent? Α. At the time, MCAS was transparent due to how it 3 4 was operating. 5 So maybe you could repeat the question. I'm not following your question, ma'am. I'm sorry. 6 So at the time when Mr. Forkner wrote this 7 Q. Okay. email to you and he said it was completely transparent to 8 9 the flight crew, was that true, at this time? 10 Α. Yes. 11 0. Okay. 12 And he says, "It only operates way outside the 13 normal operating envelope," and on direct you said, "The 14 normal operating envelope was sort of a gate-to-gate 15 flight," right? Takeoff, cruising, landing, correct? 16 Α. Yes. 17 All right. Q. 18 And it's outside of the normal operating envelope 19 because your understanding, a wind-up turn is not something 20 you would experience in a normal flight from Dallas to Houston, correct? 21 22 Α. Correct. 23 And one of the components of MCAS was also that it 0. 24 was a high angle of attack, correct? 25 Α. At a high speed greater than 1.3 Gs, correct.

1	Q. Right.	
2	That was the version that you understood it to be,	
3	correct?	
4	A. Correct.	
5	Q. But even under the expanded version, it still	
6	required a high angle of attack, correct?	
7	A. Yes.	
8	Q. Okay. And a high angle of attack is something	
9	that most of us who are not pilots would refer to as a stall	
10	of some sort, or an approach to stall, right?	
11	A. That's a required training maneuver, ma'am.	
12	Q. That is not my question.	
13	A high angle of attack is something that you could	
14	describe as a stall or an approach to stall, isn't that	
15	correct?	
16	A. It could be depending on what the high angle of	
17	attack parameters were.	
18	Q. Okay.	
19	And so a stall or a high angle of attack, when a	
20	plane is like this, right? Is that right?	
21	A. Uh-huh.	
22	THE COURT: Is that yes?	
23	THE WITNESS: Yes.	
24	BY MS. McFARLANE:	
25	Q. Okay. So the reporter gets down sort of my hands	

are up in the air, but that's not something that any of us 1 2 would experience flying from Houston to Dallas typically, 3 isn't that correct? That's not a normal operating envelope, 4 isn't that correct? 5 It's important that I clarify the reason the expansion to .2 at a high angle of attack is important --6 THE COURT: I think she just asking, though, in 7 terms of her question, a normal operating envelope with a 8 9 plane angled at the high stage? 10 MS. McFARLANE: That's correct, your Honor. 11 That's absolutely correct. 12 THE WITNESS: Yeah, so you could still experience 13 a high angle of attack during takeoff and landing. 14 BY MS. McFARLANE: 15 0. Would that be the normal operating envelope --16 Α. Yes. 17 -- to experience a high angle of attack, because 0. 18 the way you described normal operating envelope was just a 19 normal flight, takeoff, cruise, and landing. 20 Yes, during rotation increasing the angle of Α. attack and rotation when you land, you can experience a 21 22 higher angle of attack, where it could have. 23 So, Ms. Klein, it is your testimony that a high 0. 24 angle of attack is within the normal operating envelope of a 25 flight?

1	A. It's more o	complex than that.	
2	Q. It's more o	complex than that.	
3	A. Yes.		
4	Q. Okay.		
5	Did you rep	resent, even after you learned, or	
6	didn't you represent,	even after you learned about the	
7	expansion of MCAS dow	n to low speed, that it was still	
8	transparent and outsi	transparent and outside the normal operating envelope?	
9	A. I don't red	all what you're referring to.	
10	Q. Didn't you	tell that to the FAA and others that	
11	even after you learne	d MCAS was down to low speed, it was	
12	still transparent and outside the normal operating envelope?		
13	A. Can you sho	w me what you're referring to?	
14	Q. Do you reca	ll that?	
15	THE COURT:	Well, the question, first, is, do you	
16	ever recall saying th	at.	
17	THE WITNESS	: Yeah, as we were gathering	
18	information and learn	ing about the expansion of MCAS.	
19	BY MS. McFARLANE:		
20	Q. Ms. Klein,	I'm sorry, I really don't want to	
21	interrupt. But do yo	ou recall saying that yes or no?	
22	A. I don't red	all exactly that. If you could show me	
23	something that refere	ences what you're talking about, that	
24	would be helpful.		
25	Q. Sure.		

```
I don't understand the context in what your
 1
          Α.
 2
     question is in regards to.
 3
               MS. McFARLANE: May I have Exhibit 187, please?
 4
               Here you go.
 5
               May I approach, your Honor?
     BY MS. McFARLANE:
 6
 7
          0.
               If you could take a look at that, Ms. Klein.
     Okay.
 8
 9
               And specifically if you can turn to the second
10
     page, where it says, "From a training perspective," and read
11
     that paragraph. That may refresh your recollection.
12
               From a training --
          Α.
13
          Q.
               No, no, no.
14
               THE COURT: Just to yourself.
               THE WITNESS: Sorry. My apologies.
15
     BY MS. McFARLANE:
16
17
               Okay. Ms. Klein, are you ready?
          Q.
18
          Α.
               Yes.
19
          0.
               Okay.
20
               Does this document refresh your recollection on
     whether after you learned about the expansion of MCAS that
21
22
     you still represented that it was transparent and outside
23
     the normal operating envelope?
24
               Yes or no, Ms. Klein?
25
          Α.
               It is transparent -- yes. But in context --
```

1	THE COURT: Well, hold on.
2	She's answered your question. If they have any
3	concerns about how complete your answer is, they will be
4	able to ask you further questions. But let's just answer
5	counsel's questions here. So she answered that.
6	MS. McFARLANE: Thank you, your Honor. I will
7	move on.
8	BY MR. ARMSTRONG:
9	Q. Ms. Klein, on direct, we talked about the three
10	documents in which sorry on direct the Government
11	talked with you about the three documents, the three emails
12	in which Mark Forkner said that MCAS was outside the normal
13	operating envelope.
14	Do you recall those documents?
15	A. Yes.
16	MS. McFARLANE: And just for the record, it's
17	Government Exhibit 13, 24, and 26.
18	BY MS. McFARLANE:
19	Q. And each time Mark Forkner represented it was
20	outside the normal operating envelope, correct?
21	A. Correct.
22	Q. Okay.
23	Mark Forkner never in any of those emails said
24	it's only limited to wind-up turns, correct?
25	A. Correct. That language is not used.

And on direct you said, "Well, I had a 1 0. 2 conversation with Mark Forkner where he said it was wind-up turns and high speed," correct? 3 4 Α. Yes. 5 But you spoke to the Government prior to today on 0. at least nine different occasions. 6 7 Α. Yes. September 11th, 2019, September 13, 2019, 8 Ο. 9 December 4, 2019, October 22nd, 2019, April 1st, 2020, 10 December 2nd, 2020, January 13, 2021, February 14th, 2022. 11 And then lastly, as far as I know, March 8th, 12 2022, which was just a few weeks ago, isn't that correct? 13 Α. Yes. 14 And March 8th, 2022, is the first time you've ever 15 said that Mark Forkner discussed with you wind-up turns and 16 high speed, isn't that correct? 17 Α. I would have to see the documents, but in reference to the document, can I see? 18 19 THE COURT: Well, hold on. Forget about the 20 The question to you is, other than on March 8th, document. 2022, have you ever disclosed that? 21 22 THE WITNESS: Oh, I thought I had. 23 BY MS. McFARLANE: 24 You thought you had? Q. 25 The agreement was that it was during a Α. Yes.

Т	nigh-speed wind-up turn from our 2015 post-meeting
2	discussion.
3	Q. For the sake of time, I won't show you every
4	single statement from that time. But you don't recall is
5	it fair to say, you don't recall whether in the eight times
6	leading up to that that you ever discussed a conversation
7	with Mark Forkner, isn't that correct?
8	A. I don't recall if I had a conversation with Mark
9	Forkner?
10	THE COURT: No, the question no, her question
11	is very simple. It is, you met with the Government eight
12	times, investigators, prosecutors, whoever.
13	THE WITNESS: Yes.
14	THE COURT: You met with them eight times. Did
15	you ever tell them in any of these eight times this
16	conversation you had with Mr. Forkner other than on
17	March 8th? That's the question.
18	And either you did or you didn't. Or you
19	remember, or you don't.
20	THE WITNESS: Yes. The conversation was the post
21	2015 meeting referring to the high-speed wind-up turn.
22	THE COURT: And when but do you understand the
23	question? The question is, you met with them on these
24	eight days. The information appears to be that you talked
25	about it in the March 8th date, the March 8th meeting.

Do you remember telling them about it in any of 1 2 the previous meetings? 3 BY MS. McFARLANE: 4 To be clear. It is that Mark Forkner told you 0. 5 that it was wind-up turns and high speed. My recollection is the 2015 meeting discussing it 6 7 with Christine Walsh and Mark Forkner about how MCAS worked after the meeting. And he was present for the explanation 8 9 of the high-speed wind-up turn. 10 He was present for the explanation. Did he tell Q. 11 you? No. Christine Walsh told me. 12 Α. 13 Q. Okay. 14 And so the only time you told the Government that 15 was two weeks ago, that Mark Forkner told you? 16 Α. I'm referencing that meeting in 2015, yes. 17 Okay. We'll move on. Q. Ms. Klein, you also talk about, after the sim 18 19 chat, the November 15, 2016 chat, that you met with Mark 20 Forkner and others in Miami. Do you recall that, saying 21 that on direct? 22 Α. That was not in Miami; that was at Boeing in 23 Seattle. 24 0. Oh, at Boeing. Okay. My apologies. At Boeing. 25 And you said it was shortly after that sim ride,

1	correct?	
2	A.	Yes. The following week.
3	Q.	Okay.
4		And you said on direct that you asked Mark Forkner
5	about the	sim ride and he said, "Everything's fine, but
6	there's a	few kinks to work out"?
7	A.	Yes.
8	Q.	Great.
9		And a few kinks to out, Mark Forkner was telling
10	you there	were a few kinks to work out in the simulator,
11	correct?	Because you asked him about the simulator?
12	A.	Yes.
13	Q.	Okay.
14		And that's common to have kinks in a simulator,
15	isn't that	correct?
16	A.	It's very common
17	Q.	Very common.
18	A.	in the simulator.
19	Q.	To have thousands of issues with simulators while
20	in develop	pment, isn't that common?
21	A.	Well, I don't know about thousands, but it's
22	common in	the development process, yes.
23	Q.	So it would not surprise you that this kink that
24	Mark Fork	ner experienced in the simulator was kink number
25	1,079. So	o 1,079, that would not surprise you, would it?

1	A. No.
2	Q. Okay.
3	And you may or may not know this, but when folks
4	like Mark Forkner and others that are in a simulator
5	discover a kink, or an issue, or an error, they write
6	something in a report.
7	Do you know what that's called?
8	A. Yes, they write it up in a report. I can't recall
9	what it's called.
10	Q. It is a discrepancy report, right?
11	A. Okay.
12	Q. And so if they see an issue or a kink in the
13	simulator, they write it in what's called a discrepancy
14	report, correct?
15	A. Correct.
16	Q. All right.
17	And so what Mark Forkner was telling you, he saw a
18	kink in the simulator, and you would expect him to write
19	that up in the discrepancy report, right? If he saw a kink?
20	A. Sure.
21	Q. Okay.
22	Now, you also talked about on direct that if you
23	had known about expanded MCAS, you would have re-evaluated
24	it, correct?
25	A. Yes, ma'am.

1	Q. All right.
2	And by re-evaluating it, you mean you would have
3	went to Kevin Green, a test pilot for instance, and had him
4	test it out, isn't that correct?
5	A. No.
6	Q. That would not have been one of the things you
7	did?
8	A. No.
9	Q. Aren't test pilots used to test out differences in
10	the plane to determine whether there's pilot training
11	necessary to see if there's differences?
12	A. No. That's our job.
13	Q. That's your job. You actually do that?
14	A. Yes.
15	Q. So you fly the plane to determine whether there's
16	difference in the plane?
17	A. Yes, or the simulator, yes.
18	Q. Or the simulator.
19	A. Yes.
20	Q. So what are test pilots for?
21	A. Test pilots find compliance to the aircraft
22	certification regulations, the Part 25 regulations. I find
23	compliance to the Part 121 and 135 regulations.
24	Q. You're right, compliance. That's not what I'm
25	asking.

1	If you knew of a difference in the plane, between
2	the NG and the MAX, for instance, and you wanted to know
3	what, if any, differences there would be for the pilot,
4	wouldn't you ask Kevin Green to fly whatever that difference
5	would be?
6	MR. ARMSTRONG: Objection, your Honor, asked and
7	answered.
8	THE COURT: Overruled.
9	Go ahead and answer, or answer again, if it has
10	been.
11	THE WITNESS: Occasionally, we would have flight
12	tests look at something for us if we were not available to
13	fly.
14	BY MS. McFARLANE:
15	Q. Right. That's common. That's something that you
16	would do.
17	A. It's not common, no.
18	Q. But it's something that you would do, correct?
19	A. It's something we have done in the past, yes.
20	Q. Okay.
21	And, in fact, you talked about a T2 test on
22	direct, which is actually a test where you fly the airplane,
23	right, and evaluate it. The handling qualities, correct?
24	A. Handling qualities.
25	Yes.

And by handling qualities, it's what the pilot 1 0. 2 experiences, correct? On the plane? When flying the plane? 3 Α. It's the flight controls and the handling of the aircraft. 4 5 And you were actually on that flight, August 9th, 0. 2016, when they tested the handling qualities of the MAX, 6 correct? 7 Α. 8 Yes. 9 0. All right. 10 And when you were on that flight, they actually 11 flew a stall, isn't that correct? 12 Yes, we flew a stall. Α. 13 And MCAS activated but you did not know? 0. That's correct. Well, I don't know if it 14 Α. 15 activated, but we did stall in the aircraft. So you checked out the scenario in which MCAS 16 0. 17 would activate a stall, correct? 18 We did a stall in the aircraft, yes. Α. 19 0. Okay. 20 Did you do a wind-up turn? A wind-up turn is for certification. 21 Α. No. 22 Correct. But you did a stall? Q. 23 Α. Yes. 24 Q. And MCAS activated, but you did not know it 25 because it's transparent to the pilot, correct?

Correct. 1 Α. 2 Q. Okay. Just to clarify, I said correct that we did a 3 Α. 4 stall. I don't know if it activated. 5 THE COURT: Is that because it's transparent? 6 THE WITNESS: Yes. 7 MS. McFARLANE: Correct. THE COURT: You didn't know. Or it might have not 8 9 activated, if it wasn't working? 10 THE WITNESS: Right. THE COURT: Is there -- will there be records, 11 12 like if you land the plane, can you punch a button and it 13 pulls up whether it activated or not? 14 THE WITNESS: The flight test engineers in the back probably have records; we don't get those. 15 BY MS. McFARLANE: 16 17 And there was records of this flight, wasn't 0. 18 there? 19 Yes. It was an AED T2 test, correct. Α. 20 Right. Q. And in that T2 test, the pilots that flew the 21 22 plane that you were on, they said all said, "This feels just 23 like the NG," didn't they? 24 Α. Yes. 25 They all said, "This MAX, this new plane feels Q.

just like the NG, there aren't any differences that we can 1 2 tell," isn't that correct? 3 Α. Correct. And when you don't have differences it's 4 0. 5 commonality, right, in the AC, that's the word that was used in the AC, between the planes? 6 7 Α. Uh-huh. And you get, like you said, a lower level of 8 0. 9 training, isn't that correct? 10 The T2 test is for the type rating determination. Α. The T3 test is for the training differences, for lower 11 levels of differences. 12 13 And even in the T3 test, there weren't -- they 0. 14 still felt and flew the plane as if it was the NG, it was still the same response, isn't that correct? 15 16 Α. The T3 was evaluating the system differences, that 17 did not include MCAS. 18 So the T2 test that did include MCAS, everyone 19 said, "This flew just like the NG"? 20 MR. ARMSTRONG: Objection, your Honor, asked and 21 answered. 22 THE COURT: Overruled. 23 THE WITNESS: We didn't know the MCAS had been 24 expanded, so we were not testing the MCAS as part of the T2, 25 no.

Her question, though, is just the T2 1 THE COURT: 2 flight itself. 3 Right. THE WITNESS: Yes. 4 BY MS. McFARLANE: 5 And at that time, MCAS had been expanded and was 6 on the plane that you were on, correct? 7 Α. I did not know that at the time. That wasn't my question. 8 Q. 9 I didn't know the MCAS was expanded. Α. 10 But you do know that now, that on that flight, the Q. 11 T2 flight you were on, on August 16th -- I'm sorry --12 August 2016, MCAS had been expanded and it felt just like 13 the NG, correct? You know that now? 14 The aircraft passed the T2. Α. 15 0. So pilots didn't say, "This feels just like the 16 NG"? 17 Yes, they did. Α. 18 Q. Okay. Thank you. 19 As part of the certification process, Ms. Klein, 20 you talked about an issue paper --21 Α. Yes. 22 -- that you drafted, right? Q. 23 Α. Yes. 24 And you put the issues that you saw that could Q. threaten Level B, isn't that correct? 25

1	A. Yes.
2	Q. In this issue paper, correct?
3	A. Yes.
4	Q. And you listed about eight or so issues. I may
5	not have the number just right, but there were a more than a
6	few issues, correct?
7	A. Yes.
8	Q. And MCAS was not listed as one of them, isn't that
9	correct?
10	A. That's correct.
11	Q. Okay.
12	MCAS was not a threat to Level B at that time,
13	correct?
14	A. As we understood the system, no, it was not.
15	Q. Ms. Klein, I want to talk about the decision to
16	remove MCAS from the FCOM, which is sort of the training
17	manual for pilots, right?
18	A. Uh-huh.
19	Q. And you agreed to remove it from the FCOM because
20	it was your understanding that it was transparent and
21	outside the normal operating envelope, correct?
22	A. Correct.
23	Q. And that was your same conclusion even after you
24	learned of the expansion, we talked about that earlier?
25	A. No. That's not correct.

Okay. Well, we'll let your testimony stand. 1 0. 2 But the reason why you agreed when it was 3 transparent and outside the normal operating envelope is 4 because transparent functions or invisible functions should 5 not be in the FCOM, isn't that correct? No, that's not correct. 6 Α. 7 Q. Transparent functions that are outside the normal operating envelope? 8 9 Oh, outside the normal operating -- that's Α. 10 correct. 11 That is correct, okay. **Q.** 12 Yes. Α. 13 That was my fault. Q. 14 I thought you were just asking about transparent Α. 15 functions. So transparent and outside the normal operating 16 0. 17 envelope should not be in the FCOM, is that correct? 18 Α. Correct. 19 0. Okay. 20 And so when Mark Forkner asked you to remove it, that's not something that's out of the ordinary or, you 21 22 know, wrong to ask to remove something that is transparent 23 and outside the normal operating envelope, correct? 24 Α. Incorrect. That was very unusual. 25 It was unusual to ask you to remove something Q.

1	that's tra	ansparent and outside the normal operating
2	envelope?	
3	A.	Yes. The first time we had been asked to remove
4	something	from a training document like that.
5	Q.	But you said that should not be in the FCOM,
6	correct?	
7	A.	The reasoning and the system function at the time
8	supported	the request. But that's that was not normal.
9	Q.	Let me be very clear.
10		If a system is transparent and outside the normal
11	operating	envelope, it should not be in the FCOM, correct?
12	A.	If a pilot does not interact with it, it should
13	not be in	the FCOM.
14	Q.	Okay. Thank you.
15		We referred to an incident in October of 2018,
16	correct?	
17	A.	Yes, ma'am.
18	Q.	And that incident involved Lion Air, correct?
19	A.	Correct.
20	Q.	All right.
21		And after that incident, you testified that you
22	learned th	nat MCAS had been expanded down to .2, correct?
23	A.	Yes.
24	Q.	And as we saw in Exhibit 187, or the document I
25	just gave	you, that was after the incident, correct? When

you said it was still -- it's not a system that a flight 1 2 crew would ever experience, correct? That was after the 3 incident? Objection, your Honor, we went 4 MR. ARMSTRONG: 5 over this. 6 MS. McFARLANE: This is a different topic, your 7 Honor. 8 THE COURT: Overruled. 9 THE WITNESS: We were still gathering information. 10 We didn't know how the system completely worked at this time. 11 BY MS. McFARLANE: 12 13 You did not know how the system MCAS worked at 0. 14 this time, after the incident? 15 Α. We didn't have all of the details or the investigation had not been far enough along to know all of 16 17 the intricate details of the system. I don't think. 18 Q. Okay. 19 I've handed you, I handed you this to refresh your 20 recollection. This is a document, an email, your email, correct? 21 22 My email to colleagues back and forth. Α. 23 To colleagues in the FAA. And this was produced 0. 24 to us by the Department of Justice. 25 MS. McFARLANE: And, your Honor, we have a

1	business record affidavit for this document. We would offer
2	Defense Exhibit 187 into evidence.
3	MR. ARMSTRONG: Your Honor, what's the relevance?
4	THE COURT: What is
5	MS. McFARLANE: Materiality, your Honor.
6	MR. ARMSTRONG: Your Honor can we approach?
7	THE COURT: Okay.
8	(Sidebar without being reported.)
9	BY MS. McFARLANE:
10	Q. Ms. Klein?
11	A. Yes, ma'am.
12	Q. This document that you have was written by you
13	November 5th, 2018, correct? The portion that I referred
14	you to before.
15	A. This portion here that you're talking about?
16	Q. It's the second page, remember? You've already
17	testified to this. Do you see that?
18	A. Yes.
19	Q. Okay.
20	So this was written by you November 5th, 2018,
21	correct?
22	A. Correct.
23	Q. And this was after the incident with Lion Air in
24	October of 2018, isn't that correct?
25	A. Yes. This was less than a week after that.

And that incident happened not at high 1 0. Right. 2 speeds, correct? It happened at low speeds, isn't that 3 correct? Α. It happened at mid speeds, mid initial. I 4 Yes. 5 quess low speeds, yes. So you learned that MCAS had expanded to low-speed 6 Q. 7 at this time and you still said that, "MCAS, it was right to take it out of the FCOM because it is not a system that a 8 9 flight crew would experience and it is not designed to work 10 in the normal envelope of the aircraft," isn't that correct? And you even said, "Kevin Green agrees with the 11 decision." 12 13 Kevin Green is a test pilot with the FAA, isn't 14 that correct? 15 Α. But I was talking about the expanded -- the Yes. high-speed decision, and that it was transparent and outside 16 17 the normal operating envelope, yes. That's correct. 18 But you were saying this after you learned about 19 low expansion, correct? You didn't say in this email that 20 we were wrong, did you? 21 Α. No. 22 Q. Okay. 23 In fact, what you said in later correspondence was 24 that, "A decision to increase training level above Level B was purely political," do you recall saying that? 25

1	A. No.	
2	Q. You don't recall saying that?	
3	A. There was a lot going on. If you have a doc	ument
4	that would	
5	Q. I do have a document.	
6	A it would be really helpful.	
7	MS. McFARLANE: Can I have Defense Exhibit 2	3B?
8	May I approach, your Honor?	
9	BY MS. McFARLANE:	
10	Q. Let me know when you're ready, Ms. Klein.	
11	A. I'm ready.	
12	Q. Does this refresh your recollection, Ms. Kle	in?
13	A. Yes. But it was about FTC 12.1.1, not the	
14	original software.	
15	Q. This was the updated software for MCAS, corr	ect?
16	A. That's correct.	
17	Q. But even in the updated software, it was sti	11
18	down to low-speed, correct?	
19	A. Yes, but it had safety precautions that the	other
20	software did not.	
21	Q. Safety precautions like what?	
22	A. It there was software developed into it to	hat
23	would automatically turn it off if an erroneous activa	tion
24	occurred.	
25	Q. Erroneous activation, correct?	

1	A. Yes.
2	Q. All right.
3	And erroneous activation meant when MCAS would
4	trigger when it wasn't supposed to based on what?
5	A. Yes. And it would also not repeatedly trigger.
6	Q. Repeatedly trigger, correct?
7	A. No. The original software developed was a
8	repeated function and this software update took that
9	function away.
10	Q. But you said on direct that if you knew about the
11	expanded MCAS, that it would be level E?
12	A. Yes, but this is 12.1.1. This is a different
13	software than 11.1.1.
14	Q. Ms. Klein, listen to my question.
15	A. Okay.
16	Q. On direct, isn't it true that you said, if you
17	knew about the expanded MCAS, it would be a level E,
18	correct?
19	Do you recall saying that on direct?
20	THE COURT: Is that what you said on direct?
21	THE WITNESS: Yes. But I was referring to
22	THE COURT: Hold on. Okay.
23	BY MS. McFARLANE:
24	Q. Okay.
25	And in an email that we just looked at, you did

1	know about the expanded MCAS?
2	A. Yes.
3	Q. And you said it was transparent and outside the
4	normal operating envelope, correct? And, in fact, several
5	days later after that, the FAA issued an AD, do you recall
6	that?
7	A. Yes.
8	Q. And what is an AD, Ms. Klein?
9	A. It's an air worthiness directive.
10	Q. An air worthiness directive. And it goes out to
11	all of the airlines and pilots, correct?
12	A. It goes out to yes, all of the airlines. They
13	have to incorporate it into their manual.
14	Q. And the FAA sent this AD out to the airlines?
15	A. Uh-huh.
16	Q. Because the incident that happened in October of
17	2018, correct?
18	A. Correct.
19	Q. And this AD was sent just maybe weeks after in
20	November 7th, 2018, correct?
21	A. Correct.
22	Q. And the AD didn't say, we now require simulator
23	training, right?
24	A. No, it did not.
25	Q. In fact, the AD said, follow what?

1	A. Follow the runaway stabilizer checklist, if there	
2	were all of these other flight deck effects occurring.	
3	Q. Right.	
4	Follow what you already know how to do when you	
5	see a runaway stabilizer, isn't that correct?	
6	A. Correct.	
7	Q. There wasn't any additional training added, even	
8	after you knew about the expanded MCAS. It said follow the	
9	training you already had, correct?	
10	A. We still hadn't evaluated it for pilot training.	
11	We were evaluating what we knew at the time and thought that	
12	was the best information that we had, that that was	
13	sufficient.	
14	Q. And at the time you knew it was down to low-speed?	
15	A. That's correct.	
16	Q. Okay.	
17	Thank you.	
18	Now, Ms. Klein, you maintained on direct that no	
19	one told you about low-speed expansion?	
20	A. That's correct.	
21	Q. That you learned after the crash?	
22	A. That's correct.	
23	Q. Right?	
24	And you even said on the stand that Mark Forkner	
25	knew and he lied to you.	

25

1	A. Yes.	
2	Q. Do you recall saying that?	
3	A. I do.	
4	Q. And you said, not only did Mark Forkner not tel	
5	you, really nobody at Boeing tried to tell you, isn't tha	
6	right?	
7	A. Yes.	
8	MS. McFARLANE: May I have Defense Exhibit 12A?	
9	This is my last topic area, your Honor.	
10	May I approach, your Honor?	
11	THE COURT: Yes.	
12	MS. McFARLANE: Thank you.	
13	BY MS. McFARLANE:	
14	Q. Can you take a look at that document, Ms. Klein?	
15	A. Yes. If you'd give me a moment to review.	
16	Q. Sure. Let me know when you're ready.	
17	I'm only going to ask a few questions about it.	
18	A. Thank you. I'm still getting up to speed. I'm	
19	trying to understand, there's a date that says this was to	
20	start the week of July 5th, 2015, but the when and where	
21	says July 5th, 2016.	
22	Q. I can explain.	
23	This, as you can see, this again has the	
24	Department of Justice's Bates numbers on it, which means w	

received this document from the Government, who received it

```
from Boeing -- I'm sorry -- the FAA, actually, not Boeing.
 1
 2
     My apologies.
               MS. McFARLANE: And we have a business record for
 3
 4
     this document, your Honor.
               We would like to offer Defendants' Exhibit 12A.
 5
               THE COURT: 12A?
 6
 7
               MS. McFARLANE:
                               Yes.
                               What is the relevance?
               MR. ARMSTRONG:
 8
 9
                               Pages 1, 2, and 16.
               MS. McFARLANE:
10
               MR. ARMSTRONG:
                               What Bates?
                               2274. The second page. And then
11
               MS. McFARLANE:
     it's number 16 on the bottom. 2293.
12
13
               MR. ARMSTRONG: No objection.
14
               THE COURT: 12A will be admitted.
15
               (The referred-to document was admitted in Evidence
          as Defendant's Exhibit 12A.)
16
17
               MS. McFARLANE:
                               Thank you, your Honor.
               All right. If we can put 12A on the screen for
18
19
     everyone to see.
20
     BY MS. McFARLANE:
21
          0.
               All right.
22
               Ms. Klein, this is a meeting placeholder for a
     tech familiarization meeting. And you're familiar with tech
23
24
     familiarization meetings, right?
25
          Α.
               I am.
```

1	Q. That's when Boeing and others, FAA, other		
2	counterparts get together to talk about the specs on a		
3	plane, the 737 MAX, correct?		
4	A. Yes.		
5	Q. And the placeholder for this meeting was between		
6	July 5th, 2016, after MCAS expanded in March 2016, just so		
7	we know.		
8	A. I didn't know that.		
9	Q. And July 16th, 2016, right?		
10	And if you see, under required attendees, your		
11	name is listed there, Stacey Klein.		
12	MS. McFARLANE: We can highlight that.		
13	BY MS. McFARLANE:		
14	Q. And if we go to the second page, it says this		
15	is from about Patrice Adjibly?		
16	A. Adjibly.		
17	Q. I pronounced it incorrectly, Patrice Adjibly.		
18	And it says, "I've also attached the TCCA work		
19	plan which details the TCCA requirement. I added an FAA		
20	team column to identify needed FAA support."		
21	Okay? And TCCA is Canada, right?		
22	A. Yes. It's the regulatory oversight agency for		
23	Canadian airlines.		
24	Q. So it's like the Canada FAA?		
25	A. Correct.		

1	Q. Okay.			
2	And then if we go to page 16 of that document,			
3	several of the topic areas, they requested for handling			
4	qualities, for instance, where they discussed MCAS			
5	MS. McFARLANE: Can we highlight that FT9? Let's			
6	start with FT9.			
7	BY MS. McFARLANE:			
8	Q. Again, this is July, the week of July 11th, 2016.			
9	MS. McFARLANE: Could we highlight number 2?			
10	BY MS. McFARLANE:			
11	Q. Briefing on maneuver characteristics augmentation			
12	system, MCAS, right?			
13	And they requested your attendance from the FAA,			
14	correct? That's your name, Stacey Klein?			
15	A. Yes. I don't recall this.			
16	Q. Okay.			
17	That's okay. We will get there.			
18	MS. McFARLANE: Can I have 12C, please?			
19	BY MS. McFARLANE:			
20	Q. Now, what I'm handing you what's been premarked			
21	Defense Exhibit 12C, which would be the actual presentation			
22	for that agenda item that we just saw.			
23	MS. McFARLANE: Your Honor, can I approach?			
24	THE COURT: Yes.			
25	///			

Т	BY MS. MCFARLANE:			
2	Q. As you can see, this is a presentation with sort			
3	of the same picture we see on all of the Boeing			
4	presentations of the MAX plane.			
5	It has a Boeing Bates number on the bottom that we			
6	got from Boeing, or actually we got it from the Government,			
7	who got it to from Boeing, and we've got an official			
8	business record for this as well.			
9	Your Honor, the Defense offers Exhibit 12C into			
10	evidence.			
11	MR. ARMSTRONG: Your Honor, we would object.			
12	Ms. Klein has testified that she has no recollection of this			
13	meeting. There's no foundation for this presentation having			
14	been at this meeting at all.			
15	MS. McFARLANE: Your Honor, we have a business			
16	record affidavit to authenticity and official business			
17	record and an agenda item.			
18	THE COURT: Okay. 12C will be admitted.			
19	(The referred-to document was admitted in Evidence			
20	as Defendant's Exhibit 12C.)			
21	MS. McFARLANE: All right. Could we show that on			
22	the screen?			
23	BY MS. McFARLANE:			
24	Q. All right.			
25	So we've seen presentations like this before, and			

1 you've seen them, Ms. Klein. In fact, we looked at one from 2 June of 2015, when they discussed MCAS as well as May 2014, 3 and you forgot about the May 2014 one. Do you recall that? 4 Α. Yes. 5 0. All right. So this is July 2016, about the briefing on new 6 and changed control systems. 7 MS. McFARLANE: Can we highlight that? 8 9 BY MS. McFARLANE: 10 In July 2016. And this is the very presentation, Q. 11 if you see FT9, FT8, and FT9, those were the agenda items at 12 which they requested your presence? Do you recall that? 13 Α. I don't recall attending this meeting. 14 I didn't ask that question. 0. 15 But you did see the agenda item in which this is 16 the very presentation that they requested your presence, 17 correct? 18 Uh-huh. Α. 19 0. Okay. 20 MS. McFARLANE: If we can go to page 7, MCAS 21 Overview. 22 BY MS. McFARLANE: 23 "It's a new system on the MAX. Drive stabilizer 0. 24 input in the airplane nose-down direction to enhance 25 stability at high angles of attack."

1	Two functions.		
2	MS. McFARLANE: Let's highlight that.		
3	BY MS. McFARLANE:		
4	Q. Improves high Mach stick force gradient and		
5	improves low-speed stall characteristics.		
6	Isn't that the very thing you said no one tried to		
7	tell you?		
8	A. Yes.		
9	Q. But they did try to tell you in July of 2016,		
10	isn't that correct?		
11	A. I don't remember this meeting.		
12	Q. The question is, did Boeing tell you or attempt to		
13	tell you in July 2016 of the change in MCAS?		
14	A. I don't recall being at this meeting. I'm sorry.		
15	Q. That is not my question.		
16	THE COURT: Well, other than this meeting, has		
17	Boeing tried to tell you that?		
18	THE WITNESS: No.		
19	BY MS. McFARLANE:		
20	Q. Okay. That's one meeting.		
21	Let's go to another one.		
22	October 2016.		
23	MS. McFARLANE: Can I have Defense Exhibit 14A?		
24	May I approach, your Honor?		
25	THE COURT: Yes.		

1	MS. McFARLANE: Your Honor, this is another agenda			
2	item, a document we received from the Department of Justice,			
3	who received it from the FAA. We have a business records			
4	affidavit for it as well as the presentation that was			
5	provided along with that agenda item. So we are requesting			
6	to offer Defendant's Exhibit 14A, and the presentation, 14C.			
7	MR. ARMSTRONG: Your Honor, same objection. There			
8	is no foundation for these presentations.			
9	THE COURT: Do you want to ask some questions			
10	about these first?			
11	MS. McFARLANE: No problem, your Honor.			
12	THE COURT: Let's see.			
13	BY MS. McFARLANE:			
14	Q. You have a copy of 14A in front of you, Ms. Klein.			
15	A. Okay.			
16	Q. And you can see that this is for October 2016,			
17	correct?			
18	A. Correct.			
19	Q. And again, from the same, as the last presentation			
20	sent from Patrice I'm going to mispronounce the last			
21	name.			
22	A. Adjibly.			
23	Q. From the FAA to you, isn't that correct?			
24	A. Yes. I'm listed.			
25	Q. All right.			
	~ ~			

```
And this is very similar to the last invite that I
 1
 2
     showed as well, right? This is just a different
 3
     presentation in October, correct?
 4
          Α.
               Yes.
 5
          0.
               And it's related to the 737 MAX, correct?
               I don't know what the contents of the attachment
 6
          Α.
          I don't recognize it.
 7
               I can give you the attachment.
 8
          Q.
 9
               MS. McFARLANE: If I can approach, your Honor?
10
               THE COURT: Yes.
11
     BY MS. McFARLANE:
12
          Q.
               So as you can see, this is again a Boeing
13
     presentation, just like the one we just looked at from
14
     July 2016, correct?
15
          Α.
               Uh-huh.
16
               THE COURT: Is that a yes?
17
               THE WITNESS: Yes.
18
     BY MS. McFARLANE:
19
          Q.
               And it's related to MAX airplane, correct?
20
               Yes, to the MAX.
          Α.
21
               MS. McFARLANE: Your Honor, Defendants offer
22
     Exhibits 14A and 14C.
23
               THE COURT: Okay. 14A and 14C will be admitted.
24
     111
25
     ///
```

(The referred-to documents were admitted in 1 2 Evidence as Defendant's Exhibit 14A and 14C.) 3 BY MS. McFARLANE: 4 All right. If we can go to 14C, please. 0. 5 this is a presentation, October 2016, in which Patrice Adjibly invited you to attend, where Boeing updated your 6 group and others at FAA about the flight control systems. 7 Do you see that? MCAS is the flight control 8 9 system on the MAX. 10 Now, let's go to the next page. This is very similar to the presentation we just 11 12 saw, right? Under two functions, so I'm going to belabor 13 the point. But if you can see, it says, "Improves low-speed 14 stall characteristics." 15 So, again, when you say that no one at Boeing tried to tell you or told you about low speeds -- low-speed 16 17 stall characteristics of the MCAS, we now have two examples 18 in which they did. 19 I don't recall being at these meetings, ma'am. Α. 20 Okay. And we will represent to you, Ms. Klein, Q. that we have two more examples. 21 22 Α. Okay. 23 Would you like to see those? 0. 24 Α. Yes, I would. 25 For speed, your Honor, 20A, MS. McFARLANE:

1	Defense Exhibit 20A is an April 2017 invitation, and 20C is			
2	the very same presentation. And 21A is another presentation			
3	from May 2017, all of which have official business records			
4	received from the FAA and provided by the Government.			
5	THE COURT: So do you remember attending meetings			
6	on these very same subjects in April of 2017 and May of			
7	2017?			
8	THE WITNESS: No, I do not.			
9	THE COURT: Okay. Well, I'm going to 20A and			
10	20C?			
11	MS. McFARLANE: 20A, 20C and 21A, your Honor.			
12	THE COURT: And 21A.			
13	MS. McFARLANE: Yes, your Honor.			
14	THE COURT: Not C.			
15	MS. McFARLANE: No, your Honor.			
16	THE COURT: Okay. So 20A, 20C and 21A will be			
17	admitted.			
18	MS. McFARLANE: Thank you, your Honor.			
19	(The referred-to documents were admitted in			
20	Evidence as Defendant's Exhibit 20A, 20C, and 21A.)			
21	BY MS. McFARLANE:			
22	Q. So, Ms. Klein, I've just given you four examples			
23	of meetings in which Boeing disclosed to your group that it			
24	was down to low-speed stall characteristics. Several of			
25	these meetings were before provisional Level B., before you			

1 certified the plane, before you took MCAS out of the FCOM. 2 And you say today that you don't recall attending 3 these meetings. 4 Α. Correct. 5 0. Why didn't you send a delegate to attend in your 6 place? 7 Α. I -- I'm not familiar with these meetings. I'm 8 sorry, ma'am. 9 Why didn't you send a delegate in your place? 0. 10 It's -- it's not my responsibility to send a Α. secondary or tertiary -- if they're available, they can go. 11 12 It's not -- that's not how we get our primary source of 13 information, ma'am. 14 Presentations from Boeing is not how you get your 15 primary source of information about the differences in the 16 plane? 17 Mark Forkner presents the differences of the Α. No. 18 aircraft, ma'am. 19 0. Okay. 20 But didn't you learn in May 2014 about MCAS from a presentation with the very same picture on it? 21 22 Α. Yes. Where we all attended together to learn 23 about the design of the aircraft. 24 Mark Forkner did not present that to you, ma'am. Q. 25 He was there to learn the same information as Α.

1	myself.	
2	Q. Did Mark	Forkner present to you about MCAS in
3	May 2014? Or was those other employees of Boeing?	
4	A. It was the other employees of Boeing.	
5	Q. Okay.	
6	And Mark Forkner was not invited to these four	
7	different meetings I just discussed?	
8	A. Yeah, I	don't recall attending these meetings.
9	Q. And Mark	Forkner was not even invited to attend
10	them.	
11	A. It's fro	m the FAA; Patrice would only be inviting
12	FAA personnel.	
13	MS. McFA	RLANE: Your Honor, if I could have one
14	moment, please.	
15	Just a f	ew more questions, Ms. Klein, and then I
16	will wrap it up.	
17	Could yo	u pull up Defense Exhibit 20A, please?
18	Exhibit	20A, 20, A as in apple.
19	BY MS. McFARLANE:	
20	Q. Okay.	
21	Just rea	lly quickly just for the Jury to see, this
22	is another agenda	item, March 2017, you're invited on this.
23	MS. McFA	RLANE: If we can highlight her name.
24	BY MS. McFARLANE	
25	Q. And Mark	Forkner is not. And you've represented

today that you don't -- you don't recall attending this 1 2 meeting, correct? Α. I don't recall attending this meeting, and 3 4 Samantha wouldn't be inviting Boeing personnel to internal 5 FAA; she would only be inviting FAA employees. 6 Q. Okay. 7 MS. McFARLANE: And then if we go to 20C, page 17 of that quickly, please. 8 9 BY MS. McFARLANE 10 This is the very presentation that you don't 0. 11 recall attending. 12 Α. Correct. 13 Page 17. Or at least it's listed MS. McFARLANE: 14 It's Bates number DOJ 2919. Okay. Yes. as 17. 15 BY MS. McFARLANE: 16 0. And you can see, this presentation also that you 17 missed, this is the third one, it says, "low-speed conditions," correct? 18 19 Α. Yes. It does say that. 20 Q. Okay. And then Exhibit 21A, in May of 2017, this is 21 22 another tech familiarization meeting where your name is 23 listed as a required attendee on the last line. 24 Mark Forkner is nowhere listed on this invitation, 25 do you see that?

1	A. Yes, ma'am.
2	Q. Okay. You talked about when you saw the chat,
3	where it says, it's down to low-speed, that you were angry,
4	and you were sad, that you were appalled, how come no one
5	could tell you.
6	Are you angry, sad, and appalled that you just
7	found out you missed four meetings when you could have
8	learned of low-speed MCAS?
9	A. It's Mark Forkner's job to tell me of the design
10	changes, ma'am.
11	Q. Is that a no?
12	A. It's no.
13	MS. McFARLANE: Pass the witness, your Honor.
14	MR. ARMSTRONG: Ms. Holbrook, if you can please
15	pull up Exhibit 22, please, 650 to 651.
16	REDIRECT EXAMINATION
17	BY MR. ARMSTRONG:
18	Q. Ma'am, this is the document that we talked about
19	before, right?
20	A. Yes.
21	Q. And now Ms. McFarlane asked you questions about
22	how, you don't know what you don't know, right?
23	A. Yes.
24	Q. It's not a terribly controversial point, right?
25	A. Right.

1	Q. At what time did Mr. Forkner say, shocker alert,
2	MCAS now active, down to Mach .2?
3	A. November 15th, 2016, at 6:50 p.m.
4	Q. At what time?
5	A. 6:50 p.m.
6	Q. And then what did he say right there?
7	A. "So I basically lied to the regulators
8	unknowingly."
9	Q. What time did he say that?
10	A. 6:51.
11	Q. How much time is between 6:50 and 6:51?
12	A. One minute.
13	Q. About how much time did it take Mr. Forkner to put
14	two and two together?
15	MS. McFARLANE: Objection to the form of the
16	question.
17	THE COURT: Sustained.
18	BY MR. ARMSTRONG:
19	Q. About how much time is between those two messages,
20	ma'am?
21	A. One minute.
22	Q. Why was it important to your evaluation to know
23	about MCAS being active down to a Mach .2 from Mr. Forkner?
24	A. Because I relied on Mark to be able to provide the
25	system designs to us and the training proposal to us.

1	Q. Did Mr. Forkner say here, I basically lied
2	unknowing to the regulators, but I'm sure Ms. Klein knows
3	anyway?
4	A. No.
5	Q. Ms. McFarlane asked you some questions about the
6	July 2016 meeting and the October 2016 meeting.
7	Do you recall those questions?
8	A. Yes.
9	MR. ARMSTRONG: Ms. Holbrook, will you please pull
10	up 12A? Defense Exhibit.
11	I'm sorry, 14A.
12	BY MR. ARMSTRONG:
13	Q. Ma'am, this is an invitation that Ms. McFarlane
14	asked you about, right?
15	A. Yes.
16	MR. ARMSTRONG: Ms. Holbrook, will you please blow
17	that up?
18	BY MR. ARMSTRONG:
19	Q. Is Mr. Forkner listed anywhere on here?
20	A. No.
21	Q. So going back to you don't know what you don't
22	know, how did Mr. Forkner know what you were being told
23	maybe by someone else at FAA?
24	A. He would not have.
25	Q. Is the process of your evaluation as the chair of

the FSB supposed to work by maybe finding out information by 1 2 chance? 3 Α. No. 4 0. Why not? 5 Α. It's proposed by Mark Forkner's group and Mark 6 Forkner. 7 MR. ARMSTRONG: No further questions, your Honor. Nothing further. 8 MS. McFARLANE: 9 THE COURT: You may step down. 10 Ladies and gentlemen, we probably should end here tonight because I understand there's some weather coming in 11 12 from the west, and so I want to go ahead and get you out of 13 the building and into your car. I don't know how close it 14 is, but it looks sunny out there. That's never a good sign. 15 So I want to get you out. But please remember all of my instructions. 16 17 Please don't conduct any independent investigation. Please 18 avoid any type of news coverage that might talk about this 19 case. 20 We're moving through it at a decent clip. We will be towards the end of it in no time. After it's over, you 21 22 can do all of that you want. Please, in the interim, 23 remember those instructions. 24 We will start again, hopefully, by 9 a.m. in the 25 morning, just as soon as you are all here and we can get you

1	in the courtroom. If that's earlier, we will be here
2	earlier to get you in. So please be careful going home.
3	Have a good night and we will see your first thing in the
4	morning.
5	THE COURT SECURITY OFFICER: All rise.
6	(The jurors exited the courtroom.)
7	THE COURT: Okay. Please be seated.
8	Okay. Don't be late again. Be here on time and
9	early on time. When they're ready, we get them in the box.
10	Don't be walking in late and not without a witness here as
11	well.
12	MR. ARMSTRONG: Understood.
13	THE COURT: Anything else we need to take up?
14	MR. JACOBS: No, your Honor.
15	MS. McFARLANE: No, your Honor.
16	THE COURT: All right. We will see you-all in the
17	morning.
18	(Proceedings concluded at 5:00 p.m.)
19	
20	
21	
22	
23	
24	
25	

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1	CERTIFICATE
2	
3	We, Zoie M. Williams, RMR, RDR, FCCR and Kelli Ann
4	Willis, RPR, CRR, CSR certify that the foregoing is a
5	transcript from the record of the proceedings in the
6	foregoing entitled matter.
7	We further certify that the transcript fees format
8	comply with those prescribed by the Court and the Judicial
9	Conference of the United States.
10	This 22nd day of March 2022.
11	
12	s/ Zoie M. Williams s/ Kelli Ann Willis
13	Official Court Reporters The Northern District of Texas
14	Fort Worth/Dallas Divisions
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