UNITED STATES OF AMERICA

NATIONAL TRANSPORTATION SAFETY BOARD

Investigation of:

ACCIDENT OF THE COMMODORE

* Accident No.: DCA21FM029 * FERRY IN BROOKLYN, NEW

YORK ON JUNE 5, 2021

Interview of: BRIAN ACHILLE, Director of Engineering

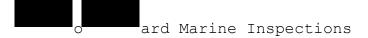
Seastreak

Staten Island, New York

Tuesday, June 15, 2021

APPEARANCES:

LUKE WISNIEWSKI, Investigator National Transportation Safety Board



JACK BEVINS, Vice President, Operations Seastreak

DAN FITZGERALD, ESQ., Freehill, Hogan & Mahar On behalf Seastreak

I N D E X

<u>ITEM</u> PAGE

Interview of Brian Achille:

By Mr. Wisniewski

By Mr.

INTERVIEW

(12:19 p.m.)

MR. WISNIEWSKI: Good afternoon. Time is 12:19 on June 15th,
2021 here at Sector Coast Guard in New York. My name is Luke
Wisniewski from the National Transportation Safety Board and we're
here interviewing the -- your title?

MR. ACHILLE: Director of engineering.

MR. WISNIEWSKI: And your -- say your first name and spell your last name?

MR. ACHILLE: Brian Achille, A-C-H-I-L-E.

MR. WISNIEWSKI: Thank you. And we're here for the Seastreak Wall Street -- or Seastreak Commodore -- correction -- accident that occurred on June the 5th, 2021, approximately 1551. And again, we'll go around and introduce everyone. My name is Luke Wisniewski, last name W-I-S-N-I-E-W-S-K-I, with the National Transportation Safety Board. And is it okay to record this --

MR. ACHILLE: Yes, it is.

MR. WISNIEWSKI: -- recording?

MR. (PH) from Coast Guard Marine Inspections, Sector New York.

MR. FITZGERALD: Dan Fitzgerald with the law firm of Freehill, Hogan & Mahar for party-in-interest, Seastreak.

MR. BEVINS: Jack Bevins, Seastreak, LLC.

MR. WISNIEWSKI: Great, thank you.

INTERVIEW OF BRIAN ACHILLE

BY MR. WISNIEWSKI:

- Q. So let's just go through your background. Can you go all the way back to when you started getting involved with the maritime industry, whether it's fishing boats, work boats?
- A. So 2005 I started school at SUNY Maritime; went for mechanical engineering, graduated January of 2010; started pursuing a maritime career at Seastreak in February of 2010; worked with them for approximately about a year and then went to one of our other companies, Interlake Steamship; sailed as a third engineer there as -- for about 120 days as a relief engineer. And then came back to Seastreak after my stint on the Great Lakes. And then started working, I would say, end of 2010 again with Seastreak. And then until, you know, current.

In that timeframe, when I first came back from the Great
Lakes, I started -- I was the project engineer for (indiscernible)
power, the Seastreak Wall Street, which is now the Seastreak
Nantucket Express. So I did project engineering for that design,
a lot of the drawings, when we were undergoing the repower. That
was a four engine -- four water jet boat that we turned into a
two-engine controlled pitch vessel. That was completed 2012.
From 2012 until about 2015 I was designated the fleet engineer so
I would be basically in between all of the engineers on the boat
and the management side of the engineering.

2015 I acquired the position of director of engineering. With that I, you know, ended up doing two other repowers and a new

- 1 | build, which is the *Commodore*. Currently overseeing another new
- 2 | build and managing the fleet still on the engineering side.
- 4 credential do you current hold?
- 5 A. Currently have third engineer, unlimited horsepower.
- 6 Q. Did you increase your steam in the Great Lakes?
- $7 \mid \mid A$. Increased the steam, but never took the seconds test.
- 8 Q. You didn't -- okay. I thought that was automatic after?
- 9 A. You just have to apply. Right now my license is in compliance.
- 11 UNIDENTIFIED SPEAKER: Continuity?
- 12 BY MR. WISNIEWSKI:
- 13 Q. Continuity?
- 14 A. Continuity.
- 15 Q. So you were in the five year -- you're in that one-year grace
- 16 | period?
- 17 | A. No, so I'm actually on my second renewal.
- 18 | Q. Oh, your second renewal.
- 19 A. So it's still live until I think '23.
- 20 | Q. Okay. And do you have your STCW endorsements with that
- 21 | credential?
- 22 A. I did and then I did take a test to keep them up to date.
- 23 | Q. And that also coincides with the license, your SSW (PH)?
- 24 A. Correct.
- 25 | Q. And you said it's good until -- I didn't -- I'm not sure --

- did you bring it?
- 2 A. I don't have it with me.
- 3 0. Yeah.

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4 A. I don't have it with me.

with repowering, as well, at that time?

- Q. Okay. So we'll look it up, but I just like to have that just for background and understanding. Okay. So you sailed in -- so in this fleet, fleet engineering position -- so you were involved
- 9 A. Correct.
- 10 Q. And how much time would you say you spent on the different
 11 vessels, whether it's the New York, the New Jersey, the Highlands?
- 12 A. Sailing aboard as an engineer, I would say probably three to
- 13 | four years' time on all of the vessels. For the repower I was
- 14 mainly focused -- for the Wall Street repower back in -- basically
- 15 end of '11 to '12 I was on that vessel, all for the commissioning,
- 16 the testing. And then I was sailing on that vessel for probably
- 17 about a year training everybody on it and just working as
- 18 | engineer/deckhand.
- 19 Q. Okay. And with that repower, that is -- are they MTUs
- 20 engines on there?
- 21 A. Correct, yes.
- 22 Q. And is it the same configuration as far as the Rolls-Royce
- 23 | controls, propulsion controls?
- 24 A. No, it's a control pitch boat, propeller boat.
- 25 Q. It's a CBP wheel (PH)?

- A. So that's got the scanner, (indiscernible) control system on
- 2 | it. Little different -- I mean, there are similarities between
- $3 \parallel$ the two systems.

- $4 \parallel Q$. Okay. So let's get into -- you said you were part of the
- 5 project. You were the project lead or project engineer for the
- 6 | Seastreak Commodore when it was --
- 7 A. Correct.
- 8 | Q. -- being built?
- 9 A. Correct.
- 10 | Q. How much time did you go down to the shipyard?
- 11 A. I was probably down there for total, probably a year, 365
- 12 days out of 18-, 20-month build. I handled all the purchasing for
- 13 | that vessel; basically dealt with all of the representatives from
- 14 | various companies for that.
- 15 | Q. And were you on there during sea trials and commissioning or
- 16 | acceptance --
- 17 A. Correct.
- 18 0. -- tests?
- 19 A. All stages throughout the commissioning of the vessel, you
- 20 know, before it even goes in the water, all the testings.
- 21 | Q. And during that timeframe I assume you were working with all
- 22 of the various vendors, MTU --
- 23 A. MTU, Rolls-Royce.
- $24 \parallel Q$. -- Rolls-Royce. Did they provide you training on this, or
- 25 the engineers that were down there, on the computer systems?

- A. The engineers that were down there. They -- I -- so backing up a little bit. We have -- we did the New York in 2017. So I was able to gain knowledge there. Then we did another vessel, the New Jersey, which actually coincided with the Commodore. So there was rigorous training or many opportunities for training during,
- 7 0. And for the Commodore --

during all of those builds.

- 8 A. Correct.
- 9 $\|$ Q. -- with the propulsion control system --
- 10 | A. Yes.

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- 11 Q. -- the touchscreens, are they similar models to what is on 12 the New York/New Jersey?
- 13 A. So it's the, it's the same Canman touch, it's one package
 14 that they provide with the waterjets for the controls. Possibly
 15 different software on them, or revisions if you will. All of the
 16 systems runs are identical. The difference being between the New
 17 York and New Jersey is the number of waterjets. As far as the
 18 bridge layout, it's identical, but the Commodore will have two
 19 backup controllers on the -- in the wheelhouse.
 - Q. And going into -- since you're familiar with the various vessels -- the New York, New Jersey, the Commodore. Do you provide training to the engineer that is coming on board? Do you go through is training and sign off portion of it or --
- 24 | A. I go through --
 - Q. -- how does that work?

- 1 A. So I'll have engineers that I have trained and then they will
- 2 be on board the vessel and they will -- if someone is coming on
- 3 | they will walk them through the boat. They'll basically shadow
- 4 them for a period of time. And then eventually -- I'll get on the
- 5 | boat and I'll go through some of the systems, just -- you know,
- 6 I'll just pop on the boat and let me show you some things. But we
- 7 have engineers that have been signed off that end up teaching it
- 8 and showing oncoming engineers.
- 9 Q. Understood. Are you spot checking them or are you just
- 10 | sharing your knowledge of it?
- 11 A. Spot checking and just honestly randomly going on the boat
- 12 | and taking the captains or the engineers, whoever it may be, and
- 13 | just going through the system with them. Basically refreshers
- 14 | whenever I'm on the boat.
- 15 | Q. Okay. So this training you get for, let's say, Rolls-Royce
- 16 and MTUs --
- 17 A. Correct.
- 18 | Q. -- that is all basically on-the-job training? You're working
- 19 | with the technician?
- 20 A. Correct.
- 21 Q. Is there any classroom training that you take?
- 22 A. No, there is not.
- 23 | Q. Like a certification where it's a like a week course?
- 24 A. No. No, they don't give us any certification. The only
- 25 | certification that we have for our engineers, we do send them to

- MTU school, so that they do get a certificate for. So we'll send
- 2 | them out for a week at a time. They will -- the first one is
- 3 basically doing overhauls and maintenance and then touching upon
- 4 the electronic side, the engines. But as far as Rolls-Royce, no.
- 5 Q. You indicated you send people off to that school?
- 6 A. Correct.

- $7 \parallel Q$. And where do they go, where do they for training for that?
- 8 A. In Michigan; MTU North America has a training facility there.
 - Q. And it's a week long? How long is the course?
- 10 A. Yeah, it's a week long. I believe you show up there on a
- 11 | Monday and you leave Friday evening.
- 12 | Q. All right. So we went into those training certificates. We
- 13 | talked about your licenses. Is there any other, like, training
- 14 certification programs that you have?
- 15 A. Refrigeration for HVAC and just my Merch Mariner credential.
- 16 \parallel Q. So, like, the universal certification for --
- 17 A. Not universal. Recovery and --
- 18 | Q. Okay.
- 19 A. -- 409 (indiscernible).
- 20 | Q. 409? All right. And any other, like, training outside of
- 21 | that, like, grad school --
- 22 A. No.
- 23 | Q. -- college work? All right. So I'm going to --
- 24 MR. WISNIEWSKI: Any questions with training background?
- MR. with inspections.

MR. So do all your engineers go to the MTU school? MR. ACHILLE: So we started this program two years ago and the class is very small, just limited by size and by how many people can actually work on one engine as we take it apart. So we started, I guess it was before COVID. It was two years so we had 10 participants go to that. So we have sent 10 engineers through it and we have -- we still have more to send once we get back up and -- the training facility gets back up and running we'll be sending out another crew. It was my -- it was Seastreak's idea, you know, let's send these guys out for additional training to help just understand and be familiar with working on the engines. So we set it every year because we don't have -- we can only get one class a year because it's booked by -- primarily, actually, the Coast Guard sends all of their people to the same school. So there's only one availability and we had to fight it to be able to get that one spot.

UNIDENTIFIED SPEAKER: That's a contributing factor.

BY MR.

- 19 Q. And then -- so you got promoted to director of engineering.
- 20 A. Correct.

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- Q. The fleet engineer position, was that filled or were you still holding the same responsibilities?
- A. So I held the responsibilities for a couple years, kind of doing both, which was fine; didn't have any issue doing that as far as time management. And then in 2019 -- it says '18 -- we

ended up hiring Jeff Martucci (PH); that ended filling that role of fleet engineer. So he comes on board with -- he was a service tech for just about 20, 25 years with Johnson Towers, which was a service company that we used for servicing all of our MTUs. So he was always working on our boats since 2013, I think was his first visit on the Wall Street when -- and he came on and, you know, he worked with us for 7 years and then we ended up hiring him in, I believe it was, February of 2018.

MR. Okay.

BY MR. WISNIEWSKI:

- Q. Luke again with NTSB. Go through a little bit about the, like, maintenance program. We heard today was, like, there's one that's called wheelhouse.
- 14 A. Correct.

- 15 Q. Can you go through that with us?
 - A. So with the SMS system requires a detailed maintenance and repair system, basically logging everything on the boats, primarily all critical systems. So we hired a company, Wheelhouse Technologies, that came on board, did a walk-through of four of our vessels at one time and then the remaining vessels, and then the Commodore during acceptance. Or just after sea trials. They came on, did a walk-through of the vessels, basically listed every system, took down the generators, model numbers, serial numbers, and then ended up going to the manufacturer's recommendation as far as maintenance intervals, and what we should do, say,

quarterly checks or number of hours on the engine as far as services. So it auto-populates, either by time or hours, it will populate alerts saying okay, your engine has 1,000 hours on it. It will generate within, you know, whatever your forecast is, 25 hours or so. It will say, okay, you need to do an oil change. Same thing with the fire pumps you have to -- every month there's a check that says, okay, you got to check your water -- your fire pump. So it goes through all of the subsystems of the vessel and generates basically alerts for the engineers to check. It also has properties where you can record corrective maintenance or one-time maintenance. If something is not part of or in the maintenance program, you can add in. Say you did a water pump or you had to replace a pipe or whatever it may be, you can store information in there.

- Q. And go through what your responsibilities are to that Wheelhouse system, to oversee that maintenance --
- 17 | A. So -- correct.

- 18 | Q. -- make sure the --
 - A. So I'm administrator of that system. So I can, you know, view all of, view all of the vessels, view all of the systems. I can -- you know, if I see something where, okay, well this isn't really a critical system or we don't have to do this check or this doesn't actually even belong in here, I can make those changes.

 Then I -- looking at it, you know, I can delegate, okay, you -- this has to be done or this didn't get done or if the ship is in

- $| \cdot | \cdot |$ dry dock, we can postpone certain, certain maintenance intervals.
- $2 \parallel Q$. And who else looks at this system that looks at the work
- 3 orders, looks at the taskings? I imagine it does populate certain
- $4 \parallel$ things that are overdue, but is there anyone else that you work
- 5 with that is responsible for --
- 6 | A. So it's --
- 7 | Q. -- making sure those tasks are carried out?
- 8 A. -- myself and then Jeff Martucci, who is also an
- 9 administrator. He can look at it and delegate tasks or put -- you
- 10 | know, inputs into it. The on-board engineers all have access to
- 11 | it; the captains have access to it, as well.
- 12 | Q. And we were hearing earlier, but just I want to make sure --
- 13 so it's username/password? How is --
- 14 | A. Username/password.
- 15 | Q. So you delineate who can log in and --
- 16 A. Correct.
- 17 \mathbb{Q} . -- what authority --
- 18 | A. What their access --
- 19 Q. -- or ability they have?
- 20 A. Exactly.
- 21 | Q. Okay. And so for most of the engineers on board, they can
- 22 | just sign off on work being done?
- 23 A. They can sign off on work being done, they can create work
- 24 orders, they can do one-time maintenance. They can't change
- 25 | frequency and they can't delete anything out of there.

MR. WISNIEWSKI: All right. That sounds good. Any up to the (indiscernible) --

MR. inspections.

BY MR.

- Q. Does this -- is Wheelhouse approved by anybody? Is it approved by -- I guess ABS is your provider or your (indiscernible) --
- || A. It's --

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- 9 Q. -- safety management system. Do they --
- A. It's accepted as a maintenance system. I don't know if
 that's a case-by-case basis. I believe you kind of have to prove
 yourself that you're using it correctly to be able to be approved
 by ABS. Wheelhouse in general, I'm not positive if they are. But
 I definitely can find that out for you.
- 15 0. Sure.
- A. Because they were, they were just bought by a new company
 about three or four weeks ago. So they may -- much bigger company
 they may be accredited. But I can find out.
- Q. Okay. And just overarching umbrella for your position
 description. I know you don't have it in front of you, but just
 -- you know, you've encompassed a lot of them already, but if you
 can give us a little bit more on what --
 - A. So director of engineering, handling day-to-day operations of the fleet on the engineering side and the operations side. Work very closely with Jack Bevins handling, you know, whatever is kind

of thrown at us every day. Main thing is, you know, safe practices aboard the vessels and complying with all regulatory agencies. Planning shipyard visits, budgeting, new builds, you know, and then just overall maintenance of the fleet.

BY MR. WISNIEWSKI:

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- Q. Sounds good. I'd like to now just go into the events that unfolded and how you became aware of the Seastreak *Commodore* on June 5th and the accident that occurred.
- So I believe it was 4 -- or 1625 was my first phone call, which was pretty much immediately once it happened I received a phone call from James Davis. He was the onboard engineer at the time. I missed his first phone call. Picked the next phone call or I called him back within 30 seconds. Spoke to him. immediately told me he was, you know, in a canal and we were trying to figure out what canal he was in. And he started saying we were taking on water in the port engine room so then I directed him and just talked to him. You know, start the bilge pumps. know, at this time I didn't know I guess how much water was coming So I did just kind of talking to him and then he said we're taking on a lot of water. And so then I said make sure you secure all the power to that engine room, which he did. I met up with Jack probably 4:30, 4:40 at our shop in Atlantic Highlands, New Jersey. We ended up -- we were trying to figure out how to get to the vessel. There was a couple ideas. We ended up jumping on the 5:00 ferry that left from Highlands and we got to East 35th

Street. We then -- Jack contacted Miller's Launch; ended up taking Miller's Launch from 35th street to the vessel. That was -- I forget the name of the inlet was.

Q. Bushwick.

A. Bushwick. And then we got on the boat, heavily -- FDNY, all the passengers were off. The crew was still there, heavy FDNY and Coast Guard presence and NYPD. By that time they had probably about 7 water -- dewatering pumps on the boat. They were pumping out the fuel void and the port engine room, the port fuel void/port engine room. And so I saw, you know, there was water just at the air filters on the port engines. Ended up instructing, kind of took charge of the dewatering process. Had them take the pumps out of the fuel void because that wasn't really making any water and concentrating on just the engine rooms and putting everything in the engine room.

After that we had Randive, which was a dive company that was brought out by Miller's Launch; Jack coordinated that. They came on the boat. They sent one diver down. He did a dive underneath the port side and the starboard side to see what, what damage we had. He reported that we had a 16 by -- or 18 by 6-inch tear between the forward bulkhead of the engine room and the fuel void, which are attached by a watertight bulkhead. And there was a puncture right between the two, causing both the fuel void and the engine room to flood. The pumping power we had basically, you know, stopped it from coming in more, but you know, we couldn't,

we couldn't gain on it. The only time we gained on it was when the tide started going out. We were able to gain about a foot and then by the time Randive was able to shore up the hole we were able to pump out the space in probably about approximately an hour time.

After everything was secure we stayed on the vessel, came up with a salvage plan or a plant to get it to the shipyard to undergo repairs and inspection. That occurred Sunday at about 7:30. We had North River Shipyard, they showed up with a tugboat and a barge that I orchestrated the night before. They were able to pull us free. We didn't have any -- you know, no water, no water was coming into the compartment. So they were able to pull us free, put us on the barge on the port side, and then tow us from New York Harbor to North River Shipyard, which is located in Nyack, New York.

Hauled the vessel there and put it up on blocks, returned the following day to basically inspect the damage.

- Q. All right. Thank you for that. That's a good narrative. (Indiscernible) go through this, and we're going to have probably a couple more follow-up questions on what went on. I want to go back to just what did you -- you indicated you directed Mr. James Davis to do certain things.
- 23 A. Correct.

Q. And I just want to make sure I captured them all. So you indicated that you told him to secure the power.

- A. Secure the power to the port engine room.
- 2 \mathbb{Q} . And what did that entail? Did you take him through it or was
- 3 | he --

- $4 \parallel A$. No, he was --
- $5 \parallel 0$. -- familiar with the --
- 6 A. It was more of me thinking, just myself, okay, I'm going
- 7 | through the same checklist that he was going through. So it
- 8 wasn't like oh, it's in -- you know, he didn't -- I didn't have to
- 9 tell him oh you've got to go this closet to do it. He knew
- 10 | exactly where it was and what to do. It was me thinking out loud
- 11 and there was another person on that line, you know, just kind of
- 12 going back and forth.
- 13 | Q. And when you instructed them to drop down the portable --
- 14 A. Correct.
- 15 Q. -- bilge pumps, do you know what size they were or which ones
- 16 | they were or where they were located?
- 17 A. Those are 70-gallons a minute. They're located in the port
- 18 | electrical closet upstairs with 100-foot cord so it can reach
- 19 every void from its receptacle, which is located in the port
- 20 | electrical closet. They dropped it down into the engine room by
- 21 | the wing station.
- 22 \parallel Q. Is that the forward ladder -- no, the wing station is the --
- 23 \blacksquare A. No, that would be the AFT ladder.
- 24 | O. -- AFT ladder?
- 25 A. Correct. Just in front of the number 2 engine.

- Q. Okay. And you indicated they also dropped one down into the forward port engine --
- A. So once --

- $4 \parallel Q$. -- fuel tank area?
 - A. I believe it was FDNY, once they showed up, they had a series of different pumps, they had trash pumps, they had electrical, hydraulic pumps, they had -- they put one in the fuel void and then they had two, I believe, on the forward ladder going into the fuel void, and then one -- they had two more in the AFT ladder in front of engine number 2. They had all of those pumping together. My concern was the fuel void, there was nothing that was -- you know, that could really get damaged down there, so I had them pull that pump out and put that in the engine room and see if we can get that a little further down, but because of the hole we just
 - Q. Were you pretty much rested on the bottom? Were you grounded where you didn't have to deal --

couldn't -- we couldn't make progress. We weren't going up, but

- 19 A. So --
- || Q. -- other than with the tide coming in and out --

we weren't being able to dewater.

A. So we weren't -- we were not aground on the stern of the vessel. So when we got there it was -- I guess we were coming up to -- what is that, high tide. We were coming up to high tide so we ended up trying to see -- Jack and myself, we ended up attaching a weight and trying to see how deep it actually was,

1 where was it shallow, that's what we expected. It was actually 12

2 \parallel feet underneath the bottom of the boat. At low tide we were at 4

feet. So the stern of the vessel was never actually aground.

4 What was aground was the bow of the boat. The port and starboard

5 pontoon, probably from the first five frames of the vessel were

6 actually on an old boat launch ramp. So that was aground. The

7 stern of the vessel actually was never really, you know, in -- on

the bottom. What caused probably the water to come in was the bow

9 being up high and putting pressure on the stern.

- 10 Q. And were you able to see what made the puncture marks on the
- 11 port pontoon, between the port engine room and the --
- 12 | A. I was not able --
- 13 | 0. -- fuel tank?
- 14 A. I was able to see it after we dewatered it I saw the
- 15 | puncture. What caused it, no, I could only -- I could just see
- 16 | varies objects on the way into where it was that could possibly
- 17 | have done it, which were clearly 4 foot underwater, but just
- 18 | seeing what's on top of the water (indiscernible).
- 19 | Q. In low tide you couldn't see if they were --
- 20 A. No.

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- 21 | Q. -- scraped or any new gouge marks on those riprap or pilings
- 22 | that were on either side of the --
- 23 | A. Uh-uh.
- 24 | Q. Okay. And when it was aground on the boat ramp and resting
- 25 | there, was there any concerns of the stability of the vessel at

- 1 | the time? Were there --
- $2 \parallel A$. No, there was not.
- $3 \parallel Q$. Worried about flipping or laying over too far to one side?
- 4 | A. No.
- $5 \parallel Q$. It was --
- 6 A. It was --
- $7 \parallel Q$. -- (indiscernible) enough --
- 8 A. It was stable.
- 9 Q. -- marginal stability on a port pontoon --
- 10 A. Correct.
- 11 | Q. -- even with the two spaces filling?
- 12 A. With the two compartments compromised never feared that or
- 13 | thought -- you know, with still having all the water underneath
- 14 | and you're not making water and you're not gaining anything,
- 15 | nothing was going to change.
- 16 Q. And how high did you estimate what the port engine room water
- 17 | level was?
- 18 A. So from the keel it would probably be 12 feet from the keel.
- 19 | I mean, it's -- in that area, it's pretty sizeable V so your deck
- 20 is probably 4 foot, probably (indiscernible) 10 to 12 feet in
- 21 there from the --
- 22 Q. In the port engine room space?
- 23 A. Correct.
- 24 Q. And how much in the --
- 25 A. Fuel void?

Q. -- fuel void?

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- 2 A. You're probably looking at 8 to 10 -- 8 to 10 and then 10 to
- 3 12 in the engine room.
- 4 Q. Now would that take it all the way up to the -- what rung on
- 5 | the ladder, on the AFT ladder on both spaces?
- 6 A. I don't remember counting.
- $7 \parallel Q$. Okay. But when you looked at it, that's how you're
- 8 | estimating that?
- 9 A. Yeah.
- 10 Q. Eight to ten, okay. In the fuel void and then 10 to 12 you
- 11 said in the --
- 12 A. In the engine room.
- 13 || Q. -- in the engine room. And no other water in any other
- 14 | space?
- 15 | A. There was -- so in the lazarette, which was not compromised,
- 16 but we do have bulkhead seals that go from the drive line to the
- 17 waterjets that are located in the lazarette, they're fitted with
- 18 two seals that once they see water or are submerged in water, they
- 19 will start activating and they swell up and then seal around the
- $20 \parallel \text{shaft}$. So basically all the water that was in there was just the
- 21 time that it took for the seal to compress on the shaft and then,
- 22 | you know, once we were able to pump that out that water did not
- 23 | return.
- 24 MR. WISNIEWSKI: All right. Any questions for damage and
- 25 | then we'll go into the propulsion controls?

MR. No questions.

BY MR. WISNIEWSKI:

- 3 Q. All right. So let's go into the propulsion control system.
- 4 | The Rolls-Royce system --
- 5 A. Correct.

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- $6 \parallel Q$. -- that was bought by Kongsberg Maritime.
- 7 A. Correct.
- 8 Q. But we'll refer to it as just Rolls-Royce or whatever you 9 guys are familiar with calling it.
- A. It still says Rolls-Royce on the panels. So it's -- the vessel is fitted with Rolls-Royce Canman touch system. It has -- do you want me to describe the system?
- 13 Q. Please, yeah.
- 14 | A. Okay.
- Q. Describe it, your understanding of it and then what you believe -- you know, what you saw or what was -- when you arrived
- 17 on scene.
- 18 A. Okay. So the system is comprised of -- on this vessel you
- 19 have four waterjets and three controls stations up on the bridge.
- 20 | Each control station or we'll go with the main control station.
- 21 | That's going to be -- you have two panels there. Those panels
- 22 | that you would -- the touchscreens that you would operate all of
- 23 your features as far as clutching in, clutching out, changing from
- 24 primary to primary control, which is a tiller and throttle detents
- 25 or going to a joystick. On that same location you have two backup

panels. On the port side you have two for the port engines and on the starboard side you have two for the starboard engines.

Then on the wing stations, on the port wing station you'll have one control station followed by the throttle detents, a tiller, and a joystick. And then on the starboard wing station you'll have another touchscreen with throttle detents, joystick and a tiller.

What links the port side and the starboard side together is two power sources. You have your A power, which is going to power everything on your port side. So that's going to take care of your port main controls station and your port wing station.

At the main control station you have B power, which is going to take care of your port -- or your starboard, starboard touchscreen and all of your starboard controls. And then on the starboard wing you also have that B power there, which is going to control the display and your starboard controls.

The backup is fed by a completely and separate system, including power supply. That is going to have power from the C battery banks, which are located in the starboard electrical closet. And that's going to send voltage or signals directly to either your steering buckets or your steering nozzles along with a clutch signal for your transmissions and also RPM signal to your main propulsion engines.

- Q. So I have up behind you the touchscreens. It's image --
- A. Correct.

- Q. -- 0362 jpeg, NTSB photos. But -- so these will show, right, the A and B panel? Is that what you're referring to?
- A. Correct. So on the left-hand side of the screen is going to be your A panel and on the right-hand screen is going to be your -- or the right-hand screen on the picture is your B panel. So you have two screens in the main control station. Both of these screens will show you exactly the same from one screen to another. So each screen will show that it's got four waterjets on it. You can toggle between screens and have one screen show something different than the other screen. But as far as functionality they
- Q. So they're identical? It's like a mirror imagine you could put --

show the exact same indication and control.

14 A. Correct.

- Q. -- everything that's on the port side on the starboard screen?
 - A. So there is no -- you can't -- they're completely independent, but they show the same data. They've got data links between them. You can't -- you can go to one screen and say I want this display to show the bucket position. Or you could have that one in harbor mode or whatever you may -- you could have a different screen, but the other screen you could have whatever else you want. But mostly it's always on indication. There's a couple indication menus. Some captains like the one that it comes set up with or they have just another one that looks like the

older system that we have fitted on the Highlands. So you can kind of customize how you want to view the indication. But primarily that is your indication, clutch control, switching from primary -- from your tiller to your -- using your tiller and your throttle detents to your joystick. That's where you're going to make all of those changes.

- Q. And when you're referring to the joystick, are you referring to the joystick that's on the chair, the captain's chair?
 - A. So when I say tiller it's -- that's the one that is on the captain's chair. That is only going to control the steering nozzle between all four waterjets. The throttles will only control -- the throttle detents as I call them -- that's only going to control your RPM and your bucket position.
- Q. So I brought up an image, 0355 jpeg. And this shows the center control between both the captain and the mate's chair. And you're referring to the joystick or that harbor mode, what's that refer to? What are you --
- A. It's the joystick for -- that basically will combine your tiller and your throttle detents into one, one unit. There's a couple functions. The further you push it forward the RPMs will come up and the boat will go forward. When you put it deep to stern, you know, the RPMs will come back up in the stern and the boat will go to stern. There's an access point --
- Q. So I understand it correctly, if you're moving that joystick it's essentially -- you're creating a vector that you would like

to go?

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- 2 A. Correct. So it's a vector control, control. And then
- 3 there's, you know, functionality going sideways and then also
- 4 twisting the knob on top as far as positioning the bow.
- $5 \parallel Q$. And as far as that harbor mode --
- 6 A. Okay.
- 7 \mathbb{Q} . -- can you declutch the engines -- declutch the jet from the
- 8 engine from there, the clutches?
- 9 A. No, you cannot.
- 10 ||Q. So they will always be in gear?
- 11 | A. Once you're, once you're in that --
- 12 | O. Mode?
- 13 A. -- your -- whatever is clutched in is going to be -- stay
- 14 | clutched in. That's not going to have -- that doesn't have
- 15 | function to clutch out engines.
- 16 Q. Okay.
- 17 A. Clutching out your engines would -- there's only -- you know,
- 18 you can do it from the display itself or you can do it from the
- 19 | backup panel. You can also do it remote down in the engine room
- 20 or at the display panel.
- 21 | Q. And so I brought back up the image 362 jpeg where it shows
- 22 the backup controls that are outboard of both of the panels, the
- 23 | touchscreens. And you're indicating they're on a separate,
- 24 | independent battery?
- 25 A. Correct.

- Q. And as far as -- you can declutch the engine, but also increase/decrease the RPM?
- A. Correct.

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used?

- 4 Q. But are you operating the buckets independently from each 5 other or --
- 6 A. Yes. So once you --

neutral and then a stern bucket.

- 7 \mathbb{Q} . -- can you describe that a little bit for us?
 - A. So once you go into backup or one or both, both engines you have -- you depress the buttons that say backup on. Then you have two joysticks showing. The top one is engine and gear related, which is you can go -- you can raise the RPMs, lower the RPMs, which would be the forward and stern motion. And then you've got a left and right on that joystick, as well, where you can clutch in or clutch out. On the lower joystick, that's going to be your maneuvering joystick. That's going to have your port steering nozzle, your starboard steering nozzle, as far as moving it back

and forth. And then also bucket up, which would be a head, bucket

- 19 Q. And in your experience how often have you seen the backup
- A. Use it during drills, training. If there is an issue that,
 you know, that something happens they can go into it. But
 everybody, everybody trains using it. I don't -- I don't know how
 often (indiscernible) --
 - Q. Yeah, you're the engineering -- you're the engineering side

- of the house and thank you for sharing all this and so I don't want you to speculate at all, but I was just curious how much time have you seen this as an engineer on board -- obviously not this vessel, but the New York or the New Jersey, being used?
- 5 A. I only seen it during training --
- 6 Q. Training?

- A. -- and Coast Guard and that's really, really it.
- 8 Q. And how about the harbor mode --
- 9 A. Correct.
- 10 Q. -- that we're talking about? How often do you see that being 11 used on board?
 - A. So it's -- we had that on our previous vessels. We don't primarily use it. All of the captains are proficient in using it, but it just doesn't work for, I guess, our routes. Our captains are trained using the tiller and the throttle detents. That's just how we operate. That's how we've always operated with all of the other boats. But they do use it. They feel comfortable. It is -- it -- I don't want to consider it a backup, but it is another mode of operation. If your tiller went out or your throttle detents went out you can use the joystick. You know, if there was a wire break or an (indiscernible) failure you can, you can go into joystick and, you know, use that as a command station. So use it on the regular? I'm not positive, but I know they have used it.
 - Q. Just curious for what you understand it to be and what you

1 know of the system. So I appreciate that details and explanation.

So going to a little bit now these can modules (PH), these touch

-- when you went on board and your first experience with seeing

4 the screen was out or -- can you go through that with us?

5 A. Yeah. So I went up on the bridge, sitting in the captain's

6 chair and I noticed the main control station A was trying to boot

up. It was a black screen and it had many errors trying to boot

8 | up from a USB card -- wasn't -- it wasn't coming on. I noticed

9 that the -- on the B screen, which is a mirror of what the A

10 | screen would be showing, that booted up. You had the port -- both

11 port waterjets were in the disconnect mode. The port wing station

12 panel showed the same indication as the B main control panel and

13 the starboard wing station showed the exact same thing as B,

14 | showing two waterjets disconnected.

15 | Q. Just to clarify, the two waterjets that disconnected, which

16 ones were they?

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17 $\mid A$. It was port, port main engine 1 and port main engine 2.

18 Q. And did you take pictures of those screens showing that

disconnect or was anyone there taking pictures of those?

A. Yes.

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Q. Yourself and anyone else?

22 A. Myself and Jack Bevins.

23 \parallel Q. All right. And so you saw these screens how they were all

24 | identical; what else did you look at or did you get into at all?

A. I didn't -- I did not touch any of the controls.

- Q. And you probably talked to the captain and the mate. What did they share with you, what they experienced, or what they saw with this; do you recall?
- A. That -- Captain Costello just briefly talked, said that he lost the port, the port engines. He did mention that he wanted to leave the joystick control and then tried going over to the port wing station and then ended up coming back over to the main control station.
- 9 Q. And with that -- the screen that was out, the A screen, of the touch -- the Canman touch --
- 11 A. Correct.

- Q. -- is there anything that you could elaborate on as far as,
 like, their power, their quality power reports, is there anything
 that you --
 - A. So both of the panels, the A panel and the B panel, and their respective wing station, are fed by Rolls-Royce DC to DC converter. So your A power and your B power are completely separate. They come on that vessel they originate in the lazarette. So your port, which is your A power comes from your lazarette and goes up to your DC to DC converter. And your starboard power, B power, comes from the starboard lazarette and goes up to the DC to DC converter. From there you have circuit breakers, F1 and F2, that go to power conditioners that basically even out any spike in power. So there's clean power going to these screens. From the conditioners, they go out to the screens.

F1 I believe is going to your port side, which is going to feed your port, port main station and port wing station. F2 will supply power to your B screen on your main control station and your wing station.

If you were to lose power to say one of those battery banks or the conditioner, both screens would be out. If -- you wouldn't just lose one unless there was actually just a break in the wire going to one of the (indiscernible) that it picks up power off of. But it's common power between both stations as far as port wing, port main and starboard main and starboard wing.

- 11 || Q. And just to clarify this is the 24-volt DC --
- 12 A. Correct.

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- 13 | Q. -- system that's --
- 14 | A. 24-volt DC.
- 15 Q. -- located in the lazarette?
- 16 A. Correct.
- 17 \mathbb{Q} . And what type of conditioners do they have?
- 18 A. I want to say they're Phoenix, Phoenix brand.
- 19 || Q. Ever have any problem with them or any --
- 20 A. No, they have not.
- 21 | Q. -- maintenance issues that's (indiscernible) your system?
- A. They -- no, they -- you actually get alarms for them if it's not clean power. They have -- I believe it's three lights on it, power in good, power out good, and then there's a yellow one that
- 25 | shows that there's a low power.

- Q. Are these the original set of batteries since the vessel was purchased?
 - A. Correct.

- $4 \parallel Q$. So it's pretty much all as designed?
- 5 A. Correct.
- 6 Q. Has anything been changed out on the power side of it?
- 7 A. No, there has not.
- 8 Q. Trickle charger or anything?
- 9 A. Not on, never any of the control, the control side of the power.
- BY MR.
- 12 Q. inspections. How many power supplies?
- A. So you've got three, three power supplies that provide your A
 Power, B power and C power, all 24-volt. So your C power, that's
- 15 the only one located inside the cabin, which is on the starboard,
- 16 starboard electrical closet where the main distribution is, AC distribution.
- 18 Q. I want to talk about the backup controls.
- 19 A. Okay.
- 20 Q. For this particular failure, right, the port stayed as is?
- 21 A. Correct.
- Q. Now if you were at the backup, what would have happened? I
- 23 | mean, what's the process of going to the backup?
- A. So wherever, wherever your last known command to the Rolls-Royce system, it's going to stay there. When you go into backup,

it's going to still be wherever that last known command is. It' going to accept I'm taking control, but I'm staying where your last command was. And then you can manipulate the two levers to change it. And then if -- for instance, if you did come out of backup control it's going to go wherever your primary station that's in control; wherever that is, it's going to automatically go to that.

- Q. Did the captain have any other options, other than backup?
- A. You could have, you could have just emergency stopped right from the bridge. They're located with their respective control panels up there.
- Q. Could he have taken control of the starboard wing at the starboard wing and --
 - A. So if you're to lose A power, that is going to control all of the waterjets and their control systems in primary. So you could have taken control of the vessel on the starboard wing, but your primary, your primary throttles and tiller would have only controlled your starboard side. No matter where you went on that boat, you would have only been able, in primary, only controlled starboard side with your primary controls. So with this it would be just backup.

BY MR. WISNIEWSKI:

Q. So I just want to -- Luke, NTSB -- so you're saying you would only be able to do the primary because of the A bank being down, correct?

- A. A bank is down. You still have B bank.
- 2 | Q. But you've lost -- correct.
- 3 A. Correct.

- Q. Yeah, but I just want to make sure we clarify that, that A bank is down; you have no control over the engine, the buckets on the port, inboard or outboard engine?
- 7 A. Correct.
- 8 Q. But on the starboard bridge wing you would have the same --
- A. You would have normal, normal control through primary on the starboard, starboard side of the vessel on any of the control units.
- 12 MR. WISNIEWSKI: Sorry. Just --
- BY MR.
- Q. So for training purposes and drilling purposes, what kind of drills were done to go into backup?
- A. I believe there was an emergency steering drill, part of the SMS, that actually shows emergency transfer and operating the vessel in backup, which is actually a sign-off for the captain.
- 19 Q. And do you know how often they were conducting these drills 20 or --
- 21 A. That I'm not too sure what the schedule is on that.
- 22 | Q. Okay.
- BY MR. WISNIEWSKI:
- Q. Luke, NTSB again. So my understanding, you're not in charge of that training aspect, right?

A. Correct.

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- 2 Q. Do you give any input into the training?
- 3 A. Yes. So I'll put in points where, okay, we should -- you
- 4 know, add this or have this part of the training side of it and
- 5 then that will be put forth and they'll drill on that or train
- 6 with that material. And then, like I said before, I'll just go on
- 7 the boat and kind of talk to the captains and just go through
- 8 | things. Nothing formally, just I'm on the boats and let's just go
- 9 through some things.
- 10 | Q. And with these (indiscernible) touchscreens --
- 11 A. Correct.
- 12 || Q. -- is there -- has there be any other time where these
- 13 | systems would not reboot or reconnect to the system that you're
- 14 | aware of?
- 15 A. Not to my knowledge there has not been one.
- $16 \parallel Q$. So nothing in Wheelhouse, your preventative maintenance, or
- 17 work orders?
- 18 A. Nothing.
- 19 Q. Have you gone through it since the accident and seen anything
- 20 | I there?
- 21 | A. There's -- there's nothing about the touchscreens going out
- 22 | and not rebooting. Or else you'd see an order for a touchscreen.
- 23 | Q. In the -- just go back to the DC power, the quality of it.
- 24 \parallel If you have a filter on it and DC batteries are, from what I
- 25 | understood, is one of the most cleanest power versus converters.

But have you ever had, like, a power report done on the DC side?

- A. Not since we've done commissioning, or really the engineering
- $4 \parallel Q$. So there was a quality report generated for the DC side of

side of the engineering the system, we haven't done anything.

- 5 it? I know the AC side there's usually a quality report.
- 6 A. Well, during the commissioning I know there is -- there's a
- 7 couple boxes showing about the power that's recorded and I want to
- 8 | say it's in the -- either the HAT or the SAT, which are two -- one
- 9 is a sea trail acceptance test and the harbor acceptance test,
- 10 | that Rolls-Royce Kongsberg will do. It will probably have
- 11 | indication of what the voltages are on that, but after that, no.
- 12 Q. Okay. I just have a couple more here, unless you have others
- 13 | to go into. When you were on board after the accident and went up
- 14 | to the shipyard --
- 15 A. Correct.

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- 16 Q. -- in Nyack, New York, did you have any interaction with the
- 17 | Rolls-Royce rep --
- 18 | A. Yes.
- 19 \mathbb{Q} . -- when you were up there?
- 20 A. Briefly talked to him. I know he did the data dump on the A
- 21 | main screen, B wing station, A wing station. He was able to
- 22 gather the information from there, that he showed that there was
- 23 | the alarm, which you had A main panel failure. I believe it also
- 24 | showed a GUI failure, which is the control system that the
- 25 | touchscreen actually works upon. And then other than that there

- were no other failures for, I want to say, the beginning of -- or the end of May, something like that.
- Q. And just to clarify, what's the GUI failure?

- A. So that's basically the software inside of the, inside of the touch panels that, I guess, ultimately failed and that's where we were getting an A station failure and a GUI failure because it wasn't rebooting.
 - Q. With these (indiscernible) touchscreens failing, would you get anything on the hydraulic over by the captain's chair off to the left side of port side? Would there be any indication on that power panel that was there (indiscernible)?
- A. So there's, there's a few. On the hydraulics themselves
 where it's broken down into each hydraulic power pack unit, you
 will not get, you will not get an alarm. But in the middle of
 that panel you're going to have DC A, DC B okay, joystick failure.
 - Q. I have it up behind you now. It's -(Crosstalk)
 - A. So depending on -- I'm not too sure on this one, but you could get -- the DC okay is monitoring it coming out of the, out of the filter. So I mean, that would be the only one pertaining to any of this that you could get. When I got on the boat there was a bunch of them going off, but that was from shutting down the engines actually on the jets themselves. And then possibly an earth fault, but that could have been just from the water.
 - Q. Okay. But the only one that you would see for the battery

- would be the DC okay?
- 2 A. It would be DC A okay.
- 3 Q. Okay.

- 4 A. Because that's -- so there's no way of -- there's nothing
- 5 monitoring that, but that switch there. You'll get an alarm on
- 6 your B side, but if you lose your A side, your A side is not going
- 7 to have any alarms or store anything because it's off. It doesn't
- 8 have any power. So the only thing would -- you would get that
- 9 alarm on your B side.
- 10 | Q. Would it indicate any type of -- I see up there in port check
- 11 outer 1 on the section on the right --
- 12 A. So on there, you'd get the control failure.
- 13 Q. -- control failure.
- 14 A. Backup supply if C was not working, you would also get that.
- 15 When you do get a disconnect or you're not able to connect you
- 16 | will get a control failure.
- 17 | Q. Is there a printout of these type anywhere in a log for this
- 18 | jet alarm panel?
- 19 A. I do not believe so. May have to check the --
- 20 | Q. Okay.
- 21 A. -- with the engineers.
- 22 || Q. Just curious if you know. If you don't know, that's fine.
- 23 | Something we'll look into. (Indiscernible). I'm wrapping up
- 24 | here, I'm not -- so when you were (indiscernible) you were able to
- 25 get everything off the -- except the one (indiscernible) the

primary the A unit that was down?

A. Correct.

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- Q. You couldn't get any history or download off of that one?
- 4 A. I didn't do anything with it. That was the Kongsberg 5 representative that was doing it all.
- 6 Q. Yeah.
- 7 A. But he did mention that he was not able to get any 8 information from that screen.
- 9 Q. Thank you. And then was there anything else that was
 10 discussed with that screen as far as what caused it, what could
 11 have --
- A. There was -- we couldn't -- I mean, just -- you know, us
 talking we couldn't, we couldn't come up with anything that would
 cause it, you know, between myself and the representative that was
 sent from Kongsberg. He wasn't speculating on what could have
 caused it.
 - Q. Yeah, didn't want to go into the -- any speculation, but just open discussion on did they (indiscernible) wires, did he look at other aspects, you know, any loose connections?
- A. He didn't -- I don't believe he went underneath the dash. He didn't do anything but connect through the Ethernet ports and take it off of the screens that had power to it, or were booting up.
- MR. WISNIEWSKI: I'm winding down on questions. I think that's all I really have. Do you have any others?

25 MR. No.

MR. WISNIEWSKI: Okay. If there's any other clarifications you want to provide or anything, but I'll give you this opportunity to share anything else that you would like to share with us, something that maybe we didn't talk about today that you want to share, that you want us to look at -- into for this investigation? MR. ACHILLE: I'm, I'm fine. MR. WISNIEWSKI: All right. That being said, thank you for your time. I'm going to conclude this interview. The time is 1325. (Whereupon, the interview was concluded.)

CERTIFICATE

This is to certify that the attached proceeding before the

NATIONAL TRANSPORTATION SAFETY BOARD

IN THE MATTER OF: ACCIDENT OF THE COMMODORE FERRY

IN BROOKLYN, NEW YORK

ON JUNE 5, 2021

Interview of James Davis

ACCIDENT NO.: DCA21FM029

PLACE: Staten Island, New York

DATE: June 15, 2021

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

Christy Behlke Transcriber



National Transportation Safety Board

Washington, D.C. 20594

Transcript Errata

Subj: Transcript Review Request for: Loss of propulsion control and grounding of M/V Commodore at Bushwick Inlet, New York, on June 5, 2021.

Accident No.: DCA21FM029

To: Mr. Brian Achille

Dear Mr. Achille,

The enclosed transcript of your interview on June 15th, 2021 is provide for your review and comment to ensure its accuracy. It is not for public release.

The transcript is investigative information of the National Transportation Safety Board (NTSB) created as part of the NTSB's investigation into the loss of propulsion control and grounding of M/V Commodore at Bushwick Inlet, New York, on June 5, 2021 (NTSB Accident No. DCA21FM029).

NTSB regulations prohibit the public release of investigative information prior to release by the NTSB without the permission of the NTSB Investigator in Charge (IIC). See 49 C.F.R. § 831.13(c). The IIC has not approved public release of this information at this time. Therefore, we request that you refrain from any further dissemination of this transcript.

Kindly review this transcript for accuracy and provide corrections, if any, in the attached table. Please print, sign, and return it to me via email by **August 2**nd, **2021.** Please return or destroy the transcript after providing your comments.

Comments must be returned no later than August 2nd, 2021. Requests for an extension of this deadline must be in writing and received prior to the due date. If comments are not received by the due date, we will consider the transcript to be final without comment.

Thank you in advance for your attention to this matter. If you have any question regarding the process, please feel free to contact me.

Best Regards,

Luke Wisniewski

Sr. Marine Investigator
Office of Marine Safety
National Transportation Safety Board
490 L'Enfant Plaza East, S.W.
Washington, DC 20594

Office:



National Transportation Safety Board Washington, D.C. 20594

Transcript Errata

TABLE OF CORRECTIONS FOR TRANSCRIPT INTERVIEW WITH: BRIAN ACHILLE **RECORDED ON JUNE 15, 2021**

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NO CORRECTIONS NEED.	
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