

United States Coast Guard  
Marine Board Investigation  
Commercial Fishing Vessel Destination Casualty  
FORMAL HEARING

Henry M. Jackson Federal Building

915 Second Avenue

Seattle, Washington 98174

August 7, 2017 -- August 17, 2017

REPORTER'S OFFICIAL TRANSCRIPT OF PROCEEDINGS

VOLUME IX of IX

DATE TAKEN: Thursday, August 17, 2017

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REPORTED BY:  
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1 preventing similar casualties. Whether there is  
2 evidence that any act of misconduct, inattention to  
3 duty, negligence, or willful violation of law on the  
4 part of any licensed or certificated person contributed  
5 to the casualty. And whether there is evidence that  
6 any Coast Guard personnel, or any representative, or  
7 employee of any other government agency or any other  
8 person caused or contributed to the casualty.

9           This Marine Board is planned for at least one  
10 hearing session. The purpose of this hearing is to  
11 collect factual information. The Marine Board will use  
12 the factual information when developing its report of  
13 findings, conclusions and recommendations.

14           I had previously determined that the  
15 following individual is a Party-in-Interest to this  
16 investigation. Mr. David Wilson represented by Ms.  
17 Spivak of Holmes, Weddle & Barcott. This party has a  
18 direct interest in the investigation, and has  
19 demonstrated the potential for contributing  
20 significantly or otherwise enhancing the safety of life  
21 and property at sea, through their participation as a  
22 Party-in-Interest.

23           All Parties-in-Interest have a statutory  
24 right to employ counsel to represent them, to cross-  
25 examine witnesses, and to have witnesses called on

1 their behalf.

2 I will examine witnesses at this formal  
3 hearing under oath or affirmation and witnesses will be  
4 subject to federal laws and penalties governing false  
5 official statements. Witnesses who are not Parties-in-  
6 Interest may be advised by their counsel concerning  
7 their rights, however, such counsel may not examine or  
8 cross-examine other witnesses or otherwise participate.

9 These proceedings are open to the public and  
10 to the media. I ask for the cooperation of all persons  
11 present to minimize any disruptive influence on the  
12 proceedings in general, and on the witnesses in  
13 particular. Please turn your cell phones and other  
14 electronic devices off or to silent or vibrate mode.  
15 Please do not enter or depart the hearing room except  
16 during periods of recess. Flash photography will be  
17 permitted during this opening statement and during  
18 recess periods.

19 The members of the press are, of course,  
20 welcome. An area has been set aside for your use  
21 during the proceedings. The news media may question  
22 witnesses concerning the testimony they have provided  
23 here, but only after I have released them from these  
24 proceedings. I ask that any such interviews be  
25 conducted outside this room.



1           Since the date of the casualty, the NTSB and  
2 Coast Guard have conducted substantial evidence  
3 collection activities. And some of that previously  
4 collected evidence will be considered during these  
5 hearings. Should any person have or believe he or she  
6 has information not brought forward, but which might be  
7 of direct significance, that person is urged to bring  
8 that information to my attention by emailing,  
9 FVDestination@USCG.mil.

10           The Coast Guard relies on strong partnerships  
11 to execute its missions, and this Marine Board  
12 Investigation is no exception. The National  
13 Transportation Safety Board provided a representative  
14 for this hearing Mr. Michael Karr is the Investigator-  
15 in-Charge of the NTSB investigation. Mr. Karr, would  
16 you like to make a brief statement?

17           MR. KARR: Good morning. I am Michael Karr.  
18 I am the Investigator-in-Charge for the National  
19 Transportation Safety Board for the investigation of  
20 this accident. The NTSB has joined this hearing to  
21 avoid duplicating the development of facts. I do wish  
22 to point out that this does not preclude the NTSB from  
23 developing additional information separately from this  
24 proceeding if that becomes necessary.

25           At the conclusion of this hearing the NTSB

1 will analyze the facts of this accident and determine  
2 the probable cause, and we will do that independent of  
3 the Coast Guard.

4 We will issue a report of the NTSB findings,  
5 and if appropriate, the NTSB will issue recommendations  
6 to correct safety problems that we have identified  
7 during this investigation. Thank you.

8 CDR MULLER: Thank you Mr. Karr. We will now  
9 call our first witnesses of the day, Mr. Farrell and  
10 Mr. Mayer. Mr. Farrell and Mr. Mayer are you there on  
11 the phone?

12 WITNESSES: Yes.

13 CDR MULLER: Can you hear me clearly?

14 WITNESSES: Yes, sir.

15 CDR MULLER: Okay. And you are coming in  
16 fine. Before we begin with administering the oath, and  
17 with your presentation, and some questions I just want  
18 to give you some awareness, because you are joining us  
19 telephonically, some awareness of who we have here,  
20 present in the room.

21 We have myself, the chair of the Marine  
22 Board, and other members including Mr. Jim Gillette,  
23 and LCDR Mendoza. Of course, you also just heard from  
24 the NTSB, Mr. Mike Karr. We also have in the room the  
25 representative for the Party-in-Interest.

1           This is a public hearing and it is being  
2 recorded. Also be advised that we have a number of  
3 individuals here from the public including friends and  
4 family of the crew of the fishing vessel Destination.

5           I understand you are calling from Juneau,  
6 Alaska.

7           THE WITNESSES: Yes.

8           CDR MULLER: Are you in a place where you can  
9 answer our questions?

10          THE WITNESSES: Yes, we are.

11          CDR MULLER: Thank you. LCDR Mendoza, if you  
12 would, please administer the oath.

13          LCDR MENDOZA: Sir please stand and raise your  
14 right hand.

15                           **EDWIN V MAYER, III**

16                           **WES PATRICK FARRELL**

17                           **MARINE EXCHANGE OF ALASKA**

18           A witness produced on call of the Coast Guard  
19 was duly sworn according to the law, was examined and  
20 testified as follows:

21          THE WITNESS/MR. FARRELL: This is Wes Farrell,  
22 and I do.

23          THE WITNESS/MR. MAYER: This is Ed Mayer, and  
24 I do, yes.

25          LCDR MENDOZA: Please be seated. Mr. Farrell,

1 could you please state your full name and spell your  
2 last name for the record?

3 THE WITNESS/MR. FARRELL: Wes Patrick Farrell,  
4 F-A-R-R-E-L-L.

5 LCDR MENDOZA: Mr. Mayer, please state your  
6 full name and spell your last name for the record.

7 THE WITNESS/MR. MAYER: Okay, Edwin, middle  
8 initial V as in Victor, last name Mayer, M-A-Y-E-R, III,  
9 Edwin V. Mayer, III.

10 LCDR MENDOZA: Mr. Farrell, could you please  
11 state your current employment and position title.

12 THE WITNESS/MR. FARRELL: Marine Exchange of  
13 Alaska, and my position is the Assistant Director.

14 LCDR MENDOZA: Mr. Mayer, would you please  
15 state your current employment and position title?

16 THE WITNESS/MR. MAYER: Currently employed  
17 with the Marine Exchange of Alaska, my title is  
18 technology.

19 LCDR MENDOZA: Mr. Farrell, do you hold any  
20 professional licenses or certificates?

21 THE WITNESS/MR. FARRELL: Not at the moment  
22 that are relevant to this case.

23 LCDR MENDOZA: Mr. Mayer, do you hold any  
24 professional licenses or certificates?

25 THE WITNESS/MR. MAYER: No professional

1 licenses, I just hold a Bachelor's Degree in Engineering  
2 Technology.

3 LCDR MENDOZA: Thank you both.

4 CDR MULLER: Gentlemen, we will now turn to  
5 Mr. Giard, who will initiate some of the questions that  
6 we have for you this morning.

7 **EXAMINATION**

8 BY MR. GIARD:

9 Q. Good morning Mr. Farrell, and Mr. Mayer, my  
10 name is Scott Giard and I am with the Coast Guard's  
11 Thirteenth District Incident Management Division, here  
12 in Seattle, Washington.

13 During your testimony please speak up and into  
14 the phone, and identify yourself so the Board and court  
15 reporter can hear and record you.

16 In the course of your testimony please let me  
17 know if you need any clarification or need me to re-word  
18 any line of questioning. As well, please let me know if  
19 at any time you need for any reason a recess.

20 Let's start with Mr. Farrell. Can you please  
21 tell the Marine Board, how long you have been with the  
22 Marine Exchange of Alaska, and what your capacity is  
23 there?

24 A. MR. FARRELL: I am the Assistant Director and  
25 I have been here since April of 2006, upon retiring from

1 the Coast Guard.

2 Q. And how long were you with the Coast Guard?

3 A. MR. FARRELL: Just shy of twenty-two years.

4 Q. Thank you, Mr. Mayer same question.

5 A. MR. MAYER: I have been with the Marine  
6 Exchange since 2010. And prior to that with Marine  
7 Electronics Service Company of Miami, Florida for  
8 fifteen years, approximately, since 1995. And I worked  
9 as a marine electronics technician prior to the Marine  
10 Exchange. And with the Marine Exchange as an  
11 engineering technologist, working on various equipment  
12 related to AIS, and also a (inaudible word)  
13 administration.

14 Q. Thank you. Mr. Farrell, can you tell us a  
15 little bit about the vessel trafficking or vessel  
16 tracking services that the Marine Exchange of Alaska  
17 provides?

18 A. MR. FARRELL: We have established an AIS,  
19 Automatic Identification System tracking network  
20 throughout Alaska, consisting of approximately 130  
21 terrestrial based AIS receivers, meaning land-based  
22 receivers.

23 We back all the position reports those  
24 receivers collect to equipment here in Juneau and also a  
25 secondary server down in the Seattle area that -- we can

1 basically we have approximately 130 receivers throughout  
2 Alaska collecting vessel traffic information via AIS and  
3 the services that we provide.

4           We provide that data to our customers either  
5 via a real-time web-based display that they can log into  
6 and track vessels themselves in real-time, or we store  
7 every position report that we receive in a database for  
8 this type, more of this type of a scenario where people  
9 need data from the past to go back and see what happened  
10 in the past.

11           Q.    Thank you.  Mr. Mayer can you please describe  
12 how the Automatic Identification System or AIS works?

13           A.    MR. MAYER:  Briefly what it is, it is a VHF-  
14 based system that all vessels are required to carry.  
15 There are some exceptions.

16                    But for the most part vessels that are  
17 equipped have this VHS radio system that communicates  
18 its relevant navigation information, such as its  
19 position, its course and speed over a VHF communications  
20 link between vessels.  So it is a vessel to vessel  
21 system, and also vessel to shore.  It does that, but  
22 technician power is about 12.5 watts.  So it has a VHF  
23 land sat range of approximately 25 miles on average.

24                    And the system is a time position based  
25 system, so it can -- it has a limited capacity of what

1 it can do (inaudible few words) the internet today. For  
2 small amounts of data it transmits on intervals  
3 depending on the vessel's speed. It is somewhat limited  
4 in bandwidth. But the data that we collect, basically a  
5 range of intervals of anywhere from a minute to down to  
6 a few seconds.

7 Q. Great, thank you. You mentioned that the  
8 Marine Exchange operates approximately 130 sites. Do  
9 you know if the Coast Guard or others operate AIS sites  
10 in Alaska? And approximately how many?

11 A. MR. FARRELL: This is Brett Farrell, I don't  
12 know, I can't answer how many the Coast Guard has, other  
13 than in the BTS (sounds like) area and Prince William  
14 Sound, the vessel traffic system in Prince William  
15 Sound, I know they have some there. And I am not sure  
16 if they have any other sites.

17 As far as other parties, there are some other  
18 third-parties that do have scattered receivers  
19 throughout Alaska, nothing too significant. And I don't  
20 think any in the area of interest for this vessel; I  
21 don't think there were any other third-party receivers  
22 up there. In fact, Coast Guard or third-parties, I am  
23 fairly confident there was nothing else up in that area.

24 Q. Can you tell us if or how other customers,  
25 like the Coast Guard, use your data?



1           A.   MR. FARRELL: My impression of how -- I'll  
2 start with -- this is Brett Farrell again -- starting  
3 with the Coast Guard, they use it in multiple ways that  
4 I am aware of. One is we, we provide the Coast Guard  
5 with what we call a raw feed.

6                   In other words, they are getting the feeds  
7 directly from our radios through our servers, and they  
8 get sent directly to the Coast Guard. And I know one  
9 use of that is for -- and some of this terminology may  
10 have changed over the years -- but I am under the  
11 impression that our feeds are populating the Coast  
12 Guard's Common Operational Picture display system for  
13 various command centers.

14                   In other words, again, my impression is that  
15 they can look at their screen not have to use our web-  
16 based viewer to see current vessel traffic, or vessel  
17 positions. They receive the same feed that we collect  
18 on the -- our web-based viewer, uses the display vessel  
19 positions. That's one use that I -- that I am aware of.

20                   The Coast Guard also has access to our web-  
21 based display system as well. I don't know that it  
22 shows anything that their Common Operational Picture  
23 shows or not, because I assume those, that comm has  
24 other inputs to do it as well.

25                   So that's my impression of what the Coast

1 Guard is doing with it. And the, I assume they are  
2 using it for search and rescue purposes, or analysis.  
3 We occasionally get calls like which lead to this,  
4 asking for historical data. It seems like; sometimes it  
5 is easier for us to pull historical data directly from  
6 our database, than it is to get it out of wherever the  
7 Coast Guard stores it.

8           So we do get occasional calls from the Coast  
9 Guard regarding historical data, not only for incidents  
10 such as this, but just for general traffic analysis,  
11 port studies and things like that.

12           Third parties, other parties that use it other  
13 than Coast Guard, we charge -- make up our client base.  
14 Would be the maritime industry, basically the companies  
15 or the individuals that own vessels, that want to keep  
16 an eye on -- you know, track their vessels.

17           Other regulatory agencies use it for  
18 regulatory purposes. And I guess that's about it.  
19 There is, we don't really market it, or provide it to  
20 hobbyists, or anything like that that just like watching  
21 vessel traffic on a computer. It is either industry or  
22 regulatory agencies, Coast Guard.

23           Q. Great, thank you very much. Can you briefly  
24 describe the difference between terrestrial AIS and  
25 satellite AIS?

1           A.    MR. FARRELL:  If it is okay with you, I will  
2 defer that to Ed Mayer, he would give a much better  
3 description, I think, of that, other than the obvious.  
4 But would that be okay if I deferred that to Ed Mayer?

5           Q.    Yes, thank you.

6           A.    MR. MAYER:  The difference is really the  
7 reference to how the signals are received.  All AIS is,  
8 are transmitted by vessels, or by shore (inaudible  
9 word).  We use the term terrestrial to indicate that we  
10 received the signal or a transmission from a vessel with  
11 a receiver that is based on land.

12                   And a satellite reference would mean that the  
13 transmission from the vessel was picked up by a  
14 satellite that was passing by and then routed it over  
15 the internet back to our servers.

16           Q.    Great, thank you.  Does the Marine Exchange of  
17 Alaska actively monitor vessel tracks?

18           A.    MR. FARRELL:  This is Brett Farrell.  In some  
19 cases we do actively monitor vessel traffic, primarily  
20 in the -- on the great circle around the vicinity of the  
21 Aleutian Islands, and primarily large commercial  
22 vessels.

23                   Very recently there has been routing measures  
24 implemented for an alternative planning criteria program  
25 where we have a contract to monitor certain vessels that

1 are enrolled in the program. So, that's the extent of  
2 our active monitoring.

3           Granted, we are -- we have a twenty-four hour  
4 operation center with watchstanders that are looking at  
5 screens all the time. So we occasionally spot anomalies  
6 and strange things. But in most cases, we are not in a  
7 role to actively monitor, with the exception of those  
8 commercial vessels that I just talked about that are  
9 enrolled in a specific alternative planning criteria  
10 program.

11           Q. Thank you. You briefly described instances of  
12 the Coast Guard calling to consult on getting historical  
13 data analysis. Did the Coast Guard consult with the  
14 Marine Exchange of Alaska on the case involving the  
15 sinking of the fishing vessel Destination in February  
16 2017?

17           A. MR. FARRELL: This is Brett Farrell. Yes, I  
18 don't recall any exact dates, and my recollection is  
19 that it was Scott Wilmer with the Seventeenth District  
20 Commercial Fishing Vessel Program. And I, and my  
21 recollection is he called and asked if we had any data  
22 showing, he gave me a timeframe and if we had data. And  
23 it sounded like it was a very preliminary part of the  
24 investigation, right at the -- I don't even know if it  
25 could be considered part of the investigation, maybe it

1 was. But, it seemed like it was really early on.

2           And we ran a quick historical replay of, you  
3 know, based on the date and time that we were given, and  
4 that's basically what led to the animation that  
5 apparently you have in front of you, or that you will be  
6 showing. That four minute block of historical data  
7 that is animated to kind of show what we saw, or what  
8 our system collected in about a four minute timeframe  
9 around the date that Scott asked for.

10           Q. Thank you. I would like to now present  
11 Exhibit 16. Exhibit No. 16 is a video provided by the  
12 Marine Exchange of Alaska of the last four minutes of  
13 AIS data from the fishing vessel Destination on the 11<sup>th</sup>  
14 of February, 2017.

15           I'd like to watch the video in its entirety and  
16 then ask a few questions about it.

17           (Playing AIS simulation video in open court 9:26 -  
18 9:27:13.)

19           Q. Okay, now watched the video in its entirety,  
20 it is approximately one minute long, and shows the last  
21 four minutes. Would you say that the vessel, the video  
22 is sped up by four times?

23           A. MR. FARRELL: This is Brett Farrell. I would  
24 agree with that, it is compressed.

25           Q. Okay. And can you just briefly describe, just

1 in general what we are seeing in the video.

2 A. MR. FARRELL: This is Brett Farrell. What you  
3 are seeing is on that track line that appears in the  
4 video you will see those little dots along the track  
5 line, each one of those dots represents a specific  
6 position report we received from the vessel.

7 And then the system is rendering, based on  
8 those -- each of those position reports contains quite a  
9 bit of information, it's not just a position. It  
10 contains force over ground, speed over ground, heading,  
11 and various other information.

12 So what the -- what you are seeing is the  
13 system taking all of the information that it received at  
14 each one of those points along the track line. And  
15 displaying the, basically, the shape of the vessel is  
16 based on the dimensions that it, that it was  
17 transmitting, or the measurements, it is a little more  
18 complicated than that.

19 But the vessel transmits the information that  
20 the system can use to calculate its dimensions, which is  
21 how it basically draws that polygon shape that is  
22 hopefully, proportional to the vessel's actual  
23 dimensions. I say hopefully, because sometimes it  
24 relies on whoever installed the system to get those  
25 dimensions transmitted correctly. But this one looks

1 pretty -- I don't see any problems with this one. So it  
2 looks like it was probably programmed correctly.

3 But anyway, the -- this entire video is just  
4 the -- an animated version of the system using the data  
5 that the vessel has transmitted at each one of those  
6 points and displaying it on the screen as to the actual  
7 orientation and movement of the vessel based on the  
8 information that was received at each of those points.

9 Q. Great, thank you. Can you tell us what you  
10 think is happening after the vessel starts making the  
11 starboard turn, just after the first, kind of three data  
12 points, and then starts to turn even harder to  
13 starboard?

14 A. MR. FARRELL: Obviously, I can't tell you  
15 exactly what's happening other than in this last four  
16 minutes, I guess maybe an easier way to answer this  
17 would be I have data in front of me the last hour  
18 leading up to this four minutes. And until  
19 approximately six o'clock in the morning, the vessel  
20 appeared to be on a fairly steady heading, and fairly  
21 steady speed, and course.

22 And it is about where this video starts,  
23 actually, about six o'clock in the morning, the -- we  
24 start seeing reduction in speed. But course and heading  
25 still remained fairly steady as it had been over the

1 past hour.

2 But, where this video starts, is where we  
3 start seeing more drastic changes in heading, and in  
4 course, at the early part of this video. And then at  
5 some point when you see the vessel start to, basically,  
6 rotate to the right, or to starboard if you look at the  
7 actual data on this, it would show you exactly what you  
8 were seeing on the screen. Is that at that point, the  
9 course and the heading start separating from each other.

10 Whereas normally, you know, there's always --  
11 there is always set and drift where the course and  
12 heading are rarely identical to each other. But, at the  
13 point on this video where the vessel starts turning, it  
14 is kind of maintaining a course, a northerly course.  
15 But its heading starts separating from the course.

16 Meaning the vessel is rotating, or turning on  
17 its axis, or you know, the heading is separating from  
18 the course. Meaning the vessel's, the overall direction  
19 of the vessel is going one direction, while the bow of  
20 the vessel is starting to go a different direction.

21 I guess that's the best I can answer on that.  
22 I don't, obviously, I have no idea what was causing that  
23 but that's what it was transmitting, that the heading  
24 started separating from the course. Meaning the vessel  
25 was turning.



1           And as you can, hopefully, see in the video it  
2 was, you know, it was fairly quick, but you could see  
3 the speed was reducing throughout the duration of that  
4 video. So the vessel was getting slower and slower, and  
5 rotating at the same time. Still kind of maintaining a  
6 northerly course though, regardless of which direction  
7 the vessel was actually heading, the vessel itself was,  
8 still had some northward movement.

9           Q. Great, thank you very much. Can you speak to  
10 -- so the red dot on the screen says in the key, lost  
11 signal, when an AIS signal is lost, can you just tell us  
12 a few examples of why that might happen?

13           A. MR. FARRELL: This is Brett Farrell. We have  
14 no idea at this end -- in this case, the last position  
15 we received was that, it was time-stamped as 061404  
16 Alaska local time, and that was just -- it is really,  
17 for us it is as simple as that. That's where our  
18 database ends, that's the last position report we  
19 received.

20           Q. Thank you. Mr. Farrell and Mr. Mayer, those  
21 are all the questions that I have.

22           MR. GIARD: Commander Muller, I have no  
23 further questions.

24           CDR MULLER: Thank you Mr. Giard. Mr.  
25 Farrell, Mr. Mayer, this is Commander Muller, I have one

1 or two follow-up questions.

2 **EXAMINATION**

3 BY CDR MULLER:

4 Q. Can you briefly describe -- well let me ask it  
5 this way, earlier you mentioned that AIS is essentially  
6 a transponder system that transmits, I think vital, or  
7 critical, or established navigation information such as  
8 course, heading, speed, position.

9 So, is that information coming from the  
10 antenna itself, or from other equipment on board the  
11 vessel, like the GPS?

12 A. MR. MAYER: This is Ed Mayer. The actual VHF  
13 transmission occurs, of course is a RF radio frequency  
14 transmission from an antenna, that helps radiate that  
15 energy from the radio or the transponder. But the  
16 transponder is dependent upon external equipment that is  
17 connected to it. Meaning, the vessel's GPS is really  
18 the primary piece of equipment.

19 That the AIS needs, it is where the position  
20 information comes from, that's fed into this transponder  
21 system. And there is (inaudible word) sensors can also  
22 be connected. The next most important is typically the  
23 headings sensor, which can either be a gyro-compass or a  
24 (inaudible word) magnetic type compass.

25 Typically on a smaller vessel you might have a

1 magnetic compass, I'm not sure what this vessel had. We  
2 cannot tell by the data what type of compass was on  
3 board. We just see them giving rough heading  
4 information we received. So, I think that information  
5 definitely came from an external (inaudible word).

6           There really aren't any indications that there  
7 is a rig turn (sounds like) indicator connected. But  
8 that's another type of sensor that would be external to  
9 the actual AIS. And also a speed sensor can also be  
10 connected. That's it usually, for external sensors,  
11 that would be it for those.

12           Q.    Okay, thank you. So I, understanding that --  
13 so when an AIS stops transmitting, so understanding that  
14 the data that AIS is transmitting could -- comes from  
15 external sensors -- so would it be difficult to answer  
16 why the AIS stopped transmitting? It -- in other words  
17 it is, it may not just be as simple that, let's say the  
18 transmitter antenna dipped, you know, below the water  
19 surface, or could it also be from a power outage to the  
20 equipment?

21           A.    MR. MAYER: This is Ed Mayer. Yes, the  
22 transponder, or system would continue to transmit as  
23 long as the antenna was in free open air and that it had  
24 power, and connection to all of its sensors. If it were  
25 to lose power it would stop transmitting a signal. If

1 the antenna was broken off, or the cable was broken  
2 going to the antenna it would stop transmitting. Those  
3 are the only things really that can cause us to not  
4 receive the signal.

5 Q. Thank you. That's all the questions I have.

6 CDR MULLER: Mr. Gillette?

7 MR. GILLETTE: Commander I have no follow-up  
8 questions.

9 CDR MULLER: Thank you. Mr. Karr, NTSB?

10 **EXAMINATION**

11 BY MR. KARR:

12 Q. Mr. Farrell this is Michael Karr of the NTSB.

13 A. MR. FARRELL: Good morning.

14 Q. Does your AIS coverage cover all of the Bering  
15 Sea?

16 A. MR. FARRELL: Terrestrial coverage doesn't,  
17 like Mr. Mayer said the -- we are bound by the laws of  
18 VHF. He mentioned that, you know, generally you would  
19 expect VHF line of sight to be approximately twenty-five  
20 miles. We seem to exceed that rule from time to time  
21 based on the atmosphere, height of antennas, and height  
22 of antenna on both the vessel and the -- and our  
23 receivers.

24 So, to answer your question, no we do not have  
25 terrestrial coverage of the entire Bering Sea. In this

1 case we do have, I believe, two receivers on St. George  
2 Island to the proximity of this vessel to St. George  
3 Island, I am comfortable that we absolutely have  
4 reliable, full coverage where it appears this incident  
5 took place. I don't think we missed much, if any,  
6 position reports.

7 Q. How about satellite coverage, do you have  
8 satellite coverage in the Bering Sea more than twenty-  
9 five miles away from the islands?

10 A. MR. FARRELL: This is Brett Farrell. Yes, we  
11 do, we have access to a third-party satellite AIS  
12 system. As far as what we have available to us using  
13 that third-party, it basically covers from the  
14 Washington/Oregon border all the way to throughout the  
15 Arctic, and all the way over to Asia.

16 So if you can kind of visualize that type of  
17 an area. And there are no limitations from shore on  
18 that, it is full coverage. It is just the -- the only -  
19 - the difference is is that we, to date, we don't see  
20 the same type of resolution as far as the number of  
21 position reports that we received from the vessels is  
22 less using satellite receivers than it is with the  
23 terrestrial receivers.

24 And that's, Mr. Mayer, his earlier testimony  
25 kind of addressed why that is. We have to wait for the

1 satellite to pass, we have to wait for the satellite to  
2 get within view of an earth station. There is some  
3 built-in latency on the satellites at the moment,  
4 anyway.

5 Q. And how many watchstanders do you have?

6 A. MR. FARRELL: We have --

7 Q. For each?

8 A. MR. FARRELL: -- three watchstanders on staff  
9 at any given time. One is always -- we have one person  
10 always, twenty-four hours a day on watch, and two during  
11 the day.

12 Q. Is one considered a supervisor?

13 A. MR. FARRELL: During the day, yes.

14 Q. And currently do you have any working  
15 relationships for providing these services to the crab  
16 boat fleet?

17 A. MR. FARRELL: We provide services to various  
18 fishing fleets, various fishing companies, many of which  
19 are crabbers. But yes, we provide vessels -- when I  
20 spoke earlier about some of our products as far as our  
21 web-based display, they are -- we have several fishing  
22 companies as clients that access and track their vessels  
23 using our display and our -- and in those cases, and in  
24 many cases, we are able to incorporate their Vessel  
25 Monitoring System or VMS.

1           Which is a completely separate tracking  
2 system, satellite based, and it is a requirement for  
3 certain fisheries by the National Marine Fishery  
4 Service, or NOAA. And we are able, for the -- many of  
5 the fishing company clients that we have, when they get  
6 our web-based display, we are able to incorporate their  
7 VMS reports into our display as well.

8           So they get kind of a hybrid system. They get  
9 to -- they will see their vessel whether it is being  
10 picked up by one of our terrestrial receivers via their  
11 AIS unit, and/or if they are out at sea and beyond our  
12 terrestrial range, their VMS position reports will show  
13 on their screen. And in some cases they will subscribe  
14 to the satellite feed as well. To where then, even when  
15 they are beyond range of our terrestrial coverage, the  
16 satellite will pick up their AIS position reports and  
17 display them as well.

18           Q. Thank you Mr. Farrell.

19           CDR MULLER: Thank you Mr. Karr. Ms. Spivak  
20 do you have any follow-up questions?

21           MS. SPIVAK: No questions, thank you.

22           CDR MULLER: Thank you. Well thank you Mr.  
23 Farrell, Mr. Mayer this is Commander Muller. That  
24 concludes the questions that we have for you this  
25 morning. Before I release you as a witness, are there

1 any other elements that you think the Board should  
2 consider? Perhaps issues that we did not raise this  
3 morning?

4 MR. FARRELL: I think one recommendation I've  
5 had is, if you don't have it available to you from other  
6 sources, primarily meaning Coast Guard, we'd be happy to  
7 provide the actual data, because I don't recall  
8 providing that. I think all I provided so far to the  
9 Coast Guard was the video that you saw, which is the  
10 animation of actual data.

11 So, I think it would be helpful if you had the  
12 actual data in front of you. I think it helps paint the  
13 picture. Especially going back and seeing, you know,  
14 prior to that last four minutes. And we would be happy  
15 to work with the Board on that, providing whatever  
16 information to help fill any gaps that you might have.

17 CDR MULLER: Thank you Mr. Farrell, this is  
18 Commander Muller, yes actually we have that data. It is  
19 about four spreadsheets long of data. I think it was,  
20 if memory serves, starting from around the 7<sup>th</sup> or 8<sup>th</sup> of  
21 February. Starting from Sand Point, King's Cove, to  
22 Dutch Harbor, and eventually to St. George. I don't  
23 recall exactly how I obtained that. I think it was via  
24 email through some of our initial investigative efforts  
25 conducted by Sector Anchorage.



1           MR. FARRELL: And that rings a bell now when  
2 you mention Sand Point that rings a bell -- we may very  
3 well have provided that. I, unfortunately I have been  
4 having some email archive issues lately, and I went back  
5 in preparation for this to see what I actually sent the  
6 Coast Guard back in February. And couldn't determine  
7 that.

8           So that now, that does kind of ring a bell.  
9 So we may have already provided it. That sounds like we  
10 probably did already provide that data. So that's good.

11           CDR MULLER: Yes, concur.

12           MR. FARRELL: But we can have -- provide, as  
13 the investigation continues, any follow-up questions,  
14 additional data we would be happy to provide it or  
15 answer any questions in the future.

16           CDR MULLER: Thank you, sir. Anything  
17 further?

18           MR. FARRELL: Just on behalf of the Marine  
19 Exchange, we would like to express our condolences to  
20 the family and friends of the Destination, and we wish  
21 the Board luck, in hopefully determining what happened.

22           CDR MULLER: Thank you. You are now released  
23 as a witness to this Marine Board Investigation, thank  
24 you for your testimony and cooperation. If I later  
25 determine that this Board needs additional information

1 from you we will contact you.

2 If you have any questions, regarding this  
3 investigation, please feel free to contact the Marine  
4 Board Recorder, LCDR Pedro Mendoza.

5 MR. FARRELL: Will do, thank you.

6 CDR MULLER: Thank you. Good day now.

7 MR. FARRELL: Good day.

8 CDR MULLER: We will now take a fifteen minute  
9 recess.

10 (Whereupon a short recess was taken.)

11 CDR MULLER: Good morning again. Good  
12 morning, this hearing will come to order. We would like  
13 to call our next witness Commander Van Waes. LDCR  
14 Mendoza, if you would, please administer the oath.

15 LCDR MENDOZA: Please stand and raise your  
16 right hand.

17 **WITNESS**

18 **COMMANDER MARK VAN WAES**

19 **NATIONAL OCEANIC & ATMOSPHERIC ASSOCIATION**

20 A witness produced on call of the Coast Guard  
21 was duly sworn according to the law, was examined and  
22 testified as follows:

23 THE WITNESS: I do.

24 LCDR MENDOZA: Please be seated. Please if  
25 you could please state your full name, rank, and spell

1 your last name for the record.

2 THE WITNESS: Certainly, it is Commander Mark  
3 Van Waes, V-A-N W-A-E-S.

4 LCDR MENDOZA: Could you please state your  
5 current employment and position title.

6 THE WITNESS: I am currently employed with  
7 NOAA, the National Oceanic and Atmospheric  
8 Administration. I am a commander in the NOAA Commission  
9 Corps. I am the Commanding Officer of the NOAA ship,  
10 Fairweather.

11 LCDR MENDOZA: Sir, do you hold any  
12 professional licenses or certificates?

13 THE WITNESS: None that are germane to this  
14 proceeding.

15 LCDR MENDOZA: Thank you sir.

16 CDR MULLER: So good morning Commander. On  
17 behalf of the Coast Guard, and particularly this Marine  
18 Board I want to just take a quick opportunity to thank  
19 NOAA, and in particular the NOAA ships Oscar Dyson, and  
20 your vessel the Fairweather in their support and  
21 efforts, contributions to this investigation.

22 So several months ago I reached out to NOAA  
23 and they gracefully accepted our request to, for NOAA to  
24 arrive on the last known position on the fishing vessel  
25 Destination and conduct survey work to help locate the

1 vessel. So, again, thank you.

2 So with that, I understand you have a  
3 PowerPoint presentation.

4 THE WITNESS: Yes, I do.

5 **PRESENTATION**

6 BY COMMANDER VAN WAES:

7 Morning ladies and gentlemen, again I am  
8 Commander Mark Van Waes, the Commanding Officer of the  
9 NOAA Ship Fairweather. I will be briefing the work that  
10 we conducted, that NOAA conducted in response to the  
11 request from the Coast Guard to investigate the  
12 disappearance of the fishing vessel Destination.

13 I would like to start briefly with an overview  
14 of NOAA as an agency. The National Oceanic and  
15 Atmospheric Administration is a science based agency  
16 under the Department of Commerce, dedicated to studying  
17 preserving, and stewarding the nation's oceans, coasts,  
18 and skies.

19 Indeed, NOAA's mission spans from the surface  
20 of the sun to the depths of the ocean. NOAA generates  
21 tremendous value for the nation and the world by  
22 advancing our understanding of, and ability to  
23 anticipate changes in the earth's environment, by  
24 improving society's ability to make scientifically  
25 informed decisions, and by conserving and managing

1 ocean, coastal, and Great Lakes resources.

2 NOAA is composed of six line offices and a  
3 number of staff offices. The -- each office contributes  
4 to the overall mission of NOAA. For the purposes of  
5 this discussion, the Office of Marine and Aviation  
6 Operations is the office, the line office for NOAA that  
7 worked most closely with the Coast Guard and which we  
8 will be focusing on.

9 NOAA's Office of Marine and Aviation  
10 Operations, operates and maintains NOAA's fleet of  
11 research ships and aircraft. We provide platforms and  
12 expertise for the acquisition of environmental  
13 information vital to the ongoing prosperity and security  
14 of the nation.

15 NOAA has sixteen research ships that conduct  
16 various types of research in our coastal and ocean  
17 waters, from oceanographic data, marine mammal  
18 assessments, fisheries assessments, sea floor mapping  
19 activities, and other work.

20 NOAA's nine specialized aircraft collect data  
21 that help study climate change, assess marine mammal  
22 populations, survey coastal erosion, investigate oil  
23 spills, respond to and study hurricanes and improving  
24 winter weather forecasts.

25 Platforms are located all around the country.

1 AMAO's Marine Operation's Headquarters is based in  
2 Newport, Oregon though our ships are stationed on all of  
3 our coasts. And the aircraft operations center is based  
4 in Lakeland, Florida.

5 NOAA and the Coast Guard have a long history  
6 of close partnership. We have worked together for  
7 hundreds of years, actually, with our predecessor  
8 agencies, to ensure the nation's maritime resiliency,  
9 environmental sustainability, and environmental  
10 research.

11 We work together closely on such topics as oil  
12 spill response, and marine debris removal, safety of  
13 navigation, scientific data acquisition, maritime domain  
14 awareness, and joint training. In fact, the officers of  
15 the NOAA Corps, the Commission Corps of NOAA trained  
16 with the officer candidates at the Coast Guard Officer  
17 Candidate School, at the Coast Guard Academy.

18 This training has already, though it is only a  
19 few years since that began, it has already boosted our  
20 partnership with improved knowledge and understanding  
21 between the two services.

22 Per the Coast Guard request in March 2017,  
23 OMAO offered the services of two ships, the Oscar Dyson  
24 and the Fairweather in locating the Destination.

25 NOAA's actually assisted many times in the

1 past with searches for missing vessels and aircraft  
2 including among others the location of John F. Kennedy,  
3 Jr.'s plane and the wreckage of the TWA 800 flight.

4           To begin with, I'd like to, as far as talking  
5 about NOAA's search effort, I'd like to discuss the  
6 technology that we used in broad strokes, I'll try not  
7 to get too technical. But please ask if there are any  
8 questions about the technology please feel free to ask.  
9 Our primary method of acquiring data is called multibeam  
10 sonar. It ensonifies a swath of the sea floor, and  
11 depending on the frequency of the sonar system, and the  
12 depth of the water, and other considerations, it can  
13 resolve objects that can be as small as a meter or less.

14           Generally speaking, the procedure is to, what  
15 we call, mow the lawn where we systematically make  
16 passes with overlapping data to ensure full coverage of  
17 the sea floor area that it being investigated.

18           This video just gives a visualization of how  
19 the ship proceeds along on its track line ensonifying  
20 the sea floor and recording the data. As you can see  
21 here, the deeper areas are the dark, generally speaking  
22 the darker colors, whereas, the red areas are the more  
23 shallow depths.

24           From this multibeam sonar data we generate a  
25 3D model of the sea floor. Wrecks and obstructions,

1 other objects can be detected and examined as we process  
2 the data once it has been brought back on board. This  
3 image here, is an example of what a wreck might look  
4 like on the bottom. It is not always immediately  
5 discernable as a vessel depending on the status of the  
6 vessel. But it is usually, does usually stand out from  
7 natural features.

8           Additionally we may use what's called Sidescan  
9 Sonar. And this is a system that provides imagery, but  
10 not really depth data for the bottom. It uses sonar  
11 similar to the multibeam in that it sends out a sound  
12 pulse through the water and measures the return. But  
13 what it is primarily doing is looking further off to the  
14 side, getting a wider swath of coverage, and allowing us  
15 to see if there is something rising from the sea floor.

16           We can determine the size and height of  
17 objects from the data, the image on the screen here is  
18 an example of what a wreck might look like. In fact,  
19 this, I believe, is the wreck of the Monitor.

20           As previously mentioned, NOAA offered the use  
21 of two of its vessels to search for the Destination.  
22 The NOAA ship Oscar Dyson is a fisheries research vessel  
23 based in Kodiak, Alaska. Its primary mission is to  
24 conduct fisheries research, stock assessments, habitat  
25 mapping for our sustainable fisheries work. It is set



1 up to trawl, catch fish to examine -- to do the  
2 assessments, as well as to do acoustic fisheries  
3 research.

4           Onboard the ship they have two echosounders a  
5 Simrad ME70 multibeam echosounder which is similar to  
6 those that are used for sea floor mapping, but somewhat  
7 different. And a Simrad EK60 echosounder.

8           In the course of this investigation the ME70  
9 echosounder was the one that was used. And these  
10 echosounders are a bit different from the ones we use  
11 for hydrographic surveying and sea floor mapping in that  
12 they are specifically designed and tuned for  
13 investigating and detecting biomass in the water column.  
14 That is to say, fish and schools of fish for stock  
15 assessments. They can be used for bathymetric, or sea  
16 floor mapping, but that is not what they are  
17 specifically designed to do.

18           The Dyson, however, was going to be working in  
19 the area where the Destination was lost earlier in the  
20 summer than Fairweather was going to be there, and so we  
21 sent the Dyson to go and investigate first.

22           The initial plan was to begin searching near  
23 and around the last known location, AIS location of the  
24 Destination. The vessel set up a grid, a line plan as  
25 we call it, and proceeded to acquire data

1 systematically, as I said, mowing the lawn,  
2 approximately 200 meter line spacing surveying at about  
3 eight knots. They began the search near the last known  
4 location and systematically worked out from there.

5 Overall they covered a fair amount of area for  
6 reference, from the southwest extent to the northeast  
7 extent along this edge of the data, that's approximately  
8 6.7 nautical miles. They worked on the area that they  
9 had originally planned, they then moved a little bit to  
10 the west, and a bit to the north as well. During the  
11 course of their investigation they were unable to  
12 determine whether the Destination was present in the  
13 data.

14 As I said before, the system is not  
15 specifically designed for this type of work, although it  
16 is usable for it. There was a fair amount of noise in  
17 the data. And it is not entirely certain whether or not  
18 had they transited over the location of the Destination  
19 that they would have found, that they would have noted  
20 it. I think they would have, or at least they would  
21 have been a return that was worthy of further  
22 investigation. But they did not see it in the data that  
23 they acquired.

24 A little bit later in the summer, the NOAA  
25 ship Fairweather, my vessel, was scheduled to be

1 transiting past the area to go conduct our mapping work  
2 up north near Nome. Fairweather is a hydrographic  
3 survey vessel, that is our mission. We are home ported  
4 in Ketchikan. Alaska. And our primary purpose is to  
5 conduct hydrographic surveys and to conduct sea floor  
6 mapping in Alaska and the west coast of the United  
7 States. This is bread and butter, it is what we do.

8           The Fairweather is outfitted with four 28'  
9 survey launches, that collect the majority of our data.  
10 On board each of those launches is a multibeam sonar, a  
11 high resolution multibeam sonar, a 2040 echosounder. In  
12 addition to that, the ship carries, or has installed an  
13 EM710 Echosounder which is for slightly deeper water  
14 than the launches can acquire data in. But is usable in  
15 shallower water as well as long as it is safe for the  
16 ship to navigate.

17           We arrived on July 8<sup>th</sup>, at approximately  
18 noon, and commenced our work in the area. Based on the  
19 information that we had from the Coast Guard along with  
20 the data collected by the Dyson, we established a search  
21 area that we thought had a high likelihood of finding  
22 the location of the Destination.

23           Based on the prevailing currents, which are  
24 the green arrows on the screen, around St. George Island  
25 being a clockwise current up to about a knot and a half.

1 Based on the weather reports from the night in question  
2 in February, prevailing from the northeast. And based  
3 on the AIS position, last known AIS position, and the  
4 positions of confirmed EPIRB hits, and the discovery of  
5 a life ring, and where the EPIRB was eventually found,  
6 we established this orange area as the primary search  
7 area.

8           And you will notice that that includes a fair  
9 amount of the Dyson data as well. Again, the data  
10 acquired from the Dyson was certainly useful, but not  
11 necessarily conclusive. And we wanted to make sure that  
12 we didn't miss something, so we did reacquire data over  
13 a portion of the area.

14           That allowed us a couple of things, one to  
15 verify whether there was or was not a target of interest  
16 in that area, but also to compare our data with theirs,  
17 and give us a better idea of what, you know, what we  
18 could really expect from the Dyson's data.

19           The area in blue and green is the totality of  
20 what the Fairweather collected, almost, actually there  
21 is some data that is not quite on here. We initially  
22 started as the Dyson did, in the vicinity of where the  
23 last known AIS position was. Running systematically,  
24 lines northeast and southwest. And these are, these  
25 lines on here are illustrative, they are not the actual

1 lines we ran.

2           We then moved to the east, and ran east west,  
3 and worked our way to the south. It was our expectation  
4 based on the information that we had, that the vessel  
5 would have moved to the east, not the west. And either  
6 to the north or to the south, based on the prevailing  
7 currents, and the winds and seas. We thought it, at  
8 first, that it would more likely have moved to the east  
9 and south, which is why we shifted to the east-west  
10 lines moving south towards the island.

11           Additionally, the weather was good enough to  
12 deploy a launch, we moved in closer to the shore and  
13 deployed one of our launches to do some work close in to  
14 shore given that the EPIRB was found down there, and the  
15 life ring was found in that direction, we thought  
16 perhaps the vessel could have drifted that direction and  
17 gotten close to shore.

18           While the launch was -- in that investigation  
19 the ship returned to the north and started investigating  
20 to the north, at which point we located a target on the  
21 bottom that matched size and description of the  
22 Destination.

23           I will, I would like to note that it is just  
24 barely outside of the Dyson's coverage, so unfortunately  
25 we won't know whether or not the Dyson could have

1 detected it at this point.

2           The vessel, itself, is lying on its port side,  
3 facing to the southwest in approximately 78 meters, or  
4 256 feet of water. There is a scour line that extends  
5 to the southwest from where the bow of the vessel is at  
6 approximately 100 meters or 330 feet.

7           This is a view of the data, this a view of the  
8 data from above, where it is fairly clear if you are  
9 familiar with interpreting this data that you have the  
10 stern of the vessel here, and the after deck, the bow,  
11 including the bulbous bow, the house, and the mast.  
12 There appears to be gear stacked up mid-ship. And there  
13 is even, you can make out the deck crane in the data as  
14 well.

15           This is a view from the south, again, you can  
16 very clearly see that it is a vessel resting on its port  
17 side, with the bow, and the house, the mast, and the  
18 mid-ship's gear, and the crane, along with the starboard  
19 side facing up, and the stern here.

20           Viewing it from the west, again, the bow, and  
21 the bulbous bow, the house and the mast, and the skeg  
22 along the keel of the vessel, and possibly the rudder,  
23 and the starboard side of the vessel, again facing up.

24           Now static images are all well and good, but  
25 it is much easier to visualize these in 3D if it is

1 moving. And as you can see the skeg and the hull, the  
2 starboard side, bulbous bow, you have the bow, and the  
3 house, the mast extending up. And the house and the  
4 mast, what appears to be the mid-ship's gear, and the  
5 crane, the working deck aft, which appears to be clear,  
6 and the stern of the vessel. And again, the clear aft  
7 deck, the deck crane, the stern, the skeg underneath  
8 here. And back to the start.

9           In addition to the vessel, itself, another  
10 target was identified approximately 617 meters to the  
11 southwest of the vessel. The dimensions, and  
12 visualization of the target approximately match what I  
13 understand to have been the, would have been the crab  
14 pots, the gear that was affixed to the aft deck of the  
15 vessel. My understanding is that when the vessel  
16 departed Dutch Harbor, it was fully loaded with crab  
17 pots.

18           From the data, it appears that there is only  
19 about half of the load currently on the vessel. Given  
20 the direction of motion from the last known position to  
21 where the Destination was located, this is more or less  
22 along that path, and a little bit slightly towards the  
23 last known position. So, if this is, in fact, the  
24 missing gear, then it would make sense, the location of  
25 it makes sense given the motion of the vessel.





1 missing hatch cover.

2 A. Um-hmm.

3 Q. But then can you explain if the data would  
4 indeed indicate that? Or is there any kind of  
5 limitations with the data when we take a look at images  
6 like this.

7 A. Certainly. I think perhaps that if we look at  
8 the video, it might make it a little bit more clear.  
9 Perhaps not.

10 What you are seeing here, the gaps -- the  
11 alleged gaps in the data on the deck may or may not  
12 indicate that there is an opening in the deck. The  
13 geometry of the data collection, where the vessel, the  
14 data collecting vessel is transiting above on the  
15 surface, and transmitting sound down to the bottom and  
16 recording the return is such that not every part of an  
17 object, a rock, a rack, an obstruction is necessarily  
18 fully ensonified.

19 There may be shadowing, there may be false  
20 returns. In an area such as this there is a relatively  
21 soft bottom, and a vessel lying on the bottom made of  
22 steel is a very hard surface. There may be multiple  
23 echoes that come back to the vessel collecting the data.

24 There may also be what are referred to as side  
25 load artifacts. It is a very technical aspect of sonar

1 that I won't get into, but it can cause returns in the  
2 data, that are not necessarily completely representative  
3 of what is there. We, or the technology tends to  
4 minimize those artifacts. But again, in some situations  
5 it can't totally correct for that.

6           The operations officer on board Fairweather  
7 took a very close look at the data, both the bathymetric  
8 data, and what is called water column data that was  
9 collected and we feel fairly confident that what you are  
10 referring to as these gaps in the data along the aft  
11 deck are not real gaps.

12           So, I would say it's, while it is not  
13 conclusive either way, I think I would caution against  
14 interpreting the data to indicate that there is any kind  
15 of sizable opening on the aft deck.

16           Q.    Thank you.

17           A.    Um-hmm.

18           CDR MULLER: I have no further questions.

19 Mr. Gillette?

20           MR. GILLETTE: Commander I have no follow-up  
21 questions.

22           CDR MULLER: Thank you. Mr. Karr?

23           MR. KARR: Commander, I have no follow-up  
24 questions.

25           CDR MULLER: Thank you. Ms. Spivak?

1 MS. SPIVAK: No questions, thank you.

2 CDR MULLER: All right, thank you. So  
3 Commander, this concludes the questions, and I guess the  
4 presentation for today. So before I release you, are  
5 there any other factors that you believe the Board  
6 should take into consideration as we move forward with  
7 our investigation that may not have been discussed?

8 THE WITNESS/COMMANDER VAN WAES: No, but if I  
9 may, I would like to say something. I understand that  
10 there are families and loved ones here, at the hearing.  
11 And as a mariner who spent the majority of seagoing  
12 career sailing the waters of Alaska, I have a personal  
13 understanding of the risks involved in sailing in those  
14 waters. The possibility of not -- of going to sea and  
15 not returning home is one that is -- we try not to think  
16 about but is ever-present in our minds.

17 To the families of the crew of the fishing  
18 vessel Destination and on behalf of NOAA, and the crew  
19 and the officers of the Fairweather I just would like to  
20 extend my heartfelt, and most sincere condolences for  
21 your loss. May those who were lost rest in peace, and  
22 may you find comfort in this very difficult time. Thank  
23 you.

24 CDR MULLER: Thank you. You are now released  
25 as a witness at this Marine Board Investigation.

1 Certainly thank you and NOAA for your testimony and  
2 collaboration. If I later determine that this Board  
3 needs additional information we will contact you. If  
4 you have any questions regarding our investigation  
5 please feel free to contact us.

6 THE WITNESS/CDR VAN WAES: Yes sir.

7 CDR MULLER: Thank you. We will now take a  
8 fifteen minute recess.

9 (Whereupon a fifteen minute recess was taken.)

10 CDR MULLER: Good morning. This hearing will  
11 come to order. We would like to call our next  
12 witnesses. Chief Warrant Officer Erwin, and Petty  
13 Officer Dutton. Please approach the witness table and  
14 LCDR Mendoza will administer the oath.

15 LCDR MENDOZA: Please stand and raise your  
16 right hand.

17 **WITNESS**

18 **CHIEF WARRANT OFFICER JOSEPH ERWIN**

19 **PETTY OFFICER RICHARD ANDREW DUTTON**

20 A witness produced on call of the Coast Guard  
21 was duly sworn according to the law, was examined and  
22 testified as follows:

23 THE WITNESS/CWO ERWIN: I, Chief Warrant  
24 Officer Erwin do.

25 THE WITNESS/PO DUTTON: I, MD1 Dutton,

1 Richard, do.

2 LCDR MENDOZA: Please be seated. Chief  
3 Warrant Officer Erwin, please state your full name,  
4 rank, and spell your last name for the record.

5 THE WITNESS/CWO ERWIN: Chief Warrant Officer  
6 2 Joseph Erwin, E-R-W-I-N.

7 LCDR MENDOZA: Would you please state your  
8 current employment and position title.

9 THE WITNESS/CWO ERWIN: I am the United States  
10 Coast Guard Diving Force manager.

11 LCDR MENDOZA: Do you hold any professional  
12 licenses or certificates?

13 THE WITNESS/CWO ERWIN: None Relevant.

14 Q. Petty Officer Dutton please state your  
15 full name, rank, and spell your last name for the  
16 record.

17 THE WITNESS/PO DUTTON: Richard Andrew Dutton,  
18 D-U-T-T-O-N, rank Petty Officer First Class.

19 Q. Please state your current employment and  
20 position title.

21 THE WITNESS/PO DUTTON: Navy diver, currently  
22 stationed as Puget Sound Naval Shipyard and Intermediate  
23 Maintenance Facility located in Bangor, Washington.

24 Q. Do you hold any professional licenses or  
25 certificates?

1 THE WITNESS/PO DUTTON: The only certificate I  
2 hold would be the ROV operator, which I was on this  
3 mission.

4 LCDR MENDOZA: Thank you both.

5 CDR MULLER: CWO Erwin, Petty Officer Dutton  
6 welcome. Thank you for, certainly your participation  
7 today at this hearing. And especially thank you for  
8 your efforts, your guidance, and your professionalism in  
9 carrying out your ROV survey work on the fishing vessel  
10 Destination.

11 On behalf of the Marine Board we appreciate  
12 those efforts, and that kind of information is certainly  
13 very helpful as we move forward.

14 So with that, I understand you have a  
15 PowerPoint Presentation?

16 THE WITNESS/CWO ERWIN: Yes, I do, Commander.

17 CDR MULLER: All right.

18 THE WITNESS/CWO ERWIN: Ready?

19 CDR MULLER: Yes, after you.

20 **PRESENTATION**

21 BY THE WITNESS/CWO ERWIN:

22 All right good morning, this is a PowerPoint  
23 Presentation of our expedition to locate and positively  
24 identify the fishing vessel Destination. Thanks a lot  
25 to NOAA and the commanding officer that just spoke for

1 locating the potential target for us, that took a load  
2 off for us. (Next slide.)

3           Just to give everybody a timeline in February  
4 2017 Commandant requested support from the U.S. Coast  
5 Guard Dive Program to locate, and positively identify,  
6 and investigate the fishing vessel Destination. This  
7 was before NOAA located it with their underwater  
8 topographical survey.

9           May 2017 USCG Cutter Healy was going to the  
10 Artic, and it became a vessel of opportunity to the  
11 Marine Board for us to operate off of, and to be in the  
12 vicinity of the potential location of the Destination.

13           We did a joint cruise for diving with research  
14 and development center and the Coast Guard Cutter Healy.  
15 We had Navy Divers aboard and U.S. Coast Guard divers  
16 aboard, so there was definitely a plethora of knowledge  
17 on that vessel.

18           July 2017, District 17 provided a tentative  
19 Con Op for a return trip in conjunction with this Healy  
20 trip for us to return to the scene via Coast Guard  
21 Cutter Hickory in September. That is still on the  
22 table. And then July 2017, the NOAA research vessel  
23 Fairweather locates probable fishing vessel Destination  
24 location on the sea floor.

25           August 2017 Healy arrives on scene with the

1 dive team, conducts our exhibit that we are about to  
2 present, and then again, in September, we have pending  
3 trips on the docket. (Next slide.)

4 Just a little quick tidbit on Coast Guard dive  
5 capabilities, we have Scuba diving capabilities, surface  
6 supply diving capabilities, we can go to depths of 190  
7 feet, penetrating close spaces, remote operated  
8 vehicles, handheld sonars, tow behind sonars, metal  
9 detectors, contaminated water diving, light salvage. We  
10 do specialize in cold water/ice diving. And we are  
11 subject matter experts for commercial dive operations.  
12 (Next slide.)

13 Surrounding this mission, again, primary  
14 mission was to support Coast Guard Cutter Healy. We did  
15 an add-on mission with the Marine Board of Investigation  
16 to search for the fishing vessel Destination. They were  
17 able to allocate 02 days for this operation.

18 With the information that NOAA provided, we  
19 were able to get on scene with the target. We had  
20 environmental considerations here. There was poor  
21 visibility under water, high currents 1 to 4 knots  
22 topside, and under water, and surface weather was 20  
23 knot winds, 5 to 7 foot seas. I will go ahead and  
24 defer to MD1 for on scene weather to confirm this.

25 THE WITNESS/PO DUTTON: All information



1 provided is correct. Once we were unable to deploy the  
2 ROV from the small boat, we moved back to Coast Guard  
3 Cutter Healy.

4           Once on scene and on station we -- being  
5 anchored off of the Healy. Weather conditions were  
6 around 10 to 15 knots, with 4 to 5 foot seas, noticeable  
7 topside current, as well as bottom current roughly, not  
8 to exceed 3 knots.

9           THE WITNESS/CWO ERWIN: Again those -- we had  
10 some challenging conditions, and minimal operations  
11 dates to allot to this expedition to locate the  
12 Destination. (Go ahead, next slide.)

13           Here we go, we have remote operated vehicle  
14 pictures, this looks to be a debris field from  
15 Destination circled in orange. (Next slide.)

16           Here we go, we've got the ROV with the draft  
17 marks on the suspected Destination. (Next slide.)

18           And then, we are considering this pretty much  
19 positive identification. We got a D-E-S, I know it is  
20 difficult to see, circled there, for Destination. (Next  
21 slide)

22           We have scuppers, we got pictures from. (Next  
23 slide).

24           And then some rigging. (Next slide)

25           And you have got the rails. (Next slide)

1           The boat was also able to drag and retrieve a  
2 crab pot. (Next slide)

3           And we weighed that crab pot, it came in at  
4 880 pounds. (Next slide)

5           Okay. Go ahead and close it out. And just to  
6 highlight the challenges we had to using the ROV, I know  
7 we didn't get great pics in time on scene. Weather  
8 challenges were difficult, I will let MD1 highlight it a  
9 little bit more. But we were able to get those pictures  
10 for you, with the minimum time we had, and the  
11 environmental challenges. Anything to add?

12           THE WITNESS/PO DUTTON: The only thing I would  
13 like to add is, and given the depth of water, and the  
14 training that you are given in order to operate in high  
15 current, high sea state requires you to rig a system on  
16 board the tether for the ROV. In doing so you attach a  
17 clump to the tether line, which then sinks to the  
18 bottom. Then you have a specified amount out, that the  
19 ROV operates off of.

20           So, we were kind of going off of Coast Guard  
21 Cutter Healy being moored 300 feet away from suspected  
22 target. So we gauged it off of that. And then, once on  
23 bottom, using this method, and searching, currents, yet  
24 again, were still pulling us off site. So we did the  
25 best we could with our ROV and the limitations that we

1 had, thank you.

2 **EXAMINATION**

3 BY CDR MULLER:

4 Q. Thank you. So just a few follow-up questions  
5 for the Board. I will start off. So the imagery that  
6 you were able to collect, obviously it sounds like the  
7 environmental factors subsurface, made it challenging to  
8 collect a full deck of, or greater imagery, is that  
9 correct?

10 A. CWO ERWIN: This is Chief Warrant Officer  
11 Erwin. Yes Commander, the environmental challenges, the  
12 depth, and coordinating all that made it difficult to  
13 get the ROV on scene.

14 Q. So, I take it, the way I understand it, the  
15 ROV needed to shelter in the lee of the current at the  
16 sea floor, behind the vessel. And I -- the way it was  
17 explained to me earlier as it would, to rise and try to  
18 get imagery higher on the vessel it became more and more  
19 difficult. So is that why we don't have -- or you were  
20 unable to get images of the main deck, or the bridge?

21 A. PO DUTTON: This is Petty Officer Richard  
22 Dutton. Yes, that would, that's accurate, sir. Upon  
23 rising of the keel, and trying to make our way to the  
24 working deck we were blown off of the target.

25 Q. Do you recall, so the Healy crew was able to

1 recover a crab pot. Do you recall where that crab pot  
2 was located in relation to the fishing vessel  
3 Destination?

4 A. PO DUTTON: This is Richard Dutton. No, I do  
5 not know.

6 Q. All right. I have no further questions.

7 CDR MULLER: Mr. Gillette, do you have any  
8 questions?

9 **EXAMINATION**

10 BY MR. GILLETTE:

11 Q. Yes. Good morning, my name is James Gillette  
12 with the Coast Guard. I do have one question. It has  
13 to do with the pictures of the rails and the scuppers.  
14 Was that on the starboard side or the port side of the  
15 boat? Do you know?

16 A. PO DUTTON: This is Petty Officer Richard  
17 Dutton. That would be the starboard side.

18 Q. Okay. Thank you very much.

19 MR. GILLETTE: Commander those are all the  
20 questions that I have.

21 CDR MULLER: Thank you. Mr. Karr, NTSB?

22 **EXAMINATION**

23 BY MR. KARR:

24 Q. Were you able to measure the currents that you  
25 were dealing with down by the Destination?

1           A.    PO DUTTON:  This is Petty Officer Richard  
2 Dutton.  Sir, I do not recall the exact currents.  But I  
3 know that we were within the limitations of the ROV on  
4 surface, given the rigging method that we utilized.

5           Q.    What was that?  I'm trying to get an idea of  
6 what the current was down there.

7           A.    PO DUTTON:  So Coast Guard Cutter Healy was  
8 able to give us, I don't recall the exact current.  
9 However I know it was under five knots, being -- five  
10 knot being the max that this specific ROV could operate  
11 in.

12                   However I, at depth I -- the ROV itself does  
13 not measure current.  You just go off of control  
14 ability, thruster ability.  And then being able to run  
15 sonar and stay on station as needed.

16           Q.    All right.  Thanks Petty Officer Dutton.

17           A.    CWO ERWIN:  Sir, I have an addition.  That  
18 ROV can run at about three knots, and then it becomes a  
19 challenge.

20                   Also taking into consideration the tether  
21 attached to the ROV getting pulled by the currents.  
22 That becomes kind of a sail, if you will.

23                   So their clump method, if you will, attaching  
24 an anchor and the tether to the anchor mitigates some of  
25 that current.  I believe, if it was getting blown off

1 station then it would be in excess of three knots.

2 Q. All right. Thank you Mr. Erwin.

3 CWO ERWIN: No Problem.

4 CDR MULLER: Ms. Spivak, do you have any  
5 questions?

6 MS. SPIVAK: Just a few questions.

7 CDR MULLER: Okay.

8 MS. SPIVAK: I will talk loudly since I don't  
9 have the microphone.

10 CDR MULLER: It is on its way.

11 MS. SPIVAK: Okay, I will hold on.

12 **EXAMINATION**

13 BY MS. SPIVAK:

14 Q. How quickly after pulling the pot from the  
15 water did you weigh it, how soon after?

16 A. CWO ERWIN: Just to speak in terms of getting  
17 brief summaries from the vessel, which I will have to  
18 turn the operations officer to confirm. As soon as they  
19 pulled that on deck, they did let some of the water  
20 drain out before they weighed it.

21 Q. Okay. And did you have any opportunity to  
22 weigh the pot without the lines inside it?

23 A. CWO ERWIN: I believe we did not weight it  
24 without the lines insides it.

25 Q. Okay, thank you. That's all the questions I

1 have.

2 CDR MULLER: So thank you for your  
3 presentation.

4 We have a short video clip, because while  
5 onboard the Healy, the Coast Guard Public Affairs team  
6 was also on board and were able to capture some of the  
7 video imagery, and produce a short video.

8 It represents, essentially, the most useful  
9 imagery that we have. So it is representative. And I  
10 think it also gives a projection of the kind of  
11 challenges the ROV had during this work.

12 (Playing 7-24-17 video in open court to 206.)

13 CDR MULLER: So I will maybe just as a few  
14 more question to clarify a few things on that video.

15 Q. Towards the end there, that round piece of  
16 steel, we surmised that that was the bulbous bow, would  
17 you agree?

18 A. PO DUTTON: This is Petty Officer Richard  
19 Dutton. Given my experience with working on many naval  
20 vessels, and diving under naval vessels, I would agree,  
21 sir.

22 Q. I have no further questions.

23 CDR MULLER: Mr. Gillette?

24 MR. GILLETTE: Commander I have no follow-up  
25 questions.

1 CDR MULLER: Mr. Karr?

2 MR. KARR: I have none.

3 CDR MULLER: Ms. Spivak?

4 MS. SPIVAK: No. Thank you.

5 CDR MULLER: Okay, I just want to -- this  
6 might be an opportune time for myself as the Board  
7 Chairman to just mention a little bit about where we  
8 will move forward regarding future dive survey efforts.  
9 So again, I value the assistance of NOAA with their  
10 surveys, and certainly the efforts of the Healy and the  
11 Coast Guard and Navy personnel with the dive teams.  
12 Unfortunately the ROV work had challenges. And the  
13 imagery was somewhat limited.

14 So, moving forward, after this hearing  
15 concludes, my intention is to continue to work with  
16 Chief Warrant Officer Erwin about developing a future  
17 course of action, and then briefing that up the chain of  
18 command, to see about possibilities of revisiting the  
19 site. So of course that is a very dynamic type of  
20 decision that involves a lot more input and discussion.  
21 But it is something, certainly, that myself and the  
22 Marine Board would like to pursue, if at all possible.

23 Certainly, imagery is very helpful. But I  
24 would also say, you know, we can also feel confident  
25 that we can move forward with a productive investigation



1 even without it. So this kind of technology has  
2 certainly, the capabilities have increased within just  
3 the last number of years, and certainly over the  
4 decades.

5 But marine boards, investigating a similar  
6 kind of case, perhaps thirty years ago certainly didn't  
7 have this kind of technology available to them. So, you  
8 know, I have to keep that in mind as well. But we will  
9 leverage every possible opportunity as we move forward  
10 in this investigation.

11 So that concludes the questions and the  
12 comments that we have from the Marine Board. Chief  
13 Warrant Officer Erwin and Petty Dutton is there any  
14 other issues that you think we should, that the Marine  
15 Board should consider that was not otherwise discussed  
16 here?

17 THE WITNESS/CWO ERWIN: No, I don't, sir.

18 THE WITNESS/PO DUTTON: No Sir.

19 CDR MULLER: Do you have any other comments or  
20 --

21 THE WITNESS/CWO ERWIN: Yes, I'd like to  
22 address the family members. I lived on Kodiak Island  
23 for six years, and I have some friends in the crab  
24 fleet. I can promise you that, you know, as far as we  
25 have vessels of opportunity, and the MBI approves, we

1 will definitely keep up the attempts to launch ROV's,  
2 and technologies to identify this.

3           It was challenging, we didn't know what the  
4 environment was going to be like under water. We found  
5 out that was, you know, our inaugural cruise. And if  
6 given the opportunity, we will definitely attempt to  
7 get closure for you guys, and identify what happened.  
8 Thank you.

9           CDR MULLER: Thank you. With that, you are  
10 now released as a witness to this Marine Board  
11 Investigation. Thank you to you, your staff, your team,  
12 and the Coast Guard Cutter Healy for your efforts and  
13 cooperation, and collaboration.

14           If I later determine that this Board needs  
15 additional information we will contact you. If you have  
16 any questions regarding this investigation please  
17 contact myself or LCDR MENDOZA, thank you. Good  
18 morning.

19           We will now take a ten minute recess.

20           (Whereupon a ten minute recess was then taken.)

21           CDR MULLER: Good morning again. Good  
22 morning, this hearing will come to order.

23           The Board has concluded its examination of  
24 witnesses, and evidence at this hearing. Ms. Spivak, as  
25 the Party-in-Interest do you wish to call any witnesses

1 or examine any evidence?

2 MS. SPIVAK: No thank you, Commander.

3 CDR MULLER: Thank you. Would you like to make  
4 A closing statement?

5 **CLOSING STATEMENTS**

6 MS. SPIVAK: Yes I would, thank you. We spent  
7 nine days together in this room, and some of these days  
8 were educational, some of these days were very  
9 emotional.

10 As Commander Muller pointed out yesterday,  
11 forty witnesses testified during these days. I think  
12 what is important to understand that those forty  
13 witnesses and these nine days represent only the tip of  
14 the iceberg, only a little drop in what this Board has  
15 done to date, and what they, most likely will do going  
16 forward. So I would like to thank you all for your  
17 efforts. For the time you invested and for the  
18 resources you invested in this task.

19 I know within the past six months you all had  
20 a crash course in the Bering Sea crab industry, and I  
21 hope that during those six months you had an opportunity  
22 to appreciate and realize what an incredible industry it  
23 is. And what incredible, hard-working, and courageous  
24 people work in this industry. I, for one, am very  
25 deeply honored to know these people and to work with

1 some of them. Our fishing community is a small  
2 industry, it is a small family. And the loss, tragic  
3 loss of Jeff, Larry, Ray, Darrik, Glen and Kai was felt  
4 throughout, and our thoughts remain with their families  
5 and loved ones.

6           It was amazing to see how the fishing  
7 community pulled together in their support of the  
8 families and all the charitable events that took place.  
9 David Wilson is very grateful to all of those who  
10 offered their support and encouragement during this  
11 difficult time. He is looking forward to the time when  
12 he can finally, personally reach out to all of you, and  
13 share with you personally, in this difficult time.

14           He is suffering and thinking of you every  
15 single day. David fished and crabbed for over forty  
16 years, and while he, himself is not fishing any longer,  
17 both of his sons and his brother are fishing, out today,  
18 as we speak. He remains an integral part of this  
19 community and deeply cares about it.

20           Mr. Wilson is very thankful to the Good  
21 Samaritan vessels, and to the U.S. Coast Guard for their  
22 attempts and efforts to locate the survivors, and to the  
23 U.S. Coast Guard and NTSB for continuing efforts to  
24 determine the cause of the sinking.

25           The fact of one of the best vessels in the

1 fleet with a crew of extraordinary experienced men  
2 disappeared without even a mayday call is very  
3 unsettling. And it sends ripples of worry and concern  
4 throughout the industry that this can happen to any  
5 vessel and any crew.

6 And so Mr. Wilson and I, myself, we are very  
7 hopeful that as a result of this hearing, as a result of  
8 the ongoing investigation, you will be able to determine  
9 the cause, or causes as it might be of Destination's  
10 sinking.

11 That no more names be added to the already too  
12 long of a list of those lost at sea. And that the loved  
13 ones can be safely delivered home. Thank you.

14 CDR MULLER: Thank you.

15 The Commandant of the United States Coast  
16 Guard has convened this Marine Board of Investigation to  
17 produce a report on the circumstances surrounding the  
18 sinking of the fishing vessel Destination with the loss  
19 of six lives on February 11<sup>th</sup>, 2017, approximately three  
20 nautical miles north of St. George Island, Alaska.

21 The purpose of this public hearing was to  
22 collect factual information. The Marine Board will  
23 analyze this factual information to develop its report  
24 of findings, conclusions, and recommendations.

25 With a productive hearing now behind us I

1 believe we gathered the factual evidence necessary to  
2 transition to the analysis phase. Although even as we  
3 begin the process of writing our report, there is always  
4 a chance that the board could convene a short public  
5 hearing session if we identified new witnesses, or  
6 information.

7 Further, the Marine Board will continue to  
8 collect and review any evidence submitted in the future,  
9 including submissions to the [FVDestination@USCG.mil](mailto:FVDestination@USCG.mil)  
10 email address.

11 Gathering the evidence over the last six  
12 months has been challenging, due to the wide scope and  
13 complexities of the investigation. We could not have  
14 done so without the collaborative support of our  
15 partners. I would like to take this opportunity to  
16 sincerely thank Mr. Dave Wilson, and his  
17 representatives, the Parties-in-Interest.

18 Our government agencies, especially NOAA, and  
19 the commanding officers and crew of the NOAA ships Oscar  
20 Dyson and Fairweather, the NTSB, Coast Guard offices  
21 including District Thirteen and Seventeen staff, Coast  
22 Guard NAVCEN, Coast Guard Cutter Healy, and the Coast  
23 Guard dive locker.

24 I would also like to thank industry  
25 organizations, company representatives, and especially

1 individual witnesses who dedicated their time and  
2 resources to this hearing's endeavor. The collective  
3 expertise of those involved in the process has helped  
4 the Marine Board clarify numerous technical and  
5 regulatory matters.

6 I want to emphasize that the members of the  
7 Marine Board are conducting this investigation with a  
8 profound sense of duty to identify the incident's cause  
9 and causes, and push for immediate changes to promote  
10 fishing vessel safety. Even though the public side of  
11 this investigation is coming to an end, rest assured, we  
12 will continue to work in earnest to organize the facts,  
13 conduct analysis, identify casual factors, draw  
14 conclusions, and generate meaningful recommendations.

15 In the interim, I am confident that conducting  
16 the proceedings in a public forum and leveraging  
17 Livestream internet and Twitter raises awareness across  
18 the fishing vessel fleet including vessel operators,  
19 supporting organizations, and compliance agencies.

20 It is my hope that the fleet takes the  
21 opportunity to reflect on the primary issues addressed  
22 by the witnesses and take corrective action especially  
23 ahead of the upcoming crabbing season.

24 On behalf of the entire Board, I would like to  
25 express my deepest condolences to the friends,

1 shipmates, and families of the fishing vessel  
2 Destination's crew lost at sea. This is certainly a  
3 difficult time for them.

4           We hope our efforts, in at least some small  
5 measure, serves as one navigational marker helping them  
6 stay in the channel, making headway towards peaceful  
7 harbors. Their struggle and courage to come to terms  
8 with the tragedy continues on a daily basis. Especially  
9 here, in the hearing room where the realities of this  
10 tragedy are very visible.

11           But to my fellow investigators, I offer, it is  
12 also important for us to observe this emotional toll, as  
13 it strengthens our resolve daily.

14           Finally, before we adjourn, I ask that you  
15 join me in another moment of silence, to honor the six  
16 lives lost at sea. If everyone could please stand at  
17 this time.

18           (MOMENT OF SILENCE OBSERVED.)

19           CDR MULLER: Thank you. This hearing is  
20 adjourned.

21           **(The proceeding then concluded at 113847.)**

22



**CERTIFICATION**

This certificate is valid only for a transcript accompanied by my original required signature on this page.

I hereby certify that the proceedings in the matter of Marine Board Investigation of the F/V Destination, heard in the United States Coast Guard Thirteenth District, Seattle Washington, Thursday August 17, 2017, were recorded by means of audiotape.

I further certify that, to the best of my knowledge and belief, page numbers one to seventy-two constitute a complete and accurate transcript of the proceedings as transcribed by me.

I further certify that I am neither a relative to nor an employee of any attorney or party herein, and that I have no interest in the outcome of this case.

In witness whereof, I have affixed my signature this 27th day of October, 2017.

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Sally S. Gessner, Court Reporter