

In the Matter Of:

National Commercial Fishing Vessel Safety

ADVISORY COMMITTEE MEETING VOL. I

April 09, 2024



**Vet Command
14810 Brick Road
Carson, VA 23830**

NATIONAL COMMERCIAL FISHING VESSEL SAFETY

ADVISORY COMMITTEE MEETING

FERNANDINA BEACH, FL

HAMPTON INN & SUITES

19 SOUTH 2ND STREET

FERNANDINA BEACH, FL

APRIL 9, 2024 - APRIL 11, 2024

VOL. I OF III

VETERANS COMMAND, LLC

Reporter@vetscmd.com

678-857-6121

1 APPEARANCES

2 MEMBERS PRESENT:

3 Gerald Dzugan, Chairman

4 Matthew Alward, Vice Chair

5 Christopher B. Daughtry, Member

6 James G. Kelly, Member

7 Greg Londrie, Member

8 Eric O. Rosvold, Member

9 Michael W. Theiler, Member

10 David A. Turner, Member

11 Frank A. Vargas, Member

12 Kristian L. Boehmer, Member

13 Barbara A. Hewlett, Member

14 Thomas Dameron, Member

15 Michael Terminel, Member

16 ALSO PRESENT:

17 Captain Mark Neeland, DFO

18 John Wendland, ADFO

19 Angel Calderon, Technical Advisor

20 Samantha Case, NIOSH

21 PUBLIC REGISTERED/PRESENTERS:

22 Gary George

23 Walter Hoppe

24 Omar La Torre Reyes

25 Mike Rudolph

- 1 John Sherlock
- 2 Trevor Cowan
- 3 Brian Eichelberger
- 4 Stephanie Groleau
- 5 Patrick Gallagher
- 6 Katie Knifong

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

Contents

National Commercial Fishing Vessel Safety Advisory
Committee Meeting, Tuesday, April 9, 2024:

PAGE

Roll Call	-
Declare Quorum	7
General Admin - Rules of Engagement	6
Opening Remarks	14
Introduction of Members	8
FACA Long/Short Form	25
Elect Chair and Vice Chair	30
Old Business	30, 37
New Business	55
Review Agenda/Goals	14
Personal Locater Beacon/Rescue 21/ New Tech Shipboard Comms Presentation	80
Mariner Credentials Presentation	125
Life Raft Servicing Intervals Presentation	
Marine Casualty Case Review; incident data	226
Public Comment	280
Final Day One Thoughts	285

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

P R O C E E D I N G S

(9:00 a.m.)

WELCOME

MR. WENDLAND: Welcome everybody. Welcome to the third National Commercial Fishing Safety Advisory Committee. It's nine o'clock, so we will kick this meeting off. Appreciate everybody showing up. I know -- I want to recognize the folks coming from Alaska to travel the long flights and just, you know, being here and getting through some of that. And it's an early morning for you. We recognize that. So, thank you.

For those of you that don't know me, my name is Jonathan Wendland. I work at commercial -- Coast Guard Headquarters -- excuse me -- under the Commercial Fishing Vessel Safety Program, and that falls under the Commercial Vessel Compliance Office. And the head of our office is the DFO of this committee, Captain Mark Neeland. And I just want to say as you all can imagine, or may or may not know, Captain Neeland is responsible or oversees, not just fishing vessels, but towing vessels and container ships, so as you can imagine, there's a lot of things in the news right now, there's a lot of things going on. So, his

1 responsibility and oversight is broad. So, we
2 appreciate him being part of this and taking the
3 time. Captain, thank you for that. We know you're
4 extremely busy.

5 Just want to give everybody a heads up, if you
6 would please, so we don't disrupt the meeting,
7 could you just check your phones and electronics to
8 silence any -- any alarms that you have or -- or
9 sounds there. Again, just a reminder for the
10 committee that these mics are hot, so we ask when
11 you're not talking to turn them out.

12 But just a few admin things before we get
13 going. So, the hotel, there's -- just straight out
14 this door, there's -- there's a couple heads. The
15 restrooms are right there. If there's an
16 emergency, we can go out to the right, out the
17 front, or we can go on to the left. So, two exits
18 from this room.

19 Also, just want to let everybody know this
20 meeting has a court reporter, so everything will be
21 on the record, and those minutes will be posted on
22 our web page when we get those -- the transcription
23 back.

24 GENERAL ADMIN - RULES OF ENGAGEMENT

25 MR. WENDLAND: So, committee members recall

1 that this -- this meeting is through Robert's Rules
2 Robert's Rules Simplified, so all questions or
3 requests to speak flow through the chair. So, the
4 chairman of this committee is Mr. Jerry Dzugan.
5 Vice Chair, of course, is Matt Alward. And so, if
6 you would like to speak, it would be, Mr. Chairman,
7 my name is Jonathan Wendland. I'd like to request
8 to speak on this topic. Please remember to state
9 your name first through the Chair, and the Chair
10 will recognize you in accordance with Robert's
11 Rules Simplified.

12 QUORUM DECLARED

13 I do note that we do have a quorum, so we're
14 required to have at least 10, and Mr. Kelly did tap
15 me on the shoulder. He had a slight emergency
16 here. He said he would be back in about 30
17 minutes, so he is present So just want that on the
18 record, as well, as we go around for the roll call.

19 So, every day we ask all members and the
20 audience to sign in on the sign-in sheets. They're
21 on that side table over there. So, every -- every
22 morning when you come in, just sign those, and
23 those are posted on our web page as well. And
24 speaking of our web page, you can get to it by
25 Googling USCG CVC3, and it'll be the first item

1 that comes up. And that's where you can find
2 all -- all the meetings that have happened since, I
3 believe, 2010, and further information on this
4 committee is on that web page as well. And that's
5 for the folks that have read this on the
6 transcription.

7 So, I think we have a good meeting set up for
8 you today. It's going to entail, essentially, nine
9 new tasks and one continuation of a task.
10 Essentially rather than read the entire agenda, the
11 agenda is on the web page. The committee members
12 have it, and there are a few printouts on that side
13 table too, if you'd like to see the agenda. But
14 essentially, the agenda talks about the tasks, the
15 competency certificates, merchant mariner
16 credentials, life raft servicing, special
17 recognition and awards, fitness for duty with drug
18 and alcohol use, fatigue, and sleep deprivation.

19 INTRODUCTION OF MEMBERS

20 So, at this point in time, I think what we'll
21 do is we'll go around first with the members to
22 introduce themselves, have that on record. And
23 then we will also open it up -- we'll pass around a
24 remote mic for the -- for the folks in the room to
25 introduce yourselves as well.

1 Yes, sir.

2 MR. LONDRIE: Greg Londrie, from Brownsville,
3 Texas. I'm involved in the commercial shrimping
4 industry, vessel owner, as well as a shipyard and
5 supply store.

6 MR. DAUGHTRY: Good morning. Ben Daughtry,
7 from Marathon, Florida, Florida Marine Life
8 Association, vessel owner/operator.

9 MR. HOWLAND: Good morning, Nick Howland from
10 Jacksonville, Florida. And let me say welcome to
11 the Jacksonville area and everybody. I represent
12 the manufacturing of marine safety products. I'm
13 the Board's representative from that niche.

14 MR. VARGAS: Frank Vargas. I'm from Seattle,
15 Washington. I'm the compliance officer for the
16 company and manage seven factory trawlers in
17 Alaska.

18 MR. TURNER: Dave Turner from Seattle,
19 Washington. Naval Architects (indiscernible).

20 MR. ROSVOLD: Eric Rosvold, Petersburg,
21 Alaska, commercial fishermen.

22 MR. ROSVOLD: Good morning, everyone. As I
23 mentioned earlier, my name is Captain Mark Neeland.
24 I am the Office Chief for Commercial Vessel
25 Compliance at Coast Guard Headquarters and also the

1 DFO, designated federal officer.

2 VICE CHAIR ALWARD: Matt Alward from Homer,
3 Alaska, commercial fisherman.

4 CHAIR DZUGAN: Jerry Dzugan from Sitka,
5 Alaska, trainer, Alaska Marine Safety Education
6 Association.

7 MS. HEWLETT: Barbara Hewlett from Marathon,
8 Florida, retired Coast Guard vessel examiner and
9 own commercial fishing boats.

10 MR. DAMERON: Thomas Dameron, Philadelphia,
11 PA. What do I do?

12 MS. HEWLETT: Just pick one.

13 MR. DAMERON: Yeah, pick one. Government
14 relations and fishery science liaison
15 (indiscernible).

16 MR. BOEHMER: Kris Boehmer, Old Town, Maine.
17 My first life was a fisherman, and now I work in a
18 commercial fishing industry for Brandon Brown as an
19 underwriter and claims specialist for the insurance
20 industry.

21 MR. TERMINEL: Mike Terminel, Alaska Survey
22 Associates. I'm a marine surveyor, also Society of
23 Credit Marine Surveyors, Pacific Regional Director.

24 MR. THEILER: Mike Theiler, commercial fishing
25 in New London, Connecticut.

1 MR. WENDLAND: Thank you everybody. And now
2 for -- for the audience, Coast Guard and members of
3 the public.

4 MR. LA TORRE REYES: Good morning. My name is
5 Omar La Torre Reyes. I'm with the Office of
6 Investigations and Casualty Analysis with the Coast
7 Guard.

8 MR. GALLAGHER: Good morning. My name is --
9 my name is Patrick Gallagher. I work in the Office
10 of Inspector Management, Communication Policy.

11 MS. GROLEAU: Good morning. My name is
12 Stephanie Groleau. I work in the Lifesaving and
13 Fire Safety Division in Coast Guard Headquarters,
14 and I'm a subject-matter expert for survival craft
15 and servicing here today.

16 LT GEORGE: Good morning, everyone.
17 Lieutenant Gary George from USCG 5th District,
18 Portsmouth, Virginia. I'm a Marine Safety Officer
19 standing in for the 5th District Coordinator
20 position.

21 MR. WILWERT: Good morning, everyone. I'm
22 Scott Wilwert. I'm the Coast Guard District 17 in
23 Juneau, Alaska Fishing Vessel Safety Coordinator.

24 MR. RUDOLPH: Mike Rudolph from the Coast
25 Guard, District 13 in Seattle.

1 MS. KNIFONG: Katie Knifong, vessel safety,
2 Trident Seafoods.

3 MS. CASE: Good morning, everyone. Samantha
4 Case from the National Institute for Occupational
5 Safety and Health.

6 MR. EICHELBERGER: Good morning, everyone.
7 I'm Brian Eichelberger from the Office of Merchant
8 Mariner Credentialing at U.S. Coast Guard
9 Headquarters.

10 MR. SHERLOCK: Good morning. John Sherlock,
11 8th Coast Guard District, New Orleans, Louisiana
12 Commercial Fishing Vessel Safety Coordinator.

13 MR. HOPPE: Good morning. Walter Hoppe with
14 the 7th District out of Miami, Florida.

15 COMDR ROBINSON: Good morning. I'm Commander
16 Diana Robinson. I'm out of our local office here
17 in Sector Jacksonville, so kind of the hosting
18 unit, if you would. Captain Espina-Young (ph)
19 sends her regards, and I'm representing her. It --
20 I just have to make a quick comment that it
21 was -- it's really neat to -- to be here in the --
22 in the room with so many different diverse regions.
23 In my Coast Guard career, I've been stationed up in
24 Juneau, Alaska, in Corpus Christi, so I -- I heard
25 Brownsville. And, also, I'm from the Pacific --

1 Pacific Northwest myself, and I -- I love to eat
2 fish. My kids love to eat fish. And, you know,
3 from -- from being a Coast Guard member for search
4 and rescue in Alaska, we couldn't watch assets fast
5 enough. And so, we relied on the commercial
6 fishing vessel traffic nearby to often help save
7 people, and I just -- I have a special place in my
8 heart for -- for commercial fishing vessels.

9 The first time I -- I sailed on one, I said to
10 the captain -- he said how -- how's it going? What
11 do you think of this? I said, It's frickin' cool.
12 And -- and he said, you know, what it pretty much
13 stays -- stays cool. So, anyway, I -- I applaud
14 what you do. And if you need something from --
15 from the local office here, please don't hesitate
16 to ask. Thanks.

17 MR. WENDLAND: Great. Thank you, Commander.

18 Did we miss anybody? Angel?

19 MR. CALDERON: Angel Calderon,
20 (indiscernible). Angel Calderon, CVC3. Thank you.

21 MR. WENDLAND: Thank you, Angel. Thank you.
22 And you know, Commander brings up a good point that
23 I didn't mention, and I just want to because we are
24 in Fernandina -- Fernandina Beach, Florida, and
25 this is a big shrimping community. So, we choose

1 these locations around the country, and we try to
2 hit spots that enable the public to attend and
3 participate. So, there actually is a fisherman's
4 museum here or a shrimping museum, I should say,
5 just like a block away. So, if you have the
6 opportunity, you can check that out. So, it's a
7 beautiful location, and I hope -- I hope everybody
8 enjoys it.

9 At this time, Captain, I'd like to pass it to
10 you, if you have any opening remarks.

11 OPENING REMARKS

12 CAPT NEELAND: Yeah. Thank you, Jon. So,
13 first of all, welcome everyone to our -- our spring
14 National Commercial Fishing Vessel Safety Advisory
15 Committee meeting. It's great to see everybody
16 here. We have Admiral Arguin, the Assistant
17 Commandant for Prevention and Captain Beach, the
18 5PC Compliance, both are unable to make it, but
19 they send their regards. And we hope to have them
20 at one of our next upcoming meetings.

21 REVIEW AGENDA/GOALS

22 For the agenda, we brought in -- we have a
23 number of good presentations from the Coast Guard
24 side, and a number of folks here. I'd just like to
25 kind of highlight and recognize them. Mr. Patrick

1 Gallagher is from CG672, and he'll be discussing
2 PLDs, Rescue 21, and other communication
3 technologies. And he will be here for the majority
4 of the meeting. Mr. Brian Eichelberger from the
5 Merchant Mariner Credentialing Office, CG-MMC, is
6 here. He'll talk and he's available to answer
7 questions and -- as you look at any tasking related
8 to that. Ms. Stephanie Groleau is from ENG-4.
9 She's our resident expert on life rafts, servicing,
10 and approvals, so again, please take advantage of
11 her expertise and knowledge while she's here.

12 And again, as with our last meetings, we have
13 Mr. Omar La Torre Reyes is here to discuss the
14 investigations and was in the pre-read. And he's
15 here, available to answer any questions you have.
16 Once again, the presenters are here for the
17 meeting. They're here for your benefit. For
18 putting tasks on the agenda, my goal is to give you
19 experts that can help you understand how the Coast
20 Guard does things and be able to answer questions
21 and help assist you as you as committee work at the
22 tasking and make recommendations and moving
23 forward. So, if there's other experts that we can
24 bring in in the future, please don't hesitate to
25 ask, and I will work to try to support that as we

1 work on our tasking.

2 Prior to this meeting on the federal register,
3 as required, we always publish our notice. This
4 one, unlike our other ones, garnered a large
5 attention. As of this morning there were 85
6 different comments on there. I actually went
7 through and read all of them. So first of all,
8 thank you to the public that went in and submitted
9 all their -- their comments. There are a large
10 number of insightful and helpful comments that were
11 posted. And so one, I appreciate that public
12 engagement. That's why the Fishing Advisory
13 Committee is published on federal register to open
14 that that public dialogue.

15 I must comment though there were a few
16 colorful comments, which are also still
17 appreciate -- appreciate it. I encourage -- once
18 again, we encourage public participation because
19 the more the public engages and industry engages
20 can help ensure that we as the committee -- or you
21 as a committee can really advance to make sure
22 we're representative and hopefully developing the
23 best solutions and recommendations as we move
24 forward trying to advance the work of "FISHSAC"
25 committee as outlined in the charter.

1 As I read through a bunch of public comments,
2 I didn't want to just make a -- try to address some
3 misunderstandings in the public comments. Just to
4 ensure the public is clear, a number of our tasks
5 are really based off recommendations for
6 investigations. As far as the -- as you're all
7 familiar, Coast Guard, anytime there's a marine
8 casualty, will conduct an investigation. Following
9 from that investigation, there are often
10 recommendations that are made. Those
11 recommendations ultimately are routed up to Coast
12 Guard Headquarters, and they try to evaluate what's
13 the best course of action to take following those
14 casualties.

15 The real goal is to ultimately try to prevent
16 reoccurrence of those casualties and try to prevent
17 additional, future loss of lives and in the future.

18 At Coast Guard Headquarters, we always review
19 those investigations and try to determine what the
20 most appropriate Agency action is moving forward.
21 As we've worked through the fish committee --
22 "FISHSAC," we've chosen to take a lot of -- a lot
23 of these recommendations all associated with
24 fishing vessels and -- and share them with the
25 committee so you could see the types of

1 recommendations, and we can get the insights from
2 industry that we don't necessarily have internal to
3 the Coast Guard. You have experiences and
4 perspectives that can kind of help shape us and
5 educate us and help make sure organizationally
6 we're moving in the right direction. So, really
7 the -- the sharing of these recommendations and
8 this tasking is really to improve transparency, and
9 as I mentioned earlier, ensure that we're on the
10 right path to really advanced fishing vessels and
11 advance fishing vessel safety.

12 Reading through comments, it was clear that a
13 number of people believe that there's some
14 immediate regulatory projects on the horizon. To
15 be clear, there is not any immediate regulatory
16 projects. Again, this is recommendations made from
17 casualties, and we're looking for the input and the
18 perspectives of all of you on "FISHSAC." So,
19 those -- those perspectives are really useful and
20 helpful.

21 If anyone ever has any questions about what's
22 on the current regulatory project for the Coast
23 Guard, there is a unified agenda that can be viewed
24 at reginfo.gov. You can even Google or use
25 whatever search engine you like and search U.S.

1 Coast Guard unified agenda, and I'll actually list
2 what is currently published and being worked on
3 from the regulatory project for the Coast Guard.
4 There were a number of concerns about the Coast
5 Guard not taking part of the economic analysis. If
6 in the future it'd be helpful, I can always bring
7 in somebody from Coast Guard reg. who can talk
8 about the rulemaking process. But just to hit it
9 at a super high level, any role includes an
10 economic analysis, and there's a bunch of
11 economists on the Coast Guard team that will
12 actually go out and do economic analysis because
13 that is a part of the rulemaking process as a way
14 ultimately as the pros and cons of any rulemaking
15 is weighed prior to actually becoming regulation.

16 There's always, also -- unless the statute --
17 unless a law is passed that makes a regulation
18 self-executing, which allows us, basically, to
19 forego public comment period, any rulemaking -- or
20 reg. project typically involves an open comment
21 period. And if additional time is needed, you can
22 always request the Coast Guard -- in fact, there is
23 one right now on cybersecurity which there's been
24 requests, and the Coast Guard will very likely
25 extend the comment period for that. So, there are

1 opportunities for the public to comment. And If
2 there's not enough time to feed that opportunity --
3 feed that information to the Coast Guard so we can
4 look to potentially extend, if necessary, comment
5 periods to provide public additional time to
6 comment.

7 As far as the tasking, I just wanted to kind
8 of remind the committee, although we set three days
9 aside to work through the tasking and for you to be
10 able to work here. There is no deadline to deliver
11 tasking. So, if you need more time -- in fact, we
12 have one open tasking from the communication group
13 that's continued from last meeting. If you need
14 more time to really evaluate an issue, by all
15 means, I encourage the committee to take the time
16 it needs to make the best recommendations as it
17 moves forward to -- to the Coast Guard.

18 So, this past January I attended the IFISH6,
19 which is an international conference hosted at the
20 FAO, food net -- I'm a -- sorry, UN Division of
21 Food and Agriculture Organization. And it was a
22 really good conference, which focused on
23 discussions to ensure safety of fishing vessels and
24 aquaculture industry. There were representatives
25 from number of fishing vessel companies, industry,

1 governments, the International Maritime
2 Organization, as I mentioned, the Food and
3 Agriculture Organization, and ILO, International
4 Labor Organization.

5 As we went through the IFISH6 conference, it
6 was really fascinating just to listen to all the
7 diversity of operations around the world and all
8 the challenges across fisheries around the world
9 and the range of operations as they're trying to
10 improve safety of fishery. People involved in the
11 different fishery operations around the world,
12 everything ranging from dugout canoes that are
13 literally hand propelled -- propelled by hand all
14 the way to the factory fish trawlers and some of
15 the most advanced fishing technologies out there.

16 It really highlighted the challenges any
17 regulatory body has in trying to identify the right
18 solutions, whether it was fishermen in remote
19 villages in Africa that can barely afford a life
20 jacket to fishermen off Nova Scotia where they're
21 testing using PLBs to rapidly recover and --
22 fishermen prior to -- prior to them succumbing to
23 hypothermia. Those challenges, although on a
24 worldwide scale, I would argue, are very much
25 apparent here in the United States. Although, I'm

1 not aware of anyone really fishing commercially
2 with a dugout canoe, you do have a number of folks
3 in skiffs and other small fishery operations and
4 we've got some very large industry -- industrial
5 fishery operations here in the United States, as
6 well.

7 So, although IFISH6 had a different focus, a
8 little bit more research focus, I do like to
9 highlight that. It does really continue to
10 highlight the challenges that we face as the Coast
11 Guard and trying to regulate the fishing industry,
12 but also highlight the challenges that you as a
13 committee and -- face as you try to make
14 recommendations given the diversity and wide array
15 of -- of the fishing industry that's out there.
16 The only way you can be successful is to have the
17 diversity of input of all of you that come from
18 different backgrounds and different fisheries and
19 different experiences, as well as it is from the
20 public from their backgrounds to help ensure that
21 we are on the right path to improve safety and
22 advance all the goals of our charter within the
23 National Commercial Fishing and Safety Advisory
24 Committee.

25 So again, this agenda that we have today, I

1 really look forward to it. There's a mix of
2 recommendations for investigations. I've deferred
3 a bunch of them to our next meetings, but I didn't
4 want to overwhelm the committee. I appreciate the
5 recommendations from the committee. We
6 incorporated a number of them into today's agenda
7 or the agenda for this. Some of them we're going
8 to defer and look to address in the future. I'm
9 trying to strike the right balance as we move
10 forward as a committee striking both addressing
11 recommendations but also areas which you are
12 interested in, and I continue to look forward to
13 try to strike that right balance and advance all of
14 those areas.

15 Again, as I mentioned earlier, our goal really
16 is to be transparent and get input from both
17 industry and the public to make sure that we're
18 moving in the right direction on all of our topics
19 that we're -- all of our areas that we're
20 chartered -- and charted with under our -- our
21 charter for the committee.

22 So, to wrap up. It's great to see you all
23 here in Jacksonville. It is -- thank you for your
24 time that you're going to give us -- that you've
25 already given us and will give us in the future.

1 And I really look forward to all the discussions
2 this week as we really move forward and advance the
3 topics we're going to talk about. So, thank you.

4 MR. WENDLAND: Thank you, Captain. And just a
5 couple of notes on that. In regard to the comments
6 that were -- that were sent to us are provided in a
7 document that Captain mentioned, the 85, in
8 addition to that, there was four emails that were
9 sent to me directly, and I just want to let those
10 folks know, which I tried to do via email, that I
11 would put those comments in front of the committee.
12 So, I sent all you those four comments, so I just
13 wanted to reflect that. Even though they were not
14 able to get it into their docket, the members have
15 had a chance -- they did receive it via email.

16 Also, I was remiss. I just wanted to let
17 everybody know we're -- we're missing one person
18 here today who's typically at these meetings, which
19 is my boss, Mr. Joe Myers. Joe was not able to
20 make this meeting. He had a situation that came
21 up, and he's -- he's doing the right thing getting
22 that addressed, and he sends his regards. He's --
23 he's well but was not able to attend this meeting.

24 And, also, just a slight difference from past
25 meetings to this meeting, we have the coordinators

1 who oftentimes give updates on their presentations,
2 and because of the -- the taskings of the other
3 four presentations we've lined up, we're going to
4 give an opportunity, if there's time at the last
5 day -- if there's time and if so desired, they can
6 do the presentations at that time if there's any
7 extra time and the committee wants to -- wants to
8 hear those. It'll be a possibility at -- in the
9 agenda that -- if that surfaces. They will be
10 online, those -- those presentations. We'll get
11 those up. So, if that time doesn't exist, at least
12 they'll be on the -- they'll be on our web page.

13 FACA LONG/SHORT FORM

14 I do want to mention that this is, as most
15 people know, it's under the FACA Rules, and I just
16 want to mention to the Coast Guard folks in the
17 room, as Captain Neeland, I think, I spoke about
18 last meeting and also the meeting before that,
19 we're here not to provide influence; we're here to
20 provide guidance, as far as references and whatnot.
21 This is the public's opportunity to tell the Coast
22 Guard what they think. We should not be, you know,
23 advising the public or the members what we think.

24 This is -- this is what the FACA system is all
25 about. So, we're listening to the public on that.

1 So, hopefully -- it's a very hard thing to do, you
2 know, in the subcommittee meetings, because we all
3 have our personal beliefs and we've been trained in
4 certain things, but, you know, it's very difficult
5 for me to do that as well, but we just tried to not
6 influence in any -- any regard. And Captain, I
7 don't know if you want to have any extra thoughts
8 on that, or if you think I covered that. Yes, sir.

9 Also, I didn't mention, but I want to mention
10 that there are public comment periods every day.
11 And today I think it's scheduled around three
12 o'clock. So, every day there's a chance for the
13 public, if so, to comment on anything that's
14 happening in this meeting or what they feel. So,
15 we -- we've set aside that time frame that -- those
16 time frames within the agenda.

17 SWEAR IN NEW MEMBERS

18 And so at this point in time in the agenda, I
19 think we do have one member who sits on the
20 Jacksonville Council who has a mandatory
21 requirements to attend those meetings who was not
22 able to attend the first two meetings. So,
23 Mr. Howland will need to be sworn in. So, Captain
24 at this time, I'd like to pass it back to you for
25 the swearing in of Mr. Howland.

1 CAPT NEELAND: All right. Thank you, Jon.
2 So, at this time I'll ask Mr. Howland to stand and
3 raise your right hand and repeat after me. I,
4 state your name --
5 MR. HOWLAND: I, Nick Howland --
6 CAPT NEELAND: -- do solemnly swear --
7 MR. HOWLAND: -- do solemnly swear --
8 CAPT NEELAND: -- that I will faithfully
9 execute the duties --
10 MR. HOWLAND: -- that I will faithfully
11 execute the duties --
12 CAPT NEELAND: -- of a member of the National
13 Commercial Fishing Vessel Safety Advisory
14 Committee meeting.
15 MR. HOWLAND: -- as a member of the National
16 Commercial Fishing Safety Advisory Committee.
17 CAPT NEELAND: Thank you. And will, to the
18 best of my ability --
19 MR. HOWLAND: -- and will to the best of my
20 ability --
21 CAPT NEELAND: -- fulfill and carry out --
22 MR. HOWLAND: -- fulfill and carry out --
23 CAPT NEELAND: -- the policies and purposes --
24 MR. HOWLAND: -- the policies and purposes --
25 CAPT NEELAND: -- of the Federal Advisory

1 Committee Act --

2 MR. HOWLAND: -- of the Federal Advisory
3 Committee Act.

4 CAPT NEELAND: I take this obligation
5 freely --

6 MR. HOWLAND: I take this obligation freely --

7 CAPT NEELAND: -- and without mental
8 reservation or purpose of evasion, --

9 MR. HOWLAND: -- and without mental
10 reservation or purpose of evasion, --

11 CAPT NEELAND: -- so help me, God.

12 MR. HOWLAND: -- so me, God.

13 CAPT NEELAND: Thank you.

14 MR. HOWLAND: Thanks.

15 UNIDENTIFIED SPEAKER: Until death do us part.

16 CAPT NEELAND: I need to figure out how to
17 shorten the name. That's a mouthful.

18 MR. WENDLAND: Thank you, Captain. Also, at
19 this point in time, I think it's appropriate to
20 move to the ethics, conflict of interest statement.
21 So again, that's -- we have three SGE's, which are
22 known as special government employees on this
23 committee, and this -- this ethics statement is in
24 regard to them.

25 CAPT NEELAND: All right. Thanks again, Jon.

1 So, as stated in the agenda, at this meeting, we
2 will be continuing tasks 11-23 and receiving new
3 tasks 14 through 24 for calendar year 2024. Tasks
4 numbered 15-20 -- -24 and 16-24 are particular
5 matters for the purpose of criminal conflict of
6 interests statute. You are reminded that if you,
7 an immediate family member, an organization for
8 whom you serve as an officer, director, trustee,
9 partner, or employee, a prospective employer, or a
10 general business partner has a financial interest
11 that would be affected by the outcome of this
12 particular matter, you must disqualify yourself
13 from participating in discussions, deliberations,
14 and voting on that issue; however, note that an
15 exemption to this rule allows for the
16 participate -- participation of members if the
17 financial interest is in the member's non-federal
18 employer -- if it is in the member's non-federal
19 employer if the matter will not have a special or
20 distinct effect on the employer, other than as a
21 member of the employer's industry. While some of
22 the tasks could pose a conflict, they have been
23 evaluated by the Coast Guard's ethics attorney and
24 none will have special or distinct effect upon any
25 of this special current government employee FACA

1 committee members. And each SGE have been reviewed
2 and determined applicable -- able to fully
3 participate. Sorry, that was a mouthful.

4 MR. WENDLAND: Thank you, Captain. In short,
5 basically, what that means is all SGEs have been
6 vetted, and there's no concern for your
7 participation. So, it's a long legal thing that we
8 have to go through every -- every meeting. So,
9 that's what that's all about.

10 OLD BUSINESS

11 Okay. So at this point in time, I'd like to
12 move to the old business section on the agenda.
13 And a couple updates in the old business. Mr. --
14 Mr. Alward.

15 ELECT CHAIR AND VICE CHAIR

16 VICE CHAIR ALWARD: I just -- Matt Alward for
17 the record. I -- just for the public's awareness
18 since it does say elect chairperson and vice chair
19 on the agenda, do you want to just address that
20 real quick for the public record?

21 MR. WENDLAND: Thanks, Matt. Yeah, we spoke
22 about this the -- the 0800 session. So, Article
23 IV, Section 1 of our bylaws state that the chair
24 and the vice chair will be elected each calendar
25 year. So, there was input from the committee at

1 the 0800 meeting that that election will take place
2 in the -- at our next meeting. So, within the same
3 calendar year, but at the next meeting. Okay.
4 very good.

5 So onto the on the old business section. Did
6 anybody have any question?

7 VICE CHAIR ALWARD: So, Jon, I think for
8 technical clarification, since they're supposed to
9 be elected, I think we still technically need to
10 hold an election.

11 MR. WENDLAND: Well, that election would be in
12 the -- in the next meeting, correct? So, the
13 election for the chair and the vice chair in the
14 calendar year would be at the next meeting.

15 VICE CHAIR ALWARD: We have not held an
16 election for this calendar year, so we -- we still
17 technically need to do that.

18 CHAIR DZUGAN: That's the way I read that,
19 too.

20 MR. WENDLAND: Okay. My -- my understanding
21 is -- yeah, what I was thinking on that, and no
22 issues on my side. Since -- since it is this
23 calendar year, and the election would take place in
24 the same calendar year, that would meet that
25 requirement. But it's up --

1 VICE CHAIR ALWARD: It's his call.

2 MR. WENDLAND: Yeap. Absolutely.

3 CAPT NEELAND: I'll ask the committee, does
4 anyone have an objection if we just delay the
5 election until this fall for next calendar year --
6 or for this calendar year?

7 UNIDENTIFIED SPEAKER: No objection.

8 CAPT NEELAND: I'll ask for a show of hands.
9 Does anyone object to not holding the election
10 today?

11 MR. BOEHMER: I have a question.

12 CAPT NEELAND: Yes?

13 MR. BOEHMER: What's the purpose of delaying
14 it? Why don't we just get it done with it? What's
15 the -- why are we delaying it?

16 VICE CHAIR ALWARD: Matt Alward. Well, we
17 could, but we're still going to have an election in
18 the fall, as we discussed in closed session
19 earlier. It's not really right to have an election
20 at the beginning of the meeting, and all of a
21 sudden there'd potentially be new chair having to
22 run a meeting. So, the intent is to hold it every
23 fall so that there's a chair in place to prepare
24 for the next spring meeting. So, if we do it now,
25 we're going to do it again at the next meeting as

1 well, just for the record.

2 CAPT NEELAND: So, if there is no objection
3 from any committee member, we will defer the
4 election until the end of next meeting, and we'll
5 continue with the chair and vice chair through next
6 meeting.

7 CHAIR DZUGAN: yeah, I would feel better if
8 somebody did have an objection to bring it up now
9 on that basis rather than just being
10 (indiscernible).

11 MR. TERMINEL: Mike Terminel for record. If
12 we wait til the fall, then that person is just
13 going to be elected for one meeting, and then we're
14 going to have to do it again, correct?

15 CAPT NEELAND: I think the intent would be to
16 have the election at the end of the fall meeting,
17 so whoever is the chair would be the chair for this
18 meeting and next meeting. You elect the new one at
19 the end of the next meeting, so that they will take
20 forward -- take leadership moving forward at the
21 conclusion of the following meeting.

22 CHAIR DZUGAN: So, the calendar year of
23 twenty -- just to clarify -- Jerry -- for the next
24 year yeah, the next calendar year. Because if we
25 did this at the end of the next meeting, which we

1 should, it lets them prepare and communicate with
2 the Coast Guard in that time between a fall meeting
3 and the spring meeting -- the spring meeting next
4 year. Someone can make a motion. Close? Open?

5 MR. DAMERON: I make a motion that we vote for
6 the chair and the vice chair now, and again, at the
7 end of the calendar year 2024 for 2025.

8 UNIDENTIFIED SPEAKER: Can we hear a motion
9 for nominees for that?

10 MR. BOEHMER: I second -- I second the motion.

11 CHAIR DZUGAN: We have a -- we have a motion
12 and a second. Do the motioners wish to offer
13 someone on the ballot?

14 MR. LONDRIE: Yes. I'd like to nominate Jerry
15 Dzugan as chair of the committee.

16 CHAIR DZUGAN: There's a motion, there's a
17 second. You okay with the second with that?

18 MR. BOEHMER: I'll second it. Kris Boehmer,
19 second.

20 CHAIR DZUGAN: Any discussion or any other
21 nominees?

22 MR. LONDRIE: My -- Greg Londrie. My question
23 would be do the rules or regulations permit you to
24 have two elections in the same calendar year,
25 though?

1 UNIDENTIFIED SPEAKER: That's a good question.

2 MR. WENDLAND: Yeah, so Article IV, Section 1,
3 just states an election in the calendar year for
4 the vice chair and the -- or the chair and the vice
5 chair. So, I'm not sure what this motion is going
6 to accomplish that's not already set up right now,
7 the chair the vice chair is, you know, what I'm
8 hearing the motion is the people that are already
9 in the position now. So, unless -- unless somebody
10 felt that they wanted to introduce somebody new,
11 I'm not sure what this vote is really
12 accomplishing.

13 MR. BOEHMER: So -- Kris Boehmer. My question
14 would be in the calendar year of 2024, we had an
15 election, right? So, why are we -- I'm just --
16 maybe I'm just getting confused here, but it seems
17 like we've had in 2023. This is the first meeting
18 we've had in 2024. This is on the plate, right?

19 MR. WENDLAND: Well, their terms haven't
20 expired because it's an election in a calendar
21 year. So, it's just running through. So, if you
22 run it through to the fall, then that's where the
23 election would take place, and that aligns with
24 what the chairman was saying. It's not disjointed
25 that a new person could be elected and not be --

1 you know, not be prepared for this meeting. Is
2 that clear? So, again, as long as you have one
3 election in the calendar year, which the fall would
4 encompass, it meets the bylaws.

5 MR. BOEHMER: Maybe I should withdraw it. I
6 think -- maybe does the person have to do that?

7 CHAIR DZUGAN: Yes.

8 MR. DAMERON: Tom Dameron. I'll withdraw the
9 motion.

10 MR. WENDLAND: Okay. Then it goes -- it goes
11 back to the no objections then. I think that's
12 where we're at.

13 VICE CHAIR ALWARD: Does the second concur
14 with that?

15 MR. BOEHMER: Yes, I do.

16 CAPT NEELAND: Okay. So, just to confirm,
17 there's no objections, the election will be held
18 this fall. And at that point, those will be the
19 officers that will be for the calendar year '25,
20 the following election will be held in the fall of
21 '25 for the officers for '26.

22 VICE CHAIR ALWARD: So this closes out our
23 fiscal year.

24 CAPT NEELAND: (Indiscernible.)

25 MR. WENDLAND: Okay. Very good. I apologize

1 if that 0800 session wasn't -- wasn't crystal clear
2 on that. Obviously, it wasn't, but I think we
3 ended up where we were in the 0800 session, so
4 appreciate -- appreciate the extra thoughts on
5 that.

6 OLD BUSINESS

7 MR. WENDLAND: So, moving -- moving now to the
8 old business of the agenda. Just to -- I just have
9 a couple updates here. One, of course -- one that
10 we always talk about.

11 Angel, if you could call up our -- if you
12 could, call up our web page.

13 One of the topics that we typically update
14 everybody on is the regulatory project for the
15 Coast Guard Authorization Act 2010 and 2012.
16 That's in the unified agenda. And that's a link --
17 that's a link on there.

18 Regulatory -- Regulatory project No. 2 -- No.
19 2, Angel. If you could, click on No. 2 under the
20 members' packets. Yes, sir.

21 And so, that's -- just wanted to provide that
22 information. So, the latest on that is, that has
23 been pushed to March of '25. So, if you look in
24 the middle of the screen right there, at the very
25 bottom of the last item on the Excel part of it,

1 yep, right there. The final rule aspect you will
2 see a date there that says 3/25. So again,
3 that's -- that's just an update and the links on
4 that. So, that was supposed to be fall of '24, I
5 believe, was the prior. And so, that's been pushed
6 again to March of '25.

7 Mr. Chairman?

8 CHAIR DZUGAN: I think this is at least the
9 second time it's been pushed back. Is it fair to
10 ask what happened?

11 MR. WENDLAND: Yeah. It's -- it's all fair,
12 absolutely. So, what I know about this process --
13 and I'm not saying -- I don't have any insight
14 of -- I'm not on the boards of these things, but I
15 can tell you from a -- there's a stacking of
16 regulatory projects that the Coast Guard has to
17 address or that are on an agenda, right. So,
18 every, typically, six months, those projects are
19 looked at and stacked or restacked, and that --
20 that takes place with this board, a very
21 senior-level board, of what is going on in the
22 Coast Guard that, you know, for example if it's a
23 cargo ship running into the bridge or something and
24 a reg. has to, you know, come out, that kind of
25 information, all this stuff -- all the things that

1 happen in the Coast Guard all the time, senior
2 leadership takes a look at that and stacks and
3 restacks because there's only so many we can get
4 out the door and do. And yeah, Captain, I don't
5 know if you have any further insight on that
6 process or if there's any more I mentioned, or if I
7 covered it.

8 CAPT NEELAND: So, what I will say is the
9 Coast Guard does have a limited number of resources
10 on the unified agenda. There's a committee of
11 leadership at Coast Guard Headquarter that
12 prioritizes regulation projects. There are quite a
13 few projects that are mandated by statute. The
14 Coast Guard only has so many resources to work them
15 through. And as they're worked through, they're
16 reviewed at multiple levels. And if there's
17 complications or concerns, that often sets back
18 some projects. So although, we would have liked to
19 have pushed this -- I would have loved to have seen
20 this project pushed -- advance a lot earlier and
21 not continue to -- delayed. There's a number of
22 factors at play that are just beyond our immediate
23 control when you look at the whole regulatory
24 envelope and every project that's (indiscernible)
25 at Coast Guard Headquarters. Yeah.

1 CHAIR DZUGAN: Jerry. Go ahead.

2 VICE CHAIR ALWARD: Matt Alward. I wanted to
3 just point out for the record that there was some
4 comments from the public in the federal register
5 that referenced -- as opposed to licensing, which
6 we'll talk about -- that we actually implement some
7 of the statutory regulations that we don't have in
8 place yet as a means to improve safety in the
9 industry. So, just noting that the public has
10 made -- taken notice that the great package is not
11 done yet.

12 CAPT NEELAND: No, they didn't, and I would
13 love to -- for the Coast Guard to have delivered on
14 every regulatory project ever mandated by Congress,
15 but as I mentioned in my opening comments, there's
16 an economic analysis, there's an open public
17 comment period, there's a bunch of steps to go
18 through and make sure that we don't inadvertently
19 write regulations that cause more problems than
20 they solve.

21 CHAIR DZUGAN: Jerry. So, the reshuffling,
22 just to make clear, is a reprioritization?

23 MR. WENDLAND: In essence, yes. That's how I
24 view it. Any other questions on that? Mr.
25 Dameron?

1 MR. DAMERON: So, I'm curious. The Captain
2 mentioned that -- that the Coast Guard wants to
3 advance fishing vessel safety and, you know, we've
4 had direction from Congress back from 2010 and 2012
5 on ways that we could do that. So, where does
6 that -- and -- and we've been pointed to accident
7 investigations and -- and recommendations to
8 advance fishing vessel safety because of the
9 accident investigations. Where do those -- where
10 do those two rank? I mean, we say we want to look
11 at -- we want to look at the recommendations from
12 the accident investigations, but here we have clear
13 direction from Congress from 2010 and 2012 that --
14 that hadn't been acted upon. It seems to me that
15 there's a bit of a disconnect here.

16 MR. WENDLAND: You know, Tom, I'll try to
17 answer that the best I can, and I don't want to say
18 it hasn't been acted upon, right, because we have
19 presented a regulatory package. So, there's action
20 that's been taken. It's just the stacking and
21 restacking of those priorities with all the things
22 that are going on in the country. So, I don't know
23 if I would characterize it as there hasn't been any
24 action. It's just getting the regulatory package
25 out the door.

1 CAPT NEELAND: Yeah. Tom, as you point out,
2 yes, there's been Congressional action. There's
3 been Congressional action on a whole slew of
4 topics. And unfortunately, every election cycle,
5 you get different priorities from the political
6 arm, and there are other priorities at play here.
7 This is a priority of the Coast Guard. We are
8 trying to advance it. I would love to have seen it
9 already published by now, but oftentimes, it takes
10 many, many years, sometimes decades -- it took over
11 a decade to publish Subchapter M, which was
12 implementation with inspection for towing vessels.
13 So, unfortunately, even if something is on law --
14 written in the law, it takes -- between competing
15 with many other priorities, oftentimes it takes us
16 quite a while to get something out the door and
17 hopefully get it (indiscernible).

18 CHAIR DZUGAN: Jerry again. Just for the
19 record, I would just like to note that if we say
20 there's been an average of about 25 fatalities a
21 year in fishing in the United States, roughly times
22 15 years, that's 375 people's lives lost that could
23 have been half -- could have been not lost perhaps
24 because those regulations would have
25 (indiscernible). Just for the record. Thank you.

1 I know you gentlemen, I realize where this happens,
2 up above. So, thank you.

3 MR. WENDLAND: Anybody else?

4 Okay. The next side in old business that I'd
5 like to touch on is just to give you an update
6 regarding the taskings. So, it was pointed out to
7 me, actually, last night, and I didn't even realize
8 this, that this is actually the third advisory
9 meeting within 12 months, right. So, I think
10 that's probably a record. And that's no small
11 task, and there's a division of labor and a lot of
12 people's efforts that go into this, including
13 your -- your own. But we have -- in those last two
14 meetings we've had 13 taskings.

15 So, I'd just like to update you on where these
16 taskings are. And part of that, the
17 recommendations were to, like, either implement
18 into regulate -- regulate -- regulation or what was
19 known as the voluntary initiatives 2017 guidance,
20 the booklet guidance that we put out.

21 So, in essence -- and I've put this -- the
22 first bullet under task is an Excel spreadsheet.
23 And in essence, I'm just going to kind of say what
24 that spreadsheet, you know, state's, not in -- not
25 in writing, but five of the tasks so far have been

1 completed out of that 13. Four of the tasks have
2 been inserted into the practice guide, the Best
3 Practice Guide, which is the voluntary guide. One
4 of the taskings were exploring the feasibility of
5 it. One of the taskings, we're just looking at
6 maybe putting some more thought into it. One of
7 the taskings, the website is ongoing. And one of
8 them, we just need a better place or a better
9 location to identify to put it in the voluntary
10 initiatives.

11 So, those are -- that's the update on the
12 taskings and where they exist right now. And
13 that's what that spreadsheet is about. So, as we
14 move forward with the taskings 14 through, I think,
15 20 or 22, or whatever it is, today or this -- this
16 meeting, those will be put into this spreadsheet as
17 well, and they'll be updated. So, full
18 transparency what's going on there.

19 Just for everyone's knowledge, with the Best
20 Practice Guide, what we did is went out to our
21 coordinators and asked all the coordinators to feed
22 us their input of what they thought could be some
23 changes or missed or additions into the website or
24 the Best Practice Guide. They provide us that
25 information. We've looked at that. We've inserted

1 much of their recommendations. That guide is
2 draft. I'm not prepared to put that up on the
3 screen at the moment, but it's something that we're
4 going to address at the next meeting, hopefully in
5 the fall. So, that's -- that's what's taking
6 place.

7 VICE CHAIR ALWARD: Matt Alward. And so, I
8 know it wasn't a task, but at the last meeting, we
9 did have a recommendation to rename the voluntary
10 best practices document. Can you give us an update
11 on that?

12 MR. WENDLAND: Yeah. We did that, but it's
13 not, you know -- it's still going to be looked at.
14 We changed the name according to -- but we did have
15 one -- one coordinator that actually said, you
16 know, maybe it would be appropriate to use the word
17 industry -- commercial fishing industry vessels
18 instead of what was directly recommended by the --
19 by this, and I agreed with that. We agreed with
20 that, because fish tenders are part of this as
21 well, but that Best Practice Guide also -- the
22 original intent of that was -- was for vessels --
23 best practices for vessels 50 feet and over. That
24 was the original intent of that. So, we have to
25 look at a little bit closer to make sure when we

1 put something out, best practices and what that
2 guide's really all about, that jives correctly.
3 So, there's just some more work that we need to do
4 with it, but that's the status of it.

5 VICE CHAIR ALWARD: And just note that the
6 committee would probably be happy to have that
7 as -- on an agenda in the future if you need more
8 input from us on it.

9 MR. WENDLAND: Yeah, that's the intent.
10 That's -- that's what I just mentioned. So, the
11 next fall meeting, it's not going to be -- we're
12 not going to say this is the done deal. This is to
13 present it back to you and say this is -- this is
14 where everything is, this is the input. So, you
15 have -- you'll have that feedback opportunity and,
16 you know, have it as a tasking if -- if so
17 chosen -- if so selected by the DFO.

18 VICE CHAIR ALWARD: Thanks.

19 MR. WENDLAND: Anybody else? Any questions on
20 that? Okay.

21 Last part of the old business that I have is
22 the bylaws and the charter. So the bylaws -- the
23 date on our bylaws are June 27th, and the charter
24 is July 12th. So, there's a couple of things here.
25 So, we've redrafted the bylaws and the charter.

1 We've already sent this up the chain. Okay. So,
2 we meet these -- these timelines.

3 We don't expect any issues with this; however,
4 I will say for the charter to be effective, it has
5 to be filed by Congress. So, when I give you that
6 July 12, '24 date, that's -- that's the date
7 that -- that -- our charter will expire, and it
8 would need to be signed. And so, if it -- if it
9 goes up the chain as approved, but it's not filed
10 by Congress yet, then as a -- as a committee, we're
11 not able to continue. So, that charter has to be
12 filed by Congress. And, you know, now we're
13 entering into a congressional thing about the --
14 the approval of these meetings to meet moving
15 forward, because it has to be filed. So, until
16 that's filed, we would not be able to have another
17 meeting so -- if it wasn't followed by that time.

18 So, I just wanted to mention that. That's on
19 the horizon. We don't expect any problems, but it
20 is an election year, and I just wanted to be
21 transparent on that.

22 Mr. Alward?

23 VICE CHAIR ALWARD: Matt Alward. Thanks. And
24 if it's something that the industry folks who work
25 in DC could help us, probably be happy to do that.

1 Question on bylaws. So, you said you reworked
2 bylaws, and that's working up the chair. The first
3 question is can you alter the bylaws, which it
4 sounds like you can, but if you could, explain how
5 that process works. And the second part would be,
6 I have a very large recommendation to add in the
7 bylaws, which I'll get to in a second.

8 MR. WENDLAND: So, the requirement -- and I'll
9 let the Captain add here, but just the first part
10 of that, so the requirement for the bylaws and
11 charter, they have to be updated every two years.
12 So, that process works, traditionally in the past,
13 as we, as in CVC3, take an initial look at it. We
14 work that up through the DFO and see if any changes
15 need to be made or if it still is in alignment.

16 And sometimes it's -- it's just stuff that you
17 catch. And this time around, you know, the bylaws
18 I think, you know, stated that -- or, you know,
19 that the DFO, you know, is opening and closing
20 meetings or whatever. Well, there's a potential
21 that the DFO may not be able to -- or he might have
22 a situation, so we also added in there that the
23 ADFO could close the meeting, right, just simple
24 stuff like that that is often caught.

25 CAPT NEELAND: And Jon, I'd like to add just a

1 little bit. Thanks for the question, Matt. For
2 Article XI, bylaw approval and then it's -- it
3 allows me as the DFO to amend the bylaws, provided
4 that the amendments are consistent with existing
5 laws and also consistent with our charter. So, and
6 at any time -- amendments become effective
7 immediately once ultimately I approve them. So, if
8 we want to make adjustments to the charter, I just
9 need a little bit of time to make sure there's
10 nothing against -- sorry -- amendment to the bylaws
11 that's consistent with our charter and that there's
12 nothing in statutes that would prohibit us from
13 being able to make those amendments.

14 VICE CHAIR ALWARD: And I would just say on
15 the charter bylaws, understanding that it's your
16 authority, but the spirit of cooperation, it would
17 be appreciated from the committee if we could have
18 a look at those as you guys are -- are writing
19 them, just knowing it's not -- you don't have to
20 listen to us, but it might be helpful if the
21 committee had a chance to at least comment on those
22 before they've work their way up the chain.

23 CAPT NEELAND: Yeah. I'm absolutely good
24 from -- as the DFO, I'm fully good with that. So,
25 if you don't already have a copy of the bylaws,

1 I'll make sure we provide you with a copy and the
2 committee. And if you have any comments, as we're
3 routing it through approval -- if we're going to
4 make them -- when we're routing the charter, we
5 wrote the bylaws here at the same time. So, I
6 don't want to cause unintended delays, but same
7 token, I don't want to not be transparent. So,
8 you're more than welcome to take a look at it.
9 Timing on the amendment, we might just have to work
10 on that if we need to amend it. But I don't want
11 to delay the charter getting approved. That's my
12 only concern.

13 VICE CHAIR ALWARD: Neither do we. So, to
14 that, under the Tow Vessel Advisory Committee
15 bylaws, they have an Article V, Section 4 that is a
16 statement vetting committee. There's language in
17 there that I'm happy to make the motion that this
18 committee recommends we have that -- that task
19 statement vetting committee in our bylaws as well.
20 I think it would go a huge way to improve
21 collaboration between the committee and you guys.
22 So, I guess, I -- I'll just move that -- that the
23 committee recommends that the DFO that -- or when
24 our bylaws were amended, we add a task statement
25 vetting committee copied from the Tow Vessel

1 Committee's bylaws.

2 MR. DAMERON: I second.

3 CHAIR DZUGAN: Tom second.

4 VICE CHAIR ALWARD: And I don't really think
5 they need to speak too much to that besides I -- I
6 just think that could go a long way to --
7 understand it's still your agenda, but I think if
8 we had that collaboration working on the tasks
9 before the agenda is finalized, it would improve
10 this process and the value that this committee
11 gives to the public and to the Coast Guard.

12 CHAIR DZUGAN: Any -- there's a motion and
13 second. Any discussion on the floor about the
14 motion? Captain, do you wish to make any comment?

15 CAPT NEELAND: No, I -- just say I welcome --
16 let me take -- I haven't seen the exact verbiage
17 from it, but once I see that verbiage, we'll take a
18 look at it, and I have -- is consistent with -- as
19 I mentioned my opening remarks, right,
20 transparency. I'm trying to be transparent so
21 there's no surprises. So, conceptually assuming
22 there's nothing in our charter statute, I have no
23 issues with it.

24 MR. WENGLAND: Angel, can you -- can you go
25 back to our web page? I just want to point out a

1 couple things.

2 And while he's doing that, Mr. Alward, you
3 know, what we'll -- what we'll check on because as
4 I heard you state, you know, it's not your
5 objective or desire to slow the package down or
6 create a problem that the charter wouldn't --
7 wouldn't go through, right. So, this all goes
8 through CG FACA, right, this meeting. So, we'll
9 have consultation to see exactly where this is and
10 to get the best guidance from FACA to see if we
11 made changes now, is that going to -- is that going
12 to impact the process. And if the answer is yes,
13 then my understanding is the committee would rather
14 not make this friendly amendment to the bylaws that
15 you're suggestion.

16 VICE CHAIR ALWARD: Yeah, we certainly -- I
17 mean, I wouldn't attempt to cause our charter to
18 lapse and have no committee at all, so.

19 MR. WENDLAND: Right.

20 VICE CHAIR ALWARD: I mean, it'd be great if
21 we can. If you guys agree and we can get it in
22 this, in this bylaw, otherwise, apparently it's
23 going to be another two years before you have an
24 opportunity to do that.

25 CAPT NEELAND: No. I think the issue is the

1 current charter is -- and bylaws are currently in
2 routing right now. So, trying to make sure we meet
3 that July deadline date. I'm very open to this
4 amendment. I just wanted to dot some I's and cross
5 some T's. I'll see if we can insert it in the
6 version we're doing. If not, once it's approved,
7 we'll immediately -- we can amend it after it's
8 approved -- congressional -- because by Article XI,
9 we can amend it immediately.

10 I just don't want to run into the issue of
11 routing up one set of bylaws and reverting back to
12 the old set. So, I just -- conceptually, we've
13 tried to be pretty transparent with the agenda.
14 We'll make sure we'll be more transparent, but
15 we'll -- we'll live in the spirit of that as we
16 work to make sure we look at bylaws.

17 VICE CHAIR ALWARD: And on the record, it's
18 not our intent to... so we're clear.

19 MR. TERMINEL: Mike Terminel. Is it possible
20 to get a copy of that so we can --

21 MR. WENDLAND: Yes.

22 MR. TERMINEL: -- read it --

23 MR. WENDLAND: -- somebody -- this was --

24 MR. TERMINEL: -- before we vote on it?

25 MR. WENDLAND: Yeah, this is what I just

1 wanted to --

2 MR. TERMINEL: Before I give a --

3 MR. WENDLAND: Sorry, I didn't mean to
4 interrupt.

5 MR. TERMINEL: Thank you.

6 MR. WENDLAND: This is what I just wanted to
7 point out. So, the bylaws, if you go to our web
8 page, these are always up. So, everybody always
9 has access at all times. So, off to the left
10 there, you'll see the bylaws and the charter under
11 that. Those are the two current ones that we're
12 operating under. So, everyone has access, you can
13 read what they are. And so, that's -- we've taken
14 those and modified the bylaws and the charter as --
15 as we saw, you know, small edits or whatever that
16 needed to be updated or adjusted. So, roger that.
17 Understood that if we can get, you know, that
18 statement put in there without impact to the -- to
19 the full charter, we're going to take a serious
20 look at that.

21 VICE CHAIR ALWARD: Matt. So, I'm -- I'll get
22 this Ange, so you get it, but I'll -- well, I think
23 someone else would like have to move to table, but
24 I would say let's table it until time certain.
25 After lunch, if you get that or whatever -- however

1 much time you guys want, and we get that language
2 to everyone.

3 CHAIR DZUGAN: Is that okay with everybody?
4 Seeing no objection, we'll table that.

5 VICE CHAIR ALWARD: (Indiscernible.)

6 CHAIR DZUGAN: Hearing no objection, we'll
7 table that. Where do we want to pick that up in
8 the agenda?

9 VICE CHAIR ALWARD: After lunch good enough,
10 Mike?

11 MR. TERMINEL: Yeah.

12 VICE CHAIR ALWARD: After lunch.

13 (Whereupon, Chair Dzugan and Vice Chair Alward
14 speak off the record.)

15 MR. WENDLAND: Okay. Thank you for that
16 input. That really concludes the -- the old
17 business part of the agenda, and I note the time
18 is, essentially, 10 after 5 (sic). We were
19 scheduled for a break at 10:15, but maybe we'll
20 just keep on pushing through here on the -- there's
21 just a few things I want to talk about on new
22 business.

23 NEW BUSINESS

24 MR. WENDLAND: Again, we don't we -- we don't
25 intend to derail this meeting on a couple of these

1 topics, but we do feel it's important to -- to
2 discuss because a couple concerns were brought to
3 our attention. And then maybe after the break,
4 we'll reading of the task statements, you know,
5 as -- in the conclusion of the -- the new business.

6 So, just real briefly two concerns were
7 brought to our attention. The first involved the
8 consistency of fire extinguisher bracket
9 inspections during fishing vessel dockside
10 examinations. And so, you know, I had a chance to
11 sit down with Mr. Myers and, you know, on Thursday
12 and talk about a couple of these things for 45
13 minutes or so. And I'm just going to go through
14 kind of my notes and his notes on what he wanted me
15 to communicate. And again, we can bring this topic
16 up if this -- this doesn't meet the satisfaction on
17 that, but hopefully -- hopefully it does.

18 So, just a couple things. I'm going to
19 introduce a few regulatory references, some
20 guidance, competency training, and statistical data
21 on this subject. And the first -- the first one
22 is, you know, regarding the exam criteria, fire
23 extinguishers it -- it's -- you know, it's noted in
24 46 CFR 25.30-10. And that's, essentially, by
25 incorporation, you know, of reference of NFPA 10.

1 So, NFPA 10 is really the guidance there of how
2 these fire extinguishers are -- are examined. And
3 we do have --

4 Angel, if you could call up our web page
5 again. I want to -- I asked him to post this, this
6 morning. We do have (indiscernible) it might not
7 have gotten there. Yeah, it did. He put it up
8 there.

9 So, NFPA 10 is, you know, it's -- you have to
10 pay for NFPA 10. So, we just kind of take a
11 snippet out of it and showed some of the
12 requirements in there. So, that's up on the page
13 so you can look at that as a reference. We also
14 have our form -- our examination form CG5587. And
15 that's what all of our examiners use when they go
16 out on these vessels to check off. So, that's part
17 of -- that's part of the checkouts that the
18 examiners do. Obviously, the fire extinguishers,
19 and there's -- there's notes on that. And that --
20 that 5587 is also up on our web page, so you can
21 look at that.

22 In addition to that the Coast Guard has a
23 PQ -- a P -- PQS, a training aid, inspecting fire
24 extinguishers, and components are addressed within
25 that. And also, there's a -- there's a resident

1 course with Coast Guard examiners and competencies.
2 So, just, you know, regarding, you know, is this
3 really being looked at by the Coast Guard. We went
4 back and looked at some of the data that we have on
5 this, and between 2008 and 2024, there were 2,401
6 deficiencies filed for commercial fishing vessels,
7 boardings, or examination activities where the
8 topic is mounting brackets for portable fire
9 extinguishers.

10 These deficiencies included mounts, ropes, and
11 zip ties, and empty brackets. So, it is being
12 looked at. That's the data that we pulled just to
13 kind of reemphasize that point. To kind of address
14 this a little bit more, you know, this topic is
15 going to be also emphasized. This is the year we
16 do our biannual TPO visits. So, we're going to
17 reemphasize this with our third-party
18 organizations, TPOs are third parties. So, we're
19 going to talk about that and reemphasize NFPA 10
20 and our -- our -- our guidance on that.

21 Just a couple of additional comments on my
22 notes here. NFPA 10 standards should be followed
23 when inspecting portable fire extinguishers and
24 hanger brackets. If concerns arise with relation
25 to the fire extinguisher's bracket, the

1 manufacturer should be contacted. In certain
2 circumstances, the officer in charge of marine
3 inspection may exercise discretion -- discretion
4 measures in their risk-based decision making. So,
5 sometimes there's incidents and OCMI always has
6 that authority and through OCMI, that would
7 transfer down to the examiners. You know, they
8 have that authority to, you know, make decisions,
9 but it's really at the OCMI discretion. They have
10 full -- full ability to do that. So, just some
11 transparency there.

12 The second -- Sir?

13 MR. TERMINEL: Mike Terminel. So, if a TPO is
14 doing the inspection, then they would have -- they
15 would have to withhold offering their inspection
16 until the OCMI approved, because that's one of the
17 big eight, you can't approve their -- their
18 commercial fishing vessel mandatory inspection if
19 they have a problem to fire extinguishers. So, you
20 couldn't give it to them. You'd have to wait for
21 the OCMI to approve it, correct?

22 MR. WENDLAND: So, there shouldn't be approval
23 if it's not in accordance with the requirements,
24 right. So, that's part of issuing that decal. So,
25 if the TPO -- if that came up, the TPO is more than

1 welcome to work back through the -- the district
2 coordinator and say this is what I found, you know,
3 is there any way to, you know, look at this under
4 this situation and maybe have a decision made
5 alternatively to not issue that decal based on
6 whatever circumstance.

7 MR. TERMINEL: I'm just trying to look at how
8 they could avoid delays --

9 MR. WENDLAND: Yeah.

10 MR. TERMINEL: -- because that guy needs it or
11 girl needs it to fish, so you don't want to delay
12 that.

13 MR. WENDLAND: Yeah, so that -- exactly. So,
14 this is where some of this weighing comes in, and
15 these are the black and white, grey issues, right.
16 So, you can have a vessel somewhere that's asked
17 for an exam, up in Alaska somewhere -- we all know
18 that there's not a lot of -- you know, you can't
19 just run to your 7-Eleven and pick up a bracket,
20 right. So, you know, sometimes decisions have to
21 be made there. Knowing that, you know, these
22 vessels should have these exams, you know, in the
23 times where they're able to get those things,
24 right, and address those. And they should be
25 looking at their boats all the time. But yeah, so

1 that's -- that's exactly right. So, there are
2 certain circumstances that make full sense to stop
3 a fishing (indiscernible) vessel, you know, because
4 they don't have a fire extinguisher bracket, you
5 know. So, there's -- there's some considerations
6 there.

7 CAPT NEELAND: Jon, if I may just interject
8 here. Right, so anytime a third party works on it,
9 does work on behalf of the Coast Guard, we give a
10 delegation. Typically equivalencies we hold
11 organizationally, so it's not delegated,
12 specifically in your delegation then, yes, you need
13 to come back to the Coast Guard on that. I -- our
14 district coordinators and our staff should be
15 available if you're encountering that to quickly
16 resolve small issues. Larger issues will take more
17 time as we need to work through to make sure that
18 equivalency is not causing unintended concern --
19 problems. I just encourage that good dialogue,
20 especially with -- especially when you work on
21 behalf of Coast Guard to engage with the local CMI
22 or your district coordinators so -- so if you do
23 run into those events that we can quickly resolve
24 it. And anytime we do have those, I ask you to
25 make sure we give you something back in writing

1 more than an email just to document those
2 equivalencies so that's on record so it doesn't
3 become a problem next time.

4 MR. WENDLAND: Great. Thank you, sir. And
5 all that information is entered in our -- our
6 database or in our MISLE database. So, on approval
7 of exam, that gets entered in, so we have those
8 records. Anybody else? Any other questions? I
9 don't want to delay this too much because I know
10 we're running a little short on time here. And we
11 don't want to go too deep into it, but any other
12 major concerns on that?

13 Okay. Hearing none, moving on to the second
14 concern was with inept -- in -- in respect to
15 immersion suit maintenance, inflation tests and not
16 feeling they're being confirmed by the examiner
17 during dockside exams. So, in essence again, I'm
18 going to point out a few references, some guidance,
19 competencies, and, I guess -- statistical data on
20 this one or not. I don't think I put any notes on
21 the statistical side on this.

22 But in essence, the applicable regulations on
23 this with immersion suits is 46 CFR 28.110,
24 applicable waters and vessel type, 46 CFR 28.235
25 markings, 46 CFR 28 140, serviceability, spec

1 cleaner repairs necessary, ready for immediate use,
2 maintain in accordance with manufacturer's
3 guidelines, and 46 CFR 25.25-13, down with lights.

4 There's also a NVIC out there. NVIC 01-0
5 or -08. The NVIC references Code of Federal
6 Relations -- Code of Federal Regulations and IMO
7 standards, offers suggested immersion suit
8 maintenance recommendations, which include detailed
9 checklists to carry out periodic inspections on
10 immersion suits and inflation test procedures.
11 Coast Guard OCMI's are encouraged to bring the
12 guidance to the attention of the marine industry
13 within their AOR.

14 And again, that guidance is posted on our web
15 page. Our 5587 -- CG5587 I was talking about
16 earlier, you know, discusses the -- well, it has on
17 there the examining immersion suit and apparatus,
18 it's addressed there. Coast Guard examiner
19 training competencies address the immersion suits
20 in the resident course and NVIC 01-08.

21 The Coast Guard has PQS and training
22 (indiscernible) addresses immersion suit and
23 appliance inspections. I do have some notes on
24 this. So, the INV data between 2008 and 2024
25 again, there were 7,405 deficiencies filed for

1 commercial fishing vessel boarding or examination
2 activities where the topic was immersion suits or
3 mentioned. And 213 where inflation or pressure
4 testing was required. So, just a couple of extra
5 comments on this. We see the value of frequent
6 immersion suit inspections. We feel Coast Guard
7 examiners are adequately trained to inspect
8 immersion suits during fishing vessel dockside
9 examinations. Per NVIC 01-08, inflation tests are
10 recommended. The guidance is encouraged when
11 evaluating the operational readiness of immersion
12 suits in service. 46 CFR 28.140(b) states
13 lifesaving equipment must be maintained in
14 accordance with manufacturer's guidelines. Such
15 guidelines may not be the same for all
16 manufacturers. As such, it is the responsibility
17 of the vessel owner/operator to be aware of
18 specific guidelines that are relevant to their
19 equipment.

20 Getting to the point -- to -- to what the
21 Captain was talking about, to promote transparency
22 on this topic, we have recently conveyed or
23 conveyed to our marine inspectors and fishing
24 vessel safety examiners, which are inspection notes
25 Coast Guard wide, to discuss the content of NVIC

1 01-08 during dockside safety examinations.

2 TPO training and competencies, this topic will
3 be emphasized again at the TPO biannual visits this
4 year. And I think the final statement I have on
5 this or remark is that, in essence, the -- the
6 statement at the bottom of our form there with the
7 congratulations, your vessel has been examined, in
8 reference to that, the statement that the vessel
9 has been examined and is found in compliance with
10 all applicable regulations communicates that the
11 safety equipment has been assessed and is being
12 adequately maintained factoring in relevant
13 regulations, program guidance, and policy. So,
14 that's -- again, that's -- that was a discussion
15 that I was just able to sneak in with Joe,
16 Mr. Myers, before this meeting.

17 And we are totally open to having this further
18 discussion. And we can take a couple of comments
19 here, but we don't want to delay the meeting too
20 much. So, I'll just open it up if anybody has any
21 quick questions. Mr. Dameron?

22 CHAIR DZUGAN: Tom?

23 MR. DAMERON: Thank you, Mr. Chair. Tom
24 Dameron. So, I do want to note that NVIC 01-08 is
25 not regulation, right. 28 140(b)(3) that the

1 manufacturer's guidance must be followed for
2 inspection and maintenance is regulation. I
3 believe that all of our Coast Guard inspectors know
4 that they may -- they may -- immersion suits may
5 have different servicing guidelines, but they all
6 have servicing guidelines. And when you come
7 across suits that are 20 and 30 years old that have
8 never been inspected at a servicing facility, as
9 someone that's concerned with the safety of the
10 crewmen on the vessel, this -- this points -- this
11 points to an issue, right.

12 I mean, every manufacturer has -- has the
13 recommendation that that suit gets service
14 either -- either two or three times within that
15 first five years of its life. And I don't know of
16 any that -- that after 10 years aren't asking for
17 annual maintenance. So, when you see a vessel that
18 is getting a sticker every two years and none of
19 this stuff is getting serviced, it's a concern.

20 We recently sent our 20 best suits from a --
21 from a fleet, and 10 percent of them failed. So,
22 two out of the 20 failed. Ten years old. That
23 might not seem too bad unless you're the guy
24 that -- you're the guy that gets -- gets one of
25 those suits that's going to leak. Thank you.

1 MR. WENDLAND: Thank you, Mr. Dameron, and so
2 noted. Anybody else have any comments?

3 CHAIR DZUGAN: I recommend that we take that
4 break unless anybody objects. It's about 10:22.

5 MS. GROLEAU: Jon, just a reminder that I can
6 take questions about immersion suits
7 (indiscernible).

8 MR. WENDLAND: Yeah. So, regarding the
9 break -- yeah, so understood. Why don't we take
10 that, instead of 15 minutes, let's do a 10-minute
11 break, if we can, and -- and then when we come
12 back, we will address or just read through the
13 taskings just to have that on record and go forward
14 from there with our first few presentations prior
15 to lunch, Mr. -- Mr. Chairman.

16 VICE CHAIR ALWARD: Matt. I just want it
17 noted, Angel forwarded an email that's the -- it's
18 the language from the National Towing Safety
19 Committee, so obviously, we would -- everywhere it
20 says that, we would change it to the name of our
21 committee, but that language is good
22 (indiscernible) has that now.

23 MR. WENDLAND: Okay. So, it's 10:23. We'll
24 call it 10:24. Let's return back to the room at
25 10:35. We'll give it 11 minutes. 10:35.

1 (Whereupon, a break was taken from 10:23 a.m.
2 EDT until 10:37 a.m. EDT)

3 MR. WENDLAND: Welcome back. Welcome back.
4 I'm just going to start up if I could just have
5 everybody's attention. Great, thank you.

6 So, where we are, we got one item left in the
7 new business before we get to our presentations.
8 And I didn't mean to cut off one of our
9 presentations or presenters that was advising me
10 that they can address some of the questions
11 regarding immersion suits and whatnot during the
12 presentation. So, you'll have a further
13 opportunity to ask questions after her presentation
14 on some of these topics.

15 But to close out our new business, what I'd
16 like to do is just read through, for the record,
17 the taskings that are in the federal registry. But
18 to get them on record -- and they're also been our
19 web page. So, as the federal register notice
20 states, we'll be continuing on with task statement
21 11-23, so I'm not going to read through that
22 tasking, but essentially, that's the web page
23 development. And, of course, that was read through
24 at last meeting, and it's up on our web page.

25 I am going to start, though, with task

1 statement 14-24. And the description of that task
2 is (reading): That the committee make
3 recommendations on processes to assess, document,
4 and maintain mariner competence -- competency to
5 operate commercial fishing vessels of less than 200
6 gross registered tons, including local knowledge
7 and recency.

8 Moving on to task statement 15-24. The
9 description of the task is (reading): That the
10 committee make recommendations regarding whether
11 the U.S. Coast Guard should explore obtaining
12 legislative authority to require commercial fishing
13 vessel operators of less than 200 gross tons hold a
14 valid U.S. Coast Guard issued merchant mariner's
15 credential, otherwise known as an MMC, and
16 additional measures to require crew members on
17 commercial fishing vessels hold crew competency
18 certificates on merchant mariner's document.

19 Task statement 16-24. The description of the
20 task (reading): That the committee make
21 recommendations on the feasibility of multi-year
22 phase in implementation that all commercial fishing
23 vessel mariners of commercial fishing vessels of
24 less than 200 gross tons and operating three miles
25 beyond the baseline in a near-coastal zone obtain

1 and maintain a merchant mariner's credential
2 without the transportation worker identification --
3 identification credential, otherwise known as a
4 TWIC requirement.

5 MR. DAUGHTRY: Excuse me.

6 MR. WENDLAND: Task statement 17-24. The
7 description of task (reading): That the committee
8 make recommendations on the feasibility of
9 multi-year phasing in implementation that all
10 commercial fishing vessel mariners serving as a
11 master/operator of commercial fishing vessels of
12 less than 200 gross tons and operating three miles
13 beyond the base line in a near-coastal zone obtain
14 and maintain an operator of uninspected passenger
15 vessels, otherwise, known as an OUPV, merchant
16 mariner credential without a TWIC requirement.

17 Task statement 18-24. Description of task
18 (reading): That the committee make recommendations
19 on life raft service interval impacts with the
20 commercial fishing industry and make
21 recommendations to the U.S. Coast Guard.

22 Task statement 19-24. Description of task
23 (reading): To make recommendations to the U.S.
24 Coast Guard on a committee special recognition
25 award that acknowledges substantial accomplishments

1 and contributions to the fishing vessel safety --
2 I'm sorry, to fishing industry safety.

3 Task statement 20-24. (Reading): Committee
4 make recommendations on processes to review and
5 implement commercial fishing vessel mariner fitness
6 for duty for service aboard -- onboard commercial
7 fishing vessels of less than 200 gross tons,
8 fitness for duty in service should include an
9 assessment of overall health and physical fitness
10 and contain provisions for the elimination drug and
11 alcohol usage and management of fatigue.

12 Task statement 21-24. Description of task
13 (reading): That the committee develop guidance and
14 make recommendations on fatigue-limiting
15 strategies, as well -- as well as work/rest hour
16 logging requirement.

17 Task statement 22-24. Description of task
18 (reading): That committee analyze fatigue and
19 sleep deprivation impacts with the commercial
20 fishing industry and make recommendations to the
21 United States Coast Guard.

22 Okay. So, that's the reading of the tasks for
23 the record, and for the minutes, the -- will be
24 posted on our web page. And that concludes the new
25 business items that we have. Does anybody on the

1 committee have any questions before we move
2 forward?

3 CHAIR DZUGAN: I have --

4 MR. WENDLAND: Mr. Dzugan.

5 CHAIR DZUGAN: -- (indiscernible) --

6 MR. WENDLAND: Sure.

7 CHAIR DZUGAN: The -- the 2024, I think it's
8 above that too, can you describe -- make
9 recommendations on processes. What do you mean by
10 processes? Give me, like, some examples.

11 MR. WENDLAND: I am going to let Omar have
12 that discussion, because these did come out of the
13 INV investigation with his office, so I don't want
14 to misinterpret thoughts on that.

15 MR. CALDERON: What number?

16 CHAIR DZUGAN: So 20-24.

17 MR. WENDLAND: So, --

18 CHAIR DZUGAN: 20-24, but I think it's also
19 listed up 20-20 -- 20-14 also has processes. And
20 then, the word -- I don't want to throw too much at
21 you -- we're going to get to the word feasibility
22 also, but right now I'm just asking for
23 clarification on processes.

24 VICE CHAIR ALWARD: That's -- that's the
25 active verb.

1 MR. WENDLAND: Yeah, and also if it's -- you
2 know, if -- if you need a little bit of time to
3 kind of look at that task again, Omar is going to
4 be the fourth present -- presenter, you know, on
5 some of these things, so it might be a time at that
6 point to address that.

7 CHAIR DZUGAN: I'd be happy to wait until we
8 hear what he has to say on both of those, Jon.
9 Thank you.

10 MR. WENDLAND: Anybody have any questions
11 regarding the tasks? Mr. Alward?

12 VICE CHAIR ALWARD: Matt Alward. So, I assume
13 later we'll to take votes to accept tasks? Just
14 for committee's reference, if the committee decided
15 not to separate the task, it's still a task
16 assigned to the committee, and it would just stay
17 there as opposed to accepting it and closing it.

18 MR. WENDLAND: Well, we have -- you're correct
19 that we -- we have the forms that officially --
20 that you, the committee, are saying which tasks
21 that you accept or not accept. They're signed and
22 they're passed off to -- to our office. We have
23 those ready, but in -- when we do that, it sounds
24 like, because there was a question with a couple of
25 the tasks and the language, I would suggest that we

1 move the acceptance to the task following the --
2 the presentation of Omar's. Does that make sense
3 logistically?

4 VICE CHAIR ALWARD: And then process wise, I
5 assume we would just vote on accepting the task or
6 not, right, when we --

7 MR. WENDLAND: Yes.

8 VICE CHAIR ALWARD: -- before we take up that
9 task?

10 MR. WENDLAND: Yes. Absolutely. Yeah, so you
11 can just say hey, you know, we don't want to take
12 it up and so noted, and so --

13 VICE CHAIR ALWARD: (Indiscernible) --

14 MR. WENDLAND: -- that wouldn't be taken up.

15 VICE CHAIR ALWARD: And then can you -- just
16 for the committee's knowledge, can you explain what
17 would actually happen if we did not accept a task?
18 That form's filled out and goes to the office, but
19 what -- what action follows that?

20 MR. WENDLAND: Well, we would -- I mean, for
21 transparency, we would say the committee did not
22 move to accept this task. It would be noted in our
23 spreadsheet, and so the Coast Guard has the
24 information that you didn't decide to take that
25 task.

1 Captain?

2 CAPT NEELAND: So, particularly, a lot of
3 these tasks are tied to investigation
4 recommendations. And, ultimately, the Coast Guard
5 is working to close all these investigations and
6 all these recommendations from it. And by not
7 taking a task, what committee's in essence saying
8 is they're not going to provide a viewpoint or
9 perspective to the Coast Guard, so the Coast Guard
10 will not have the input of the national -- the
11 "FISHSAC," the committee, on how -- or at least
12 their viewpoints on how the Coast Guard should
13 proceed with these recommendations. So, in
14 essence, you just would not provide a voice, but
15 the Coast Guard would still need to move forward
16 and close these recommendations one way or another
17 and decide what the appropriate action is, just
18 without the committee's perspectives.

19 MR. WENDLAND: So with that, you know,
20 everybody is on this committee as a representative
21 of certain positions, right. So, we have industry
22 reps, naval arc. reps, and so, you know, etc., etc.
23 And so, you're representing, you know, those pieces
24 of the pie in the public to the Coast Guard. So,
25 it's -- it's helpful for the Coast Guard to hear

1 that information, but, of course, there's a vote
2 here. So, that's what that vote's all about. And
3 that's -- as the Captain said, that's how we'd move
4 forward.

5 MR. KELLY: (Indiscernible) --

6 MR. WENDLAND: Mr. Kelly?

7 MR. KELLY: Can get them to turn the air down
8 a little bit?

9 (Whereupon, multiple members spoke
10 simultaneously.)

11 MR. WENDLAND: We can. We'll get that.

12 UNIDENTIFIED SPEAKER: We're going to stay
13 awake. We promise.

14 MS. HEWLETT: (Indiscernible.)

15 MR. WENDLAND: Okay. Any other -- any other
16 questions regarding that, and we'll -- we'll even
17 though the tasks were read, there was a couple of
18 points of clarification on a tasks, and we'll take
19 that vote up after the last presentation today.

20 Mr. -- I'm sorry. Mr. Chair?

21 MR. THEILER: Mike Theiler for the record. I
22 just want to also, you know, state that there was a
23 tremendous volume of -- of studies and -- and, you
24 know, I think there was over 1000 pages of -- of
25 homework, so to speak. So, regarding the tasks

1 that were given, you know, I think that you should
2 also reflect that there was a short period of time
3 to digest that amount of paperwork.

4 MR. WENDLAND: Yes. So noted. And also, that
5 can be the decision, right, when you go to vote for
6 these tasks, maybe you can say well, let's have the
7 evening to look this over a little further. But we
8 also do have in the agenda, I believe, at 1520, at
9 3:20, familiarization of the cases. So, there's a
10 little bit of time to do some reading there as
11 well, if we have it.

12 So, we tried to build that in recognizing the
13 timeline and the amount of volume that was pushed
14 to you, you know, that's -- I mean, honestly,
15 that's -- it's coming out of the office of INV, and
16 this is the information that they have to -- you
17 know, they want to close it out to give you
18 everything you need. So, I know that was
19 voluminous, but, you know, some of that's out of
20 our control.

21 CHAIR DZUGAN: Captain Neeland?

22 CAPT NEELAND: Thank you. I just want to note
23 we recognize there's a lot of investigations and a
24 lot of pages, and although you may not -- have had
25 a limited amount of time prior to coming here to be

1 able to fully digest it, again, if you accept the
2 task, there is not a deadline. You do not have to
3 deliver a decision by Thursday. If you need
4 additional time, as a subcommittee to be able to
5 evaluate, ask for more information, you're more
6 welcome to do so -- more than welcome to do so.

7 We brought in Omar from IMD to help answer
8 questions. We brought in technical experts from
9 various offices so that hopefully you can ask some
10 questions, at least who know -- know who the point
11 of contact is. But by all means, if you -- if the
12 committee needs more time to digest these
13 investigations and understand the recommendations
14 and try to figure out the path forward, the
15 committee is more than welcome to take time
16 additional beyond the -- this immediate meeting to
17 weigh everything, to make sure that their
18 recommendations are most representative.

19 MR. WENDLAND: Thank you, sir. And also want
20 to tip our hat to INV, because I got late notice
21 and maybe some of you know or don't know, but Omar
22 is a Reservist, so because of the incident in
23 Maryland, he was originally given orders. So, that
24 presented, you know, some concerns with us. But
25 those orders were rescinded, and we are very

1 fortunate that he was able to attend this meeting,
2 and we appreciate INV and all the efforts that went
3 into that so you folks would have the information
4 for this meeting.

5 And so, with that, any other further questions
6 on the tasks, statements (indiscernible)
7 proceeding? Okay. So, I'd just like to close out
8 the new business section of the agenda. All right.

9
10 So, this -- this moves us into, again, as I
11 mentioned earlier, there's four presentations. We
12 will try to get in the first two presentations
13 before lunch. It's 10:52 right now, so we're about
14 22 minutes behind schedule. So we'll see where
15 this -- where this leads.

16 But -- so with that, I'd like to bring up
17 Mr. Patrick Gallagher. He's out of sixth -- CG672,
18 and we're very fortunate to have Mr. Gallagher here
19 today. I've worked with Patrick, you know, in the
20 past regarding comms on boats, Starlink, Rescue 21,
21 you know, all the issues that kind of were brought
22 up that the Coast Guard has different offers --
23 office pieces, including the FCC, you know, all
24 sorts of people that have to weigh in on these
25 subjects.

1 Patrick is one of the subject-matter experts
2 that tries to herd the cats and work that through
3 the processes. He's extremely knowledgeable. He's
4 been around since 1984, I think he told me. So,
5 very, very delighted and privileged to have him
6 here today. And, I believe, he's actually, heading
7 over to IMO or London on Friday, so very busy man.
8 No further ado, Patrick.

9 And Angel, you're able to call it up? Got it?
10 Great. Thank you.

11 PERSONAL LOCATER BEACON/RESCUE 21/

12 NEW TECH SHIPBOARD COMMS

13 MR. GALLAGHER: It's kind of low, so I figured
14 I'd hold it up. Is that too bad? Test 1, 2, 1, 2.
15 Is that better. I don't see anybody grabbing their
16 ears, so that's pretty good.

17 Like Jonathan said, my name is Patrick
18 Gallagher. I work in the Office of Spectrum
19 Management and Communication Policy. I kind of
20 work on the opposite side of the house as these
21 people, most of the rest of the Coast Guard people
22 in here, because I work on the -- I supply
23 services, and I do some regulatory actions, but my
24 main roles in my office is I'm the communication
25 representative to IMO, any topic on communications

1 comes by me, and I have to do some kind of opinion
2 and get it up to the boss in the leadership.

3 I also am in charge of coordinating meetings
4 with the FCC. So for example, if one of your
5 vessels puts in a waiver in -- out of part 80, our
6 office will get involved and we'll work with it,
7 because the SEC won't directly give you a waiver on
8 any communication equipment without consulting us.

9 I also coordinate with the National Weather
10 Service, NOAA, so their products go out correctly
11 over the Coast Guard, via either VHF, like Rescue
12 21 or NAVTEX or via satellite if you're a little
13 bit further out. One of the members of the GMDSS
14 Task Force, which is open to the public if anybody
15 wants to attend, but it's kind of a what's going on
16 with --

17 You're way ahead in my slides, just so you
18 know.

19 Secondary, I do standards for radios. So,
20 those little weird technical things in the
21 background that most people don't use, we make it
22 so they work internationally and nationally. And
23 like I said before, I just -- advise Prevention
24 Office on topics related to communications.

25 I think I've spent over 20 years with the

1 Coast Guard, kind of an all over the place. But
2 like I said, I'm on the electronic side. I started
3 out doing ASA navigation, physically putting buoys
4 in the water and then fixing lighthouses. Then I
5 went to electronics school, and then I started
6 doing MORAN (ph), which I knew is gone, but some of
7 you still recognize the acronym. Then I went into
8 the middle of the country and worked on, once
9 again, communications there for all the inland
10 waters. And like I said, that led into this, into
11 the Rescue 21.

12 But before that, he put me on another ship,
13 did boring stuff like law enforcement while I was
14 in a room that didn't have any windows, so. But it
15 was air conditioned. And then they thought that
16 wasn't a challenge, so they made me the senior
17 instructor at National ASA Navigation School, and I
18 taught people how to fix lighthouses, how to fix
19 fog detectors. And when we were still doing
20 differential GPS, the students who came through our
21 class were the ones that maintained that so you
22 could use it.

23 And then I went -- I went pretty much
24 exclusively comms after that, and I jumped in to a
25 lot of the remote stuff, and I'll cover that a

1 little bit later. But most of our long-range
2 communications is done remotely from Chesapeake,
3 Virginia. While we still have assets in all those
4 other locations, the physical operator is sitting
5 in a room in Chesapeake.

6 And then I started doing -- they gave me short
7 projects that the Coast Guard worked on, and I did
8 differential GPS, VTS, rollout AIS, did command
9 center stuff. But like I said, once again, it was
10 all on the equipment side providing services. And
11 then my pinnacle job before I became a civilian was
12 I owned All (Indiscernible) Coast Communications
13 from a requirement standpoint, so like I said, I've
14 touched on all this stuff. And that's kind of how
15 they gave me this job when I retired. They said
16 because you've done a little bit of everything, so
17 why don't you do it, why don't you come help do
18 this.

19 But we'll go into Rescue 21. This is our
20 short-range coverage. There's a lot of Alaska
21 people here. It's not -- it's not as robust in
22 Alaska. We've been trying to make it more robust,
23 but it's also very -- a very difficult environment
24 to -- when you can only build sites about three to
25 four months a year, and then they ice over on you.

1 But we've been working on trying to do some new --
2 new technology to try to extend that range up
3 there. And I know the Marina Exchange of Alaska is
4 trying to -- trying to do some projects too to help
5 extend communications and AIS coverage to help out
6 the mariner.

7 I didn't get a number of how many Rescue 21
8 sites we have, but like I said, we have enough to
9 cover -- the U.S. that's declared A1, except for in
10 Hawaii -- excuse me in Alaska, which means we cover
11 20 nautical miles out to sea all the way around our
12 coast. Like I said, the Alaska map, it's very,
13 very spotty. Because the same -- the same site in
14 Alaska would probably costs five to 10 times more
15 to make the exact same site there, and there may
16 never even be a user in the water (indiscernible).

17 Nice thing about Rescue 21 is we can also
18 control that remotely. We have backup sites. We
19 can control any of the sites from our site in West
20 Virginia. Say, for instance, if a hurricane's
21 coming through or a bad storm, we can vacate those
22 operators and have other operators standing up.
23 So, as long as the radio's still standing, we can
24 still provide the service. And then out of the
25 Chesapeake location and South Point Reyes, which is

1 just north of San Francisco, we have temporary
2 sites that we can implement and load into the
3 system so we can still continue to provide that
4 service.

5 Like I said, obviously, they have to -- they
6 can -- they drive it most of the time. But the --
7 most of the equipment was designed to be able to
8 put into an aircraft, so we can get on
9 (indiscernible) pretty quick. But like in the Gulf
10 region, for instance, if we know there's a
11 hurricane coming, it's already packed up and it's
12 on its way, and they just try to preposition out of
13 where they think the disaster zone will be.

14 One nice thing is you can test your DSC radios
15 on VHF and their -- there's a website later on I'll
16 show you, that can tell you how to do it. Because
17 it's set up if you dial the MMSI from the local
18 sector, it will automatically answer you. So,
19 that's one way to test your equipment. Because a
20 lot of times, a lot of these buttons on your on
21 your radios, you don't know if they work until you
22 need them to work, and then they don't work.

23 And one real quick thing, and that may be
24 later, but I'll cover it in this. A lot of DSC
25 radios we have out there right now, digital

1 selective calling, they need to be connected to the
2 GPS. And a lot -- most of, like -- it's a lot of
3 the rec boaters don't have this. So, they think
4 when they hit that button, the Coast Guard's going
5 to come, but it shows them off the coast of Alaska
6 because it gives them a 000 reading, and that's not
7 very helpful for finding. But the one nice thing
8 about Rescue 21 is it will direction find, so they
9 will be able to get some lines and bearing.
10 Depending on where you're out on the coast,
11 sometimes they can get three or four lines of
12 Bearing, so they kind of already have an idea where
13 you're at.

14 Next slide, please.

15 Long-range stuff. I'll start with NAVTEX. I
16 just have an East Coast picture, but we do have it
17 on the West Coast, Alaska, and Guam and Hawaii, as
18 well. Puerto Rico dot's on there. But we provide
19 the service -- it's mostly for weather and NAV
20 warnings. It's a free service once you buy the
21 equipment, but like I said, this equipment's been
22 out there a long, long time.

23 At the international level, they're looking at
24 trying to create a new service called NAVDAT, and
25 the advantage of NAVDAT is we'll be able to send

1 data, so you'll be able to get weather pictures as
2 opposed to having to plot it out on -- on your
3 plotter. You'll be able to see a picture. Working
4 on that trying to -- trying to get all this stuff.

5 S100 is coming. I'm not an S100 expert, but
6 that would -- that would implement into that where
7 it would be automatic, and you could just have a
8 radar right on your chart plotter. Like I said,
9 I'm not going to read -- I don't read the slides a
10 lot, but, like I said, that's -- that's NAVTEX.

11 If you'd go to the next slide, please.

12 Digital selective calling is on both VHF and
13 HFMF. We've -- the Coast Guard doesn't listen on
14 very many frequencies anymore. In a couple of
15 slides, I have something on that. But digital
16 selective calling, you dial in these frequencies,
17 it will automatically go to the nearest Coast
18 Guard, and they can answer it. And then there's a
19 switch in -- then you'd switch frequencies and
20 start the actual communications. But this is kind
21 of like a 911-type call to establish the -- to
22 establish the connection, and then you can have the
23 conversation.

24 And here's our -- here's the two places that
25 we actually listen to live -- live conversation, as

1 well as VSC, it's in Guam and Kodiak. And in
2 Kodiak, part of the reason they agreed to keep
3 doing this is because we remoted Kodiak down to
4 Chesapeake, Virginia. And this was the one place
5 that we actually did get calls. Because then in
6 the lower -- in the lower 48, we didn't receive any
7 calls on distress frequencies for over seven years.
8 And there was a -- there was a 24/7 watch standard.
9 And this was while we still in East and -- East and
10 West Coast, so we had three people listening for 24
11 hours a day, and only the guy on the left is
12 getting calls. So, that's one of the reasons it
13 behind there.

14 Some of the discontinued long distance
15 services, SITOR. I don't think it touches the
16 fishing communities that much. I don't think they
17 used it that much, but it's a -- it's a long-range
18 method. And then right below that is when we
19 discontinued the single sideband voice frequencies
20 with the exception of Guam and Kodiak.

21 The next couple of slides, I'm not an expert
22 on these. I -- I -- I got these -- the information
23 from the Office of SAR and their expert. And so,
24 if you have questions on it, I can -- I can -- I
25 can take them back and get them. He's pretty

1 responsive, but we -- pounds and some of this stuff
2 is -- is linked directly at many levels nationally
3 and internationally, so we do a lot of work
4 together.

5 Good thing about U.S. certified EPIRBs and
6 some of the requirements, like I said, it's --
7 between this and the -- and the SAR staff, they
8 have really good metrics about documented
9 lifesaving. And I know for the Coast Guard, we
10 also have lots of documented savings with Rescue
11 21. That's more from -- it's -- it's the different
12 side of the house that I don't work on. I don't
13 worry about saving the lives. I worry about making
14 the radio ready for twenty -- 24 hours a day so we
15 can save a life.

16 Next slide. PLBs. This topic's getting
17 bigger and bigger, both internationally and
18 nationally. We've had several instances in the
19 past few years where -- where people passed away,
20 with the El Faro, the Scandies Rose, the Seacor
21 Power, where the findings after the fact where it
22 would have been really nice that these people had
23 that because if nothing else, we could have
24 recovered them at a minimum and potentially saved
25 their lives. And like I said, a lot of the ones

1 with AIS, if you go over the side and you have an
2 AIS beacon on you, everybody in the immediate area
3 with an AIS will see you go. So, someone else can
4 render assistance. Like I said, some of you guys
5 have been in very treacherous waters. Finding
6 something small in the water, as a human being, is
7 pretty difficult unless you watch them go over.
8 Usually you can find them pretty easy then.

9 They say there's no carriage requirements that
10 currently exist. And like I said, from the Coast
11 Guard SAR office, they encourage PLB-AIS when
12 operating within three miles from shore. Makes --
13 it makes life a lot simpler for everybody involved
14 and really facilitates a quick rescue because they
15 know exactly where you're at. There's no -- no
16 search, it's just rescue.

17 And we've be -- DoD requirements are there,
18 and we also established a new -- a new standard
19 on -- on the devices.

20 Next slide. Some of the -- some of the
21 benefits of these PLBs, because they do -- they do
22 create a distress alert. And the emergency
23 notification is -- is recognized as a service, so
24 it will come up, and you get notifications that
25 it's actually there. It's really nice. It'll also

1 provide a locating signal. Like I said, the
2 ocean's a very big place and getting a great
3 starting point -- you know, because like sometimes
4 after mass events, we'll have these things and
5 they'll still be floating in the water, and they'll
6 keep searching until they get them all out of
7 water.

8 Yes, sir?

9 VICE CHAIR ALWARD: On that, I don't know if
10 you guys have a list of -- an official -- a list of
11 which the PLBs have which capabilities, but that
12 would probably be really useful to the public, too.
13 Instead of having to do all the research to figure
14 out which one would be best for -- for them.

15 MR. GALLAGHER: We're always kind of stuck on
16 that on recommending gear. I mean, we might be
17 able to give a -- we might be able to --

18 MR. ROSVOLD: I think he was saying just a
19 list, like this manufacturer has these features,
20 not -- not recommendations, but.

21 MR. GALLAGHER: I can ask (indiscernible) SAR.
22 They may -- they may, actually, have a list.

23 CHAIR DZUGAN: I can tell you, the only --
24 this is Jerry. The only manufacturer so far that
25 has a PLB with built-in AIS is ACR. That just came

1 out this fall. I was looking for my picture of
2 one. It, actually, is -- it looks like a big
3 cigar, actually. And it's, actually, pretty
4 exciting project -- device. That's the only one so
5 far. They also have return link services, which
6 I'm -- you'll probably talk about later.

7 MR. ROSVOLD: Eric -- Eric Rosvold. Are these
8 AIS, are these FCC approved or do you know?

9 MR. GALLAGHER: There's some that are
10 approved. Like I said, it's hard because each
11 device is its own individual thing. So, I'm trying
12 to talk -- talk to them as a group. Some stuff has
13 been approved, some stuff has not.

14 MR. ROSVOLD: I ask because we --

15 MR. GALLAGHER: But we could --

16 MR. ROSVOLD: -- -we tried to get AIS approved
17 for locator beacons for fishing gear, and we've
18 been unable to make that happen with the FCC.
19 There's not enough room in that particular group of
20 frequencies they use for ATOMs (ph) to include
21 that, so I was sort of wondering how they got FCC
22 approval, and we couldn't find the other.

23 MR. GALLAGHER: I don't want to go too deep in
24 the weeds, but there are basically so many channels
25 for AISs right now.

1 MR. ROSVOLD: Right.

2 MR. GALLAGHER: And there's different
3 categories of AIS, and the -- most of the fishnet
4 markers are illegal because there is no -- there is
5 no approved FCC device. And, like I said, we
6 probably, at least once a month have to shut Amazon
7 down or some other company from selling these
8 devices because they're not legal. And like, when
9 you look at the packaging, they'll say that
10 there're FCC certified. They weren't certified as
11 a fishnet marker, they were certified as a radio,
12 and they just inserted the technology into a
13 marker.

14 But they're trying new -- there's something
15 called -- there's another level. It's called an
16 autonomous radio maritime device, and the fishnet
17 marker would be in a B category, but nobody wants
18 to make the B category yet. They just want to take
19 exactly what they had and flip it over into -- into
20 AIS.

21 And from the Coast Guard navigation side of
22 the house, who I work with, it can cause -- it can
23 wreak havoc on your navigation, depending on where
24 you're at. Especially, in heavy waves because it
25 tends to be -- it seems like the devices will be

1 low when you're high, and you kind of go like that
2 (gesturing), and all of a sudden you come up, and
3 it shows that you have a vessel, you know, 100
4 meters in front of you. And the captain's freaking
5 out trying to find it, and he can't -- he can't see
6 it. You know, obviously it's going to drive right
7 through it, but people -- people have made turns in
8 bad places because they misconstrue what it was.
9 But we have been -- that's been probably on our
10 agenda with the FCC probably four or five years, at
11 least. It was before COVID.

12 CHAIR DZUGAN: Matt? I'm sorry. Eric.

13 MR. ROSVOLD: Eric Rosvold. Yeah, we had the
14 people here in the room with us, probably five
15 years ago, talking about the problems with it, the
16 net -- net equipment. That's just what led to my
17 question is did they get FCC approval for the PLB?

18 MR. GALLAGHER: There's --

19 MR. ROSVOLD: Knowing how -- knowing difficult
20 it is, I just was curious.

21 MR. GALLAGHER: There is some. That's why I
22 said, a list would probably be a good thing of at
23 least approved devices would probably be the best
24 way to go, because every time we blink, there's a
25 new one on the market, And you'll -- you'll see it

1 when I talk about Starlink later. There's services
2 that are coming out that are great, but that's not
3 what their intended purpose was for. You don't
4 want to put your life into a device where the
5 people go home at five o'clock and don't come back
6 until the next morning, and you can -- that's what
7 your -- your signaling device to the Coast Guard
8 will be.

9 UNIDENTIFIED SPEAKER: (Indiscernible) the one
10 that was (indiscernible).

11 VICE CHAIR ALWARD: Matt Alward. Follow up to
12 Eric. I think it was a Coast Guard (indiscernible)
13 of '22 that actually statutorily said that if we
14 need AIS markers for fishing gear, it's legal. Of
15 course, that's going through rulemaking. I don't
16 know if you had an update on that, how that plays
17 into this whole process.

18 MR. GALLAGHER: I haven't seen anything
19 recently. And like I said, usually it comes up in
20 one of the various meetings that I attend.

21 CAPT NEELAND: Just super quick. Any pending
22 legislation, we can't probably comment on, so.

23 VICE CHAIR ALWARD: That -- no, that past in
24 twenty -- that was a '22 (indiscernible).

25 CAPT NEELAND: Correct, but if there's

1 anything currently --

2 VICE CHAIR ALWARD: Rules.

3 CAPT NEELAND: -- we can't comment on.

4 VICE CHAIR ALWARD: He's a civilian.

5 (Whereupon, multiple members speak
6 simultaneously.)

7 MR. GALLAGHER: He knows my boss.

8 MR. CALDERON: That's that one that you were
9 talking about.

10 CHAIR DZUGAN: No, that's the -- just ad.
11 That's the --

12 MR. CALDERON: (Indiscernible) on here?

13 CHAIR DZUGAN: That's the AIS. That's -- this
14 one's -- it looks just like it. It's a little bit
15 taller, and it's got the (indiscernible) in it.
16 I've just texted the factory to find out they're
17 FC -- I think it's FCC approved, but I'm just
18 checking with it now.

19 MR. GALLAGHER: I think there was one, like I
20 said, sometimes it's hard to keep track because
21 when you're -- when you're monitoring lots of
22 technology, things are getting approved all the
23 time.

24 CHAIR DZUGAN: Yeah. Michael.

25 MR. TERMINEL: Mike Terminel. And I'm on

1 their website. And the PLB 450 is AIS FCC
2 approved, and the 450 PLB is FCC approved. They're
3 just a different...

4 CHAIR DZUGAN: Nick?

5 MR. HOWLAND: Through the Chair. Thank you.
6 Nick Howland, the safety product manufacturer rep.
7 I know in Europe, they're related to this
8 overcrowding AIS concern with the -- the -- the
9 fishing net markers. They're implementing
10 something called Class M, which apparently, when
11 applied to PLBs, restricts their use of AIS and it
12 applies DSC. And so, it's supposed to minimize the
13 AIS in PLB. Is that anything that we're looking at
14 here? Apparently all European PLBs have to have
15 the Class M designation in -- by 2025.

16 MR. GALLAGHER: I haven't seen it yet. And
17 like I said, I'm on the fringe of a lot of these
18 things, but I don't remember us doing that. But
19 we're in a lot of the same meetings because, like I
20 said, I was supposed to be in Germany next week --

21 MR. HOWLAND: Yeah.

22 MR. GALLAGHER: -- and some of this would have
23 came up, because we tried to mirror what some of
24 their -- what they're doing over there to make it
25 over here, because it makes it easier for the

1 manufacturer. Because I go to several meetings
2 where the manufacturer centric, not government
3 centric. And we say hey, we'd like to do this, and
4 they're like well, we can give you this, but
5 that's -- that's as far as we know unless you
6 change regulations. You know, but kind of the same
7 thing with the fishnet markers and stuff.

8 MR. HOWLAND: Yeah.

9 MR. GALLAGHER: There's stuff that's got to be
10 moved around to make it. And the hard part is, now
11 that we know AIS, it's so easy to make a device
12 that goes there. But the problem is Ai -- AIS is
13 noisy. And they did dan analysts -- analysis of
14 Amsterdam and, like, over -- I think it was like 52
15 percent of the traffic on there was all collisions,
16 which took -- because it basically -- it -- with
17 AIS, it establishes a network of everybody you can
18 transmit to, and theirs does the same thing, and
19 everything's negotiated in there. But 52 percent
20 of the traffic was being blocked because it was
21 collisions because it -- someone would come from
22 outside the network and put a signal in there and
23 then it doesn't work. So, we're trying to find
24 ways -- we're trying to do some stuff in the
25 background that possibly would get some more

1 frequencies, which would make it a lot easier to do
2 devices where we could say hey, fishnet markers,
3 why don't we just put fishnet markers and similar
4 type things on this frequency. And then it would
5 be -- you know, if it gives the -- it would unclog
6 the other -- the other areas, and it'd be a focus
7 on that. And then you'd just be hey, this is how I
8 see a fishnet or this is...

9 Like I said, I always hear -- like I said, I'm
10 not a bridge guy anymore. Just all the -- all the
11 sensory overload of alarms and chart plots and
12 everything you're seeing on the plotters, and it
13 makes it very difficult when you come into port or,
14 you know, like a Houston Galveston or something,
15 it's just so messy down there.

16 You know, because on a given day, this was a
17 couple of years ago, it was like 1,300 AIS contacts
18 that I -- that I was looking at --

19 MR. HOWLAND: That didn't help the guy in the
20 water. Yeah.

21 MR. GALLAGHER: Like I said, but that's also
22 picking you up from a big antenna that's a couple
23 hundred feet off the ground. That's not what the
24 ships are seeing, and I'm seeing all -- all the
25 sights, the -- there needs to be more room.

1 But we, basically -- people forget we carved
2 that out of all the voice channels that we used to
3 have, and now there's less -- less of those, you
4 know. And we're trying to get some more of those
5 and possibly digitizing it, but there'll be a very,
6 very slow push, because, basically, have to change
7 every radio.

8 I think I said I'd talk about cases. Go back
9 just real quick. This came up fairly recently
10 because we've been trying to push, like, a radar --
11 or excuse me, an AIS SART instead of a radar SART.
12 They're finding hey, no one's ever located a case
13 where anybody's life has been saved with a radar
14 SART. And it's the nature of a radar SART, because
15 for you to view a radar SART, you have to detune
16 your radar to receive it. So, it's kind of
17 contrary. You're up there navigating on the
18 bridge, and you have to detune your tool that tells
19 you that ships are coming.

20 And a lot of people (a) don't know how to do
21 it; and (b) it's kind of nervous situation because
22 if they did it and then they forgot to retune it,
23 then you really might miss something right in front
24 of you.

25 MR. TERMINEL: Mike Terminel. You also have

1 to have an X band radar. If you have S band, it's
2 not even going to show up.

3 UNIDENTIFIED SPEAKER: Correct.

4 MR. GALLAGHER: Like I said, I don't know how
5 many commercial vessels don't have AIS anymore. I
6 don't know if there's any loopholes in any of the
7 requirements that people -- people fall out of. It
8 would be -- it's a great tool, you know, and
9 especially for saving lives -- for saving lives.
10 Because everybody around you can become a lifesaver
11 instantly. You don't have to tell somebody, you
12 know, if you didn't have a chance to get off that
13 last call, you went in the water, and you activate
14 one of these devices, everybody around you is going
15 to get an alert. So, it's pretty effective way of
16 doing it.

17 MR. TERMINEL: Do small vessels
18 (indiscernible)?

19 MR. GALLAGHER: No. Like I said, we have so
20 many -- a lot -- a lot of the rec boaters buy stuff
21 and then they never configure it. Because, like I
22 said, and -- and I kept trying to work with our
23 boating safety people trying to get people to hook
24 the cable up between their DSC radio their GPS,
25 because they think they're covered, and they're

1 going to hit that red button, and we're going to
2 kind of find them. But it's -- it's not that
3 immediate. And boating safety was -- the big
4 answer was we can't get them to wear life jackets,
5 so trying to get them to fix the cable is probably
6 light years beyond where we're at. You can only --
7 you can only push out so many messages at a time,
8 and it just becomes noise otherwise.

9 CHAIR DZUGAN: Matt.

10 VICE CHAIR ALWARD: Just for -- Matt Alward --
11 education, so if you have a PLB with AIS and it
12 goes off, it's not just like a signal pops up.
13 It's also -- it sends an alert as well, so you know
14 it's actually somebody in -- or a device in the
15 water at least.

16 MR. GALLAGHER: Right. And the big thing
17 about an alert is you -- you have to make it go
18 away; you have to acknowledge it. Otherwise, it's
19 going to annoy you until someone else acknowledges
20 it. So, having -- having that positive -- you
21 know, and I'm sure there's alerts where people
22 just -- just turn them off because that's human
23 nature. But I would hope they would at least look
24 and say hey, that guy's only a mile from me, maybe
25 I should go over there and give him a hand.

1 Yeah. Next slide, please.

2 The hard part we have a lot of times is just
3 outreach of trying to get out our information. And
4 the first one, I'll go in, in a couple slides. The
5 Coast Guard Navigation Center website, it's a
6 public-facing government site. We try to put
7 everything related to comms on there, and the guys
8 in Coast Guard navigation try to put everything to
9 do with navigation there.

10 So, a lot of these questions that you guys
11 have potentially could be there. And if not, I'll
12 show you a way where you can -- if the answer is
13 not there and you're really looking, you can
14 describe your problem, you can -- it'll send us an
15 email as well.

16 But those are -- those are the four ways my
17 office -- we try to reach out to people when we
18 publish stuff or when we find stuff.

19 Next slide. And some of this is related to
20 that. A lot of -- a lot of times we have a problem
21 because people can't change the information inside
22 their AIS or inside their DSC radio, because it's
23 preprogrammed once you get it, and you can't
24 unprogram it. What to do when you sell your -- a
25 vessel, because it's very bad if I own a boat, and

1 I sell it, and it has my personal information in
2 there, it goes to you, and then you have a problem.
3 They're going to call my house looking for me, and
4 I'll be like oh, I sold that boat. And it just
5 takes longer for them to keep finding down the
6 pathway. So, it talks about what to do.

7 MSIB 3/22 is kind -- this -- this will impact
8 you guys. A lot of the LED lights that are coming
9 out that you put you're putting up on your decks
10 and upon your masts are like little baby radio
11 transmitters to the point where you will lose
12 potentially all VHF communication all AIS
13 communication and potentially GPS if it's a -- if
14 it's a noisy light.

15 And to put it in perspective, the guy who runs
16 Shine Micro was running AIS on the West Coast, and
17 he was one of the first ones who figured it out.
18 He had a light in his shop that was by the antenna,
19 and he could see 200 miles of AIS because he was up
20 on a -- he's up on a hill. He's got a big, tall
21 antenna. When he flipped on the light, his 200
22 miles of coverage went down to 50. And as soon as
23 he flipped it off, it went back to 200 miles.

24 So, picture this -- so, that's with some
25 different equipment, but up on your mast, because

1 we went to pushing all this stuff on -- on the
2 ships to make them more efficient, but none of the
3 light manufacturers were putting lights outside
4 thought about the radio antennas. And most of your
5 radio antennas are pretty well squished together on
6 a single mast on a lot of these vessels or in a
7 single location. And it'll -- it'll take it down
8 to where you can't -- you can't hear anything. But
9 on an MSIB, there's a self-test you can do to see
10 if it's actually impacting you.

11 VICE CHAIR ALWARD: Now, is there any, like,
12 manufacturer requirements for them to, like --
13 anything we can look at when we buy a light that
14 says this is or is not, like, a noisy light?

15 MR. GALLAGHER: We -- from this we created a
16 standard that we're trying to push.

17 VICE CHAIR ALWARD: It's not out yet?

18 MR. GALLAGHER: It's -- the standard's out,
19 but you need the people -- it's a voluntary
20 standard, so you need them -- you need them to
21 comply to do it. As I said, we did this testing
22 and we -- when we went down to one of the American
23 Marine stores and just randomly bought bulbs and
24 spotlights and stuff like that and had them tested.
25 So, there was no -- we didn't ask the manufacturer

1 for it, and we took them to a screen room down
2 here, actually, in Florida and had them tested, and
3 the results were pretty amazing.

4 The safety alert that we just came out with
5 this year probably won't impact you guys that much,
6 but, basically, when you (indiscernible) a VHF
7 radio, and you don't have over 436 feet of
8 separation from your AIS antenna, your AIS isn't
9 receiving the entire time you're transmitting.

10 VICE CHAIR ALWARD: How much?

11 MR. GALLAGHER: 436 feet away.

12 MS. HEWLETT: (Indiscernible) boat.

13 MR. GALLAGHER: So, just to put it in
14 perspective, when I -- when I also told the Coast
15 Guard fleet the same question, they're like oh,
16 because we don't have any radios that -- all our --
17 all our antennas are in the same kind of
18 configuration as yours. But the difference though,
19 is we actually may be broadcasting for long -- long
20 periods of times where a lot of times, you guys,
21 your conversations are shorter.

22 VICE CHAIR ALWARD: You, obviously, haven't
23 hung out with fishermen.

24 MR. GALLAGHER: I figured I'd bring it up.
25 Like I said, and the final one is just hooking up

1 the cable, again. Like I said, every time we go
2 places, we try to -- we try to beat that in. If we
3 get a couple more people to do it, it'll -- it'll
4 help us.

5 Next slide. This is Navigation Center's
6 website, and you can kind of see across the top all
7 the -- all the different categories they have.
8 Like I said, my -- my office maintains the comms,
9 but like I said, we work with some of the other
10 offices. But it's a very useful site, you know,
11 because there's navel (ph) stuff, broadcast
12 notice to mariners, local notice to mariners, stuff
13 on AIS. The stuff of AIS is useful, especially the
14 encoding guide, because it'll tell you how to set
15 up your AIS if you're doing it for the first time.

16 Next slide. And so, this -- this offers a
17 portal directly to our office because after this
18 slide, I'll show you that form you need to fill
19 out, but it'll -- if you have any topics on
20 anything on that website and you send it to it, it
21 will go to a Coast Guard subject-matter expert.
22 You know, because they may not know what to do with
23 it, but they send it to us and then we figure out
24 what to do with it. And then, like I said, like,
25 if you send it to me, and it's -- it's something

1 that's comms and SAR related or comms and nav
2 related, I'll get with my counterparts in those
3 offices, and we'll develop an answer. You know,
4 but sometimes it takes a little bit to get back
5 because we're either citing the CFR or other
6 official -- official reasons, you know, documents
7 to make sure -- you know, to show you it's not just
8 an opinion.

9 Next slide. Like I said, it'll go through and
10 it'll just collect some information and then you
11 send it. We -- we get a whole range of
12 information. I had a guy three months ago that
13 wanted to know how to get the chip out of his head
14 that the government put there. So, you're not
15 going to get to see funny -- funny -- funny
16 comments.

17 Yeah. We probably average about one or two
18 questions. And the funniest thing is our biggest
19 customer is actually other Coast Guard people who
20 have a question, and they have no idea who to ask,
21 will throw the question in there. And usually
22 we'll still -- you know, we'll farm it to the
23 correct office if it's not ours. Because like I
24 said, it's hard when you have a question and you
25 have no idea who to ask.

1 Like I said, I -- I liaised with Jonathan
2 fairly frequently as well, just -- just on that
3 topic. If you want to go to my office directly,
4 there's an email link, and that goes to our entire
5 team so it doesn't -- if I'm out of the country, it
6 won't -- you know, it won't limit how long it'll
7 take for you to get the answers. And, like I said,
8 we -- we interface with lots of offices. I work
9 with CG search and rescue. I visit them at least
10 once a week and the navigation office as well,
11 because other systems require some kind of
12 communication tool. It's our office that has --
13 has the tools.

14 Next slide. I had (indiscernible). A lot of
15 this is more for you to read. I don't want to read
16 it to you, but Jon -- Jonathan came back a couple
17 of months ago and asked us some questions, and we
18 put it up there. But the big thing is, is Starlink
19 is a data system. It's -- it's not a communication
20 system. So, there -- there's no -- there's no
21 there's no rigor to make sure that if you had to
22 make an emergency call at 2:00 in morning, that
23 Starlink would be able to connect. Where, like, an
24 Iridium and Inmarsat on their -- on their
25 equipment. There's a whole -- they get evaluated

1 four times a year, and there's a whole criteria of
2 what they need to do to -- to be a provider of
3 (indiscernible).

4 VICE CHAIR ALWARD: So, when Iridium lost
5 their Asian satellite and Alaska lost most of its
6 coverage through Iridium products, because, like,
7 of a sudden things that were approved get
8 unapproved when that happens, or do you guys
9 evaluate those systems that frequently?

10 MR. GALLAGHER: We do. Like I said, I do a
11 lot of work with Iridium because I was the -- the
12 poor fool who got to escort them to the
13 international process of being recognized. So,
14 I -- I have many conversations with them. Like I
15 said, their -- their new system is pretty amazing,
16 because like I said, there's 66 satellites in
17 orbit. And depending on where you're at on the
18 globe at any given minute, if you -- if there
19 happened to be an outage, you would not be able to
20 talk to somebody for approximately three minutes.
21 More so down towards the equator than the poles.

22 And the nice thing about theirs right now is
23 when you hit the magic red button on there saying
24 I'm in trouble, it immediately places a call to the
25 local command center, and it's a voice call and

1 someone will talk to you as soon as the Coast Guard
2 picks up or if you're in another country, their --
3 their same office. But if you said oh, I
4 accidentally hit it, then they can shut down the
5 whole apparatus of trying to get assets out there
6 to help somebody. But it's an -- it's an immediate
7 call.

8 And I know MR -- Inmarsat is working on that,
9 especially now that Iridium has it so -- to remain
10 competitive. Up in the polar region, anything
11 north of 70 -- probably closer like 65, you're
12 Inmarsat's probably going to be pretty iffy,
13 especially if you're pitching and rolling. Because
14 they're -- they're covering you from satellite
15 that's geostationary on the equator.

16 And they -- they just started making new
17 investments, but their last satellite blew up on
18 launch. And it's been kind of a -- kind of a
19 struggle. Like I said, Starlink is -- oh, go
20 ahead.

21 CHAIR DZUGAN: Is GEOStar -- Is GEOStar that's
22 the third generation that's even higher, will that
23 fix that, that satellite system that they're
24 installing?

25 MR. GALLAGHER: I think it will increase their

1 coverage, but it's not in their business model to
2 have a -- an orbiting system. So, Alaska's still
3 going to be -- and when they -- when they move
4 their satellites, I want to say it was in 2018, but
5 don't -- don't quote me. When they moved it for
6 better coverage over the land, in the Bering Sea
7 they put up -- they made the Bering Sea even a
8 bigger hole than it was before. Because you --
9 you can kind of see their maps if you -- if you go
10 to their websites. But that's -- that's a
11 projected coverage. They -- they don't put -- they
12 don't put a test unit down below there, and go hey,
13 you'll still get a signal right here.

14 I wasn't sure if you had it or not. You were,
15 like, in between.

16 MR. ROSVOLD: Eric Rosvold. I think you
17 answered the question I had. And this is one that
18 many fishers have asked me, but I don't know an
19 electronics company in Petersburg that sells marine
20 electronics, and they all took their satellite
21 radios off boat when Starlink came out, because we
22 don't need it anymore. It's a, you know, \$50-a-
23 month subscription. But according to this, they'd
24 now be in violation if they're 200 miles offshore.

25

1 VICE CHAIR ALWARD: If they stay in the
2 sidebands, they wouldn't.

3 UNIDENTIFIED SPEAKER: Well, they took the
4 sidebands off when they got to (indiscernible).

5 MS. HEWLETT: More than 20 miles offshore.
6 It's 20 miles or more.

7 MR. ROSVOLD: Yeah. So, that's interesting.
8 And I'd agree with you on the DSC radios and
9 reprogramming them. We can get Icom to reprogram
10 that radio once you've inserted that boat's
11 information into it.

12 MS. HEWLETT: Yeah.

13 MR. ROSVOLD: So, that radio's done. And the
14 other, I've done this with (indiscernible) digital
15 radars, they do pick up the ATONs where your
16 standard radar that's over five years old won't
17 pick up an ATON.

18 MR. GALLAGHER: Like I said, more and more,
19 they're doing more and more virtual and
20 synthetic --

21 MR. ROSVOLD: Yeah.

22 MR. GALLAGHER: -- and hybrid ATON. It's kind
23 of neat application, because if we have AIS
24 coverage in our area, and say we have a big ice
25 storm, and it comes and rips up every channel

1 marker, they can go in and digitally put those
2 channel -- put those buoys right back on the -- on
3 the chart, on your digital chart so you can go
4 right in instantly. Hopefully, they do a quick
5 look to make sure the buoys aren't, you know,
6 subsurfaced right underneath there and somebody hit
7 them, but.

8 MR. ROSVOLD: Eric Rosvold. Another
9 interesting thing that they're doing is putting
10 weather reporting capacity on those ATONs, so when
11 you hover your mouse over them, it tells you how
12 hard the winds blowing, what the barometric
13 pressure is. I find that really handy in the
14 Southeast.

15 MR. GALLAGHER: Yeah, the -- the weather
16 service would like to provide you more information
17 than you could ever digest on the weather at any
18 given moment. Because we got -- we have to tell
19 them hey, a five-day forecast isn't helpful when
20 the fifth day is never accurate. Especially, like,
21 him in Alaska. I mean, if you look at those
22 forecasts, and it's like it's almost comical,
23 because you're like, no, it's going to be that,
24 especially, if they give you like five days of calm
25 in a row. You're like nope. Alaska is very rarely

1 calm that many days in a row.

2 I have two more -- two more pages of Starlink,
3 because, like I said, it came up from questions
4 that Jonathan had posed to us in our office and the
5 office of SAR. I tried to make a -- the best
6 answers possible where, you know, -- where we're
7 citing stuff and then showing people the answer.

8 So, if you'd want to go to the next slide.
9 And I know it's a little bit wordy, but...

10 MR. WENDLAND: And while you're reading
11 through this, I just want to let everybody know
12 that the presentation, all this information, I've
13 seen people taking pictures and writing notes --
14 all the long website, whatever. We will have this
15 up on our web page, so you'll have a second
16 opportunity to see all this. We're going to ask
17 all the presenters -- you know, we have the
18 presentations, but we've allowed him the courtesy
19 to update it through today, and we will hang
20 these -- these presentations on our web page.

21 VICE CHAIR ALWARD: So, Alward. So, that
22 process -- because we made phone calls all the time
23 on Starlink, so it is a -- it is a communication,
24 not that it's not officially one.

25 MR. GALLAGHER: Correct.

1 VICE CHAIR ALWARD: So, that it -- in order to
2 make it be accepted, Starlink would have to come to
3 you guys and you -- to work through the whole
4 process to get them certified?

5 MR. GALLAGHER: And it's painful. It's not
6 designed to be, but it's painful.

7 MR. BOEHMER: Kris Boehmer. Why couldn't the
8 Coast Guard or the FCC go to Starlink and ask them.
9 Maybe they don't even realize -- do you think they
10 realize there's a need for this -- or -- or
11 would --

12 MR. GALLAGHER: I would imagine they've been
13 getting calls, because we haven't just heard it
14 from the fishery people. We've heard from many --
15 many different, you know -- because I got contacted
16 by Elon Musk, and they wanted to provide some
17 service, and I'm like, to -- to the world. And
18 it's, like, okay.

19 I said you don't know what you're in for,
20 because internationally we have a problem because
21 we're the big bad Americans, and it can be --
22 we're -- we're taken as bullies on some of -- some
23 of these topics. And now that -- Iridium's a U.S.
24 company. Inmarsat's now a U.S. company. And if
25 Musk did his, it's also a U.S. company. It just

1 looks like we're shoving it down people's throats,
2 even though that's not the intent; it's about
3 safety because they're not doing it.

4 MR. TERMINEL: Mike Terminal. Something to
5 look at, too, even though Starlink gets approved
6 the Coast Guard to have it being -- you can answer
7 this better, but you're going to have to have
8 redundant power supplies as well and a whole list
9 of caveats and things to go along with that, the
10 same thing -- I would assume would be the same as
11 GMDSS, the power requirements you would have to
12 have that --

13 MR. GALLAGHER: It will be. I can --

14 MR. TERMINEL: -- backup --

15 MR. GALLAGHER: -- I can -- I can promise you
16 that, that much minimum. And I think there's one
17 more. This is -- this is kind of --

18 VICE CHAIR ALWARD: Oh, there -- there you go.

19 MR. GALLAGHER: Like I said, we tried to -- we
20 tried to cover any kind of question everybody would
21 have. And like -- like I said, Jonathan was funny,
22 he sent me something probably a month and a half
23 ago because the Coast Guard's using Starlink now
24 for like two different applications, but they're --
25 but they're using it for data, because most of our

1 vessels have numerous ways of talking.

2 (Whereupon, several members speak off the
3 record.)

4 MR. VARGAS: We have Starlink on our ships.
5 We put -- Frank Vargas, American Seafoods. We put
6 two systems, one on each side, so you
7 (indiscernible) communications, because once we get
8 the (indiscernible), you know, we have an
9 (indiscernible) that's our main communications, and
10 (indiscernible) that when you get that one
11 (indiscernible).

12 THE COURT REPORTER: I can't hear him.

13 MR. WENDLAND: Can you just speak in the mic
14 for the court reporter.

15 MR. VARGAS: Who me?

16 MR. WENDLAND: Yeah.

17 MR. VARGAS: Frank Vargas with American
18 Seafood. So, like I said, we have Starlink systems
19 on our ships. And the reason we went to them,
20 because when we get farther up north -- north of 60
21 North, we have no coverage with Inmarsat.

22 MR. GALLAGHER: Yeah. The Navy's done
23 studies, but I can't share the results with you on
24 that.

25 Next slide. We do a lot of work with the

1 Coast Guard Research and Development Center, and a
2 lot of these topics you're talking about, SENDs
3 devices, the iPhone people have been pestering us.
4 First they thought they were going to go right into
5 IMO and show the idea, and I'm like you're not
6 going to get there that fast. And we've been
7 doing -- doing some testing, but we're supposed to
8 sit down with them to find possible -- because the
9 Coast Guard's all about finding people and rescuing
10 them.

11 We don't -- we don't care about the tool, but
12 we also don't want people to risk their lives
13 thinking that tool is going to be their Godsend,
14 and you just happen to be in an area that it
15 doesn't work. We've seen that a lot because more
16 and more people are using cell phones instead of
17 VHF radios. But the companies still haven't aimed
18 their antennas out to the water yet, so it's kind
19 of hit or miss. Sometimes you get great coverage,
20 a lot of times you (indiscernible).

21 CHAIR DZUGAN: Eric?

22 MR. ROSVOLD: Eric Rosvold. When we're
23 talking about SEND devices, I know the NTSB just
24 recently recommended that fishermen carry those,
25 but a SEND device, isn't it the one that requires a

1 subscription?

2 MR. GALLAGHER: Correct.

3 MR. ROSVOLD: So, it's not free. It's 50
4 bucks a month?

5 MR. GALLAGHER: Yeah, I don't know. I don't
6 know the cost, but like I said, that's why I said
7 there's so many devices that do the exact same
8 thing or very similar --

9 UNIDENTIFIED SPEAKER: ZOLEO?

10 VICE CHAIR ALWARD: Those are all SENDs.

11 MR. GALLAGHER: Like I said, some of it's just
12 matching the risk -- the risk you have and what --
13 what would be best for your businesses. You know,
14 because, we don't -- we don't endorse. I mean, we
15 -- we know how things work, but bad mouth or -- or
16 praise a company.

17 CHAIR DZUGAN: This is Jerry Dzugan. We had
18 an incident where we lost two young men a few
19 months ago outside of Chichagof, which is kind of a
20 dead hole often for VHF. And the first signaling
21 device they used that got attention was the iOS
22 cell phone, latest on, 16 and 17, right. But I
23 found out -- and maybe it works with other devices,
24 too. It goes through Apple first before it goes to
25 emergency services.

1 MR. GALLAGHER: Most of these devices do,
2 and -- and that's the difference, because that's
3 what I was saying if someone was only five o'clock,
4 and they have a problem, are they staying to
5 troubleshoot it to make sure that their system is
6 up and running. They don't have a 24/7
7 requirement, right?

8 CHAIR DZUGAN: This is a personal question
9 I've always wondered about. I'm going to take
10 advantage of this second. So, I haven't renewed my
11 subscription, but I still have the device, and I
12 send an emergency off, what happens to it?

13 MR. GALLAGHER: I would -- I would think they
14 would process it out of the kindness of their
15 hearts. They're also making money, so you might
16 get a text back saying who's this.

17 MR. CALDERON: You go to Starlink and you ask
18 that one, they say they're not responsible because
19 they're going to put you in (indiscernible). Go to
20 their web page. It's there. That's why they don't
21 recommend people to use what they call the RBC
22 service, the one for (indiscernible) in the U.S. in
23 the water. Because they catch you using it in the
24 water, go to that limbo area, they're not going to
25 transfer communication.

1 MS. HEWLETT: (Indiscernible) --

2 MR. CALDERON: Yeah, --

3 (Whereupon, Ms. Hewlett and Mr. Calderon speak
4 simultaneously.)

5 MR. CALDERON: They canceled -- they canceled
6 everyone. Yes.

7 THE COURT REPORTER: No, I'm sorry, it was --
8 I couldn't hear you.

9 MS. HEWLETT: Oh, sorry.

10 CHAIR DZUGAN: That was really informative,
11 but we should move on. But are there any other
12 questions first. That was great.

13 MR. GALLAGHER: I'm around all the rest of the
14 day, too. Go back to DC tomorrow.

15 MR. WENDLAND: Thank you, Patrick. Great
16 information. Really appreciate you being here.
17 So, a couple -- couple takeaways for that, right.
18 How cool is it that you've been provided access to
19 Coast Guard navigation, like a web page, you got
20 any question, you can send it in and get an answer
21 to? So, super powerful right there, super powerful
22 information. Again, we'll put this up on our web
23 page. So, when you got those questions -- and the
24 best thing is, they may not reach my desk now. So,
25 I'm trying to echo that thought. And so, they'll

1 go to the right subject-matter experts within the
2 Coast Guard. Super powerful tool.

3 The second thing, you know, a takeaway on
4 that, you know, for our coordinators there and the
5 examiners that the -- you know, that they oversee,
6 we just saw that, you know, obviously Starlink is
7 not approved with the Coast Guard as a primary
8 source. Vessels can have that on their --
9 operators can have it on their vessels, but
10 obviously, not as a primary source of communication
11 in an emergency situation. So, our coordinators
12 that can reference this. And I think I had
13 mentioned in the past that we're going to put this
14 out in the CID notes; however, this wasn't really a
15 CVC3, you know, full picture type of thing that we
16 own, so I think it's -- you can reference
17 that now, that CG672. You know, I was kind of
18 working through all these other offices in the
19 Coast Guard. So now, you have that information
20 that can pass on to the industry that -- that's
21 not -- you know, it's kind of a no-go there to have
22 that as a primary source, which we've talked about
23 in the past.

24 We are running a little late for our next
25 presentation, I think about 40 minutes. But

1 I'll -- and I'm looking at you, Jerry, if you want
2 to push on through with this one prior to lunch,
3 which we can do, because we do have a little time
4 on the agenda, like, after lunch, so not a big
5 problem. But, of course, just want to get your
6 thoughts on that.

7 CHAIR DZUGAN: I was looking at you, too. I
8 was going to ask the committee if we could -- it's
9 almost noon now, if we could break for lunch now
10 and then come back and get the full 40 minutes, or
11 we can, you know, do it after 40 minutes. It's up
12 to the committee. It just means having a later
13 lunch or lunch now. I -- I don't want to
14 interrupt, like, right in the middle of his talk
15 because people are getting stomachs that are
16 growling, or do you care? Are you good to go for
17 40?

18 UNIDENTIFIED SPEAKER: I'm good to go for 40.

19 CHAIR DZUGAN: Okay. No, all right. We'll
20 move on.

21 MR. WENDLAND: All right. We'll move on to
22 the second presentation then. And the presentation
23 is going to discuss a merchant mirror -- mariner
24 credentialing. So, with us today is Mr. Mike
25 Eichelberger out of CG-MMC. And with no further

1 ado on that, Mr. Eichelberger, the floor is yours.

2 And thank you for being here.

3 MARINER CREDENTIALS

4 MR. EICHELBERGER: Can you hear me?

5 MR. WENDLAND: Yeah, better.

6 MR. EICHELBERGER: All right. Thanks
7 everybody for having me here today. Again, my name
8 is Brian Eichelberger. I'm from the Office of
9 Merchant Mariner Credentialing. We're shifting
10 into the world mariner credentialing now. Discuss
11 some key points within our program.

12 I been with the Coast Guard since 2008 as a
13 civilian. I've been in Headquarters for the last
14 four years and merged under CG-MMC and I previously
15 worked at the National Maritime Center before I
16 came to DC. So, again, it's good to be here, and
17 I'll discuss mariner credentialing with you today.

18 Next slide, please. So, a couple of key
19 points. Today I want to give you an overview of
20 the credentialing program itself so you have a
21 better understanding of, you know, our little
22 entity within the Coast Guard, discuss TWIC
23 requirements as it pertains to the mariner --
24 merchant mariner commercial application process, so
25 those two are -- go hand in hand. Basically, the

1 MMC application process -- I'll kind of discuss how
2 the -- how it flows through our program with
3 mariners apply for an MMC and the different stages
4 it goes through.

5 Number four there was discuss specific MMC
6 requirements for uninspected passenger vessels.
7 So, the sea service, the training, everything a
8 mariner needs to get that endorsement. And then
9 number five there, we'll discuss vessels less than
10 200 gross registered tons MMC requirements, which
11 would include certain fishing vessels, but it
12 encompasses all vessels under 200 and what mariners
13 need to hold in order to work on these vessels.

14 Mainly the presentation deals with vessels
15 less than 200, but I do want to discuss some
16 manning requirements for -- specific manning
17 requirements for vessels greater than 200, just so
18 you have a, kind of, understanding of, you know,
19 those vessels and what mariners need to hold. And
20 then finally, just briefly tusk -- touch on your
21 taskings there because they're specific to
22 credentials and endorsements that potential
23 mariners will need to hold and requirements for
24 those, so you have an understanding of what
25 mariners need in order to obtain those credentials.

1 Next. Okay. Just for a brief overview, so
2 we're under CG-5PS, director of commercial
3 regulations and standards. My office CG-MMC there.
4 We're the program office over National Maritime
5 Center, which the National Maritime Center is kind
6 of where the meat and potatoes is with
7 credentialing, which we'll get into more. They'll
8 do -- they do all credentialing aspects there, or
9 they do the evaluations of the applications and
10 they, ultimately, issue credentials there. So, my
11 office does the policy and regulation for mariner
12 credentialing that the MMC follows, among other
13 things that we do there. But as far as
14 credentialing, we do write the policy, write the
15 regulations as they change, and then it's
16 implemented by the National Maritime Center where
17 they issue credentials.

18 And then under there is the Regional Exam
19 Centers under the National Maritime Center. So,
20 they're throughout the United States. They do
21 three key things. They do -- take in applications
22 from mariners. Mariners can submit them
23 electronically, go to the RECs and submit it, or
24 mail to the RES; however, they want to do it. And
25 they do a precheck of the application, which will

1 eventually be sent to the National Maritime Center.

2 The RECs also do mariner examinations, so for
3 certain endorsements that mariners need to test on,
4 they'll schedule there and do their exams there.

5 And then finally, they do oversight on the 300-plus
6 mariner training programs that are approved by the
7 Coast Guard. So, they do oversight on those as
8 well, to make sure they're in compliance with what
9 they're approved for.

10 So, that's kind of a brief overview and a
11 visual there what our org chart looks like and what
12 the different functions.

13 So, TWIC requirements. So, TWIC is part of
14 the application process. And TWIC is actually,
15 issued by the TSA. It's not issued by the Coast
16 Guard. And the requirements for mariners to hold
17 TWIC are there in 46 CFR 10.203. So, it's
18 important to understand that every mariner that is
19 in for an original MMC must have applied for a TWIC
20 and be approved, because that's the way the Coast
21 Guard gets the background information on the
22 mariner. Fingerprints are conducted through TWIC
23 and TSA, and that data is sent over to the National
24 Maritime Center. They'll either be TWIC approved
25 or TWIC denied.

1 VICE CHAIR ALWARD: Matt Alward. So, let's
2 say theoretically there was a regulation that all
3 commercial fishermen had to hold the MMC. If they
4 couldn't pass the TWIC requirements, they couldn't
5 get through MMC, and thus, they couldn't be
6 commercial fisherman.

7 MR. BOEHMER: Kris Boehmer. How old do you
8 have to be to get a TWIC card?

9 MR. EICHELBERGER: I think you have to be -- I
10 think it's 18, I believe. I'll have to look into
11 that, but. I'll get back to you for sure, but I
12 think that's what it is.

13 Yeah, so this is for every -- again, every
14 original MMC, they must be -- go through TWIC and
15 be approved. And then there are TWIC exemptions,
16 which is the next slide. So, the exemptions for
17 TWIC are policy letter 11-15. So, basically, this
18 says mariners with a valid TWIC who operate onboard
19 vessels that do not have a security plan and are
20 wanting to renew an MMC, it does not have to be
21 TWIC approved. And they also list vessels that
22 when mariners come in to renew, they do not have to
23 go through TWIC again. And again, this is for
24 mariners that wish to renew an existing credential.
25 So, uninspected passenger vessels less than 100

1 gross tons, they do not have to come in -- back and
2 renew and get a TWIC if they hold that -- if
3 they're working on those types of vessels.

4 Number II there, vessels inspected under
5 subchapter T, which are, obviously, those inspected
6 vessels that are less than 100 GRT, except those on
7 the International voyages, of course. They also do
8 not have to hold a valid TWIC if they come and
9 renew, and then those different types of towing
10 vessels also do not have to come back and renew.

11 So, it's -- it's really important, but TWIC
12 is -- you got to understand that original MMC,
13 mariners coming in for original MMC must go through
14 the TWIC process. So -- and get a TWIC.

15 CHAIR DZUGAN: But are they required --
16 although they're not required to have a TWIC card?
17 Do -- are they required to have a background check?

18 MR. EICHELBERGER: Yeah, if it goes through
19 the TWIC process, it goes the background check,
20 finger prints --

21 CHAIR DZUGAN: That's --

22 MR. EICHELBERGER: Yeah.

23 CHAIR DZUGAN: So, you still have the
24 background check?

25 MR. EICHELBERGER: Yes, you do. It -- yeah.

1 If they renew and they're working on those vessels
2 and they don't hold a valid TWIC, a background
3 check will be done at the National Maritime Center.
4 Yeah.

5 So, just to go through the application process
6 so you have an understanding what the stages are
7 that a mariner goes through when they submit. The
8 first process is as -- there's 17 regional exam
9 centers throughout the United States with two
10 monitoring units. So, that's the first step for
11 the mariner to do is submitting an application to
12 one of these RECs at the locations.

13 Next slide, please. So, when the mariner
14 submits it to the REC, a complete application is,
15 obviously, the perfect TWIC if it's an original --
16 an original mariner. The application CG-719-B,
17 which is the actual application for a merchant
18 mariner credential. It has to be completely filled
19 out. Everything within that doc -- within that
20 form, a signed conviction statement, which is the
21 17 -- 719-C.

22 So, that's part of the application. Basically,
23 that's mariner -- any convictions they had in the
24 past, which would come up during TWIC. It's,
25 essentially, where they're putting down, you know,

1 that the acknowledges those convictions and it's --
2 you know, it's on there. That'll come out in the
3 background.

4 Drug test results for -- which is the CG-
5 719-P, so any credentialed mariner must -- must go
6 through a drug testing program. You know, if you
7 own an MMC, it must be -- and with the application,
8 it must be within six months of the application
9 date. It can't be any longer than that of proof of
10 drug test.

11 And then the evaluation fee must be paid up
12 front. There's three fees that mariners pay: the
13 evaluation fee, there could be a testing fee, and
14 then there's an issuance fee. But the one that's
15 due up front is the evaluation fee, which is -- it
16 could depend on what credential you're applying
17 for. And then eventually the issuing fee needs to
18 be paid, but it doesn't need to be paid up front.
19 So that's the only one thing that's -- that's
20 required.

21 And some other information for the application
22 would be course certificates. So, whatever the
23 mariner is applying for, if you went to an approved
24 training school and he has certificates to provide
25 for that endorsement, he'll submit that. Or in the

1 sea service that are sea service requirements,
2 which we'll get into a couple slides, they'll
3 provide that. Third-party authorization form. So,
4 some mariners hire third parties that will work on
5 behalf of them submitting applications, because
6 they don't necessarily like to deal with the Coast
7 Guard in submitting applications, so they'll hire
8 somebody to act on their behalf. And on the actual
9 application, there's a spot to where they can fill
10 in who that is and authorize them to do work on
11 their behalf to submit this.

12 So, and then any other information they feel
13 is necessary for the application. So, they -- that
14 is all submitted to the REC right up front, which
15 is the first step.

16 MR. THEILER: Mike Theiler. Incidentally,
17 that -- that 17-C form is also a -- there's also
18 physical form on there.

19 MR. EICHELBERGER: Yes, sir. Yep.

20 MR. THEILER: So, that's -- that's pertinent
21 because it's coming up --

22 MR. EICHELBERGER: Yep.

23 MR. THEILER: -- in one of our tasks. So, you
24 know, there's -- there is that DOT-type physical.

25 MR. EICHELBERGER: Yes. Yep. And I'm

1 touching on it a little later, but yeah, there is a
2 medical form. Yeah.

3 So, once the REC determines that everything's
4 good to go, they'll send it to the National
5 Maritime Center. There's no evaluations done at
6 the regional exam centers. It's all done at the
7 MMC. So, once the application gets to the MMC, the
8 first step is a safety and suitability evaluation.

9 So, obviously, this branch is already getting
10 the TWIC information, so they're just
11 double-checking things. If the mariner puts other
12 convictions on their 719-C, they can go in certain
13 databases and look up -- state databases and look
14 up those charges and see if anything's pending that
15 should result in, like, a denial letter to them.

16 So, obviously, this is where they make sure
17 mariners are safe and suitable to hold the
18 credential. So, some examples, obviously, is
19 homicide, assault, destruction of property,
20 dangerous drugs. And, obviously, a big thing now
21 with the Coast Guard is SASH, or sexual assault and
22 sexual harassment where they can be denied a
23 credential if they have pending -- pending charges
24 or previous charges like that. Some of these are
25 within a couple years' span where they can be

1 denied, such as like a DUI within a year, they can
2 be denied and things like that.

3 So, if they're deemed safe and suitable, then
4 it moves on to the next -- sure. Yeah?

5 CHAIR DZUGAN: Jim.

6 MR. EICHELBERGER: Jim Kelly.

7 MR. KELLY: Do -- do they have to be a U.S.
8 citizen or work permit to be able to pass these?

9 MR. EICHELBERGER: Like, a U.S. citizen?

10 MR. KELLY: Yeah.

11 MR. EICHELBERGER: Yeah.

12 MR. KELLY: You have to be a U.S. --

13 MR. EICHELBERGER: You have to be a U.S.
14 citizen to hold an office or endorsement, you know.

15 So, on next slide, please. So, the next --
16 next thing that application goes through, which is
17 a big deal at the National Maritime Center. This
18 is one of the main branches, the prep --
19 professional qualifications branch. So, once it
20 comes over here, the -- the evaluators in this
21 branch look at their professional qualifications as
22 it relates to whatever they're applying for. So,
23 they look at sea service, they look at training,
24 any assessments needed for, like I said, the
25 protective endorsement they're applying for, and

1 make sure the mariner has all of that. The
2 utilize -- utilize checklists that have all the
3 current regulations on there.

4 Essentially, go through and make sure sea
5 service is covered, the training's covered. That
6 way they can determine if the mariner qualifies
7 professionally for what he's applying for. And
8 once that evaluation is done, the application can
9 go in three different stages. Awaiting information
10 is mariner's missing -- say, short on sea service,
11 a letter is sent to them detailing what they're
12 missing, which that stops the process. So, they
13 have -- the mariner has 90 days to get that
14 information back in before the credential or
15 application can move on. So, and unfortunately,
16 more than half of applications submitted that come
17 in result in AI. So, it's not fully -- they don't
18 provide everything they need right up front, which
19 is -- holds things up for the mariner.

20 Next one. And that's when they can go to
21 approved to test, if they're deemed, you know,
22 ever -- qualified for everything, and they need to
23 take an examination, they'll be approved to test,
24 which is valid for one year. And the mariners can
25 schedule with the REC to go in and take that exam.

1 Now, if they have everything they need, it'll be
2 put in approved print, and the credential --
3 credential will be issued in mariner. So, that's
4 the three steps that can come in after the
5 evaluation of the PQEB.

6 MR. KELLY: Jim Kelly. Is that a lifetime
7 once you've taken the test, you're done, or is
8 there each year, two years, five years, however?

9 MR. EICHELBERGER: Yeah. Yeah, it's -- like,
10 say a guy comes in for -- if a guy or girl comes in
11 for a master 100, takes the test, it's good for
12 lifetime as long as he keeps sea service to renew.
13 So, if he doesn't have the required sea service to
14 renew every five years, then it will be an open-
15 book renewal exam. So, that first initial test is
16 valid for -- for life.

17 Then as mentioned, the medical evaluation
18 Branch. So, one thing I want you to understand
19 what this is, this is two different credentials.
20 So, you have the MMC, and then you have the medical
21 certificate. And the medical certificate is issued
22 separately from the MMC. Most mariners apply for
23 them at the same time, but they go, kind of, two
24 different directions.

25 Obviously, this goes directly to the Medical

1 Evaluation Branch. And, essentially, the
2 application is a physical form where the mariner
3 goes to see a doctor, and it's filled out.
4 Everything that's required on that medical form is
5 filled out by a doctor, and it's submitted to the
6 MMC to where they have physicians there that'll go
7 through and look at, you know, what was the
8 submitted on the physical form. If they need any
9 amplifying information, they'll go back to the
10 doctor to get it, as well as the mariner so they
11 can provide.

12 This is just to make sure that they're
13 medically qualified to hold the credential that
14 they're applying for. So, they do have waivers
15 when the medical certificate, such as, maybe,
16 corrective lenses or hearing aids that could be put
17 on there, and there are certain conditions that
18 require a yearly checkup, such as -- if I can
19 remember offhand, mariner -- or you -- for using
20 CPAPs and things like that. So, they're required
21 to come in a year later to provide an update on,
22 you know, their status with -- with a doctor, of
23 course.

24 So, if they're medically cleared and,
25 obviously, the medical certificate issued -- it

1 will be issued. It's usually for five years. For
2 mariners that hold an SCCW, which doesn't really
3 relate to this, they're every two years to make --
4 they have to come back and get a new med cert. So,
5 that's -- that's -- that's, essentially, the
6 Medical Evaluation Branch and what they do there.

7 So, next slide. Obviously, everything's
8 completed. So, we issue the merchant mariner
9 credential there. We -- we recently just changed
10 the credential. I'm not sure if everyone heard
11 about that. That was a big thing. We did have a
12 passport-style credential. March 1st, we went to
13 this eight-and-a-half-by-11 credential, which is
14 valid for five years.

15 And that first page there's actually the back
16 of it. It's front and back. That's where all the
17 mariner's credentials will be -- or endorsements
18 will be issued or listed. And then that's where
19 the mariner's information will be on the front
20 there. So, it's made of some synthetic
21 tear-resistant, water-paper with about 10 security
22 features, which prevents it from being duplicated.

23 So, that's credentialing in a nutshell.
24 Again, I just wanted to give you an idea of, you
25 know, what the goes through when a mariner applies.

1 About right now, it's -- I think it takes him 30
2 days from start to finish. Yeah, it's -- I know.
3 The difference is the amount of applications that
4 come in, and they're try to keep up with it.
5 That's kind of where it is. It could be -- I don't
6 know the statistics right now, but that's the
7 way -- that's the way it's been, so.

8 CHAIR DZUGAN: Ben has a question for you.

9 MR. DAUGHTRY: Thank you. Ben Daughtry, for
10 the record. With corrective lenses, is it similar
11 to U.S. Coast Guard captaining where, if your
12 uncorrected vision is above a certain amount, then
13 you cannot get the card?

14 MR. EICHELBERGER: Yes. Yep. Exactly.

15 MR. THEILER: So, right now, we're -- Mike
16 Theiler. Sorry. We have approximately, thirty to
17 forty thousand commercial fishermen in the United
18 States. I -- I actually, -- not about me, but I do
19 have an application that's still in the security
20 process over for 30 days for three errors and spent
21 three hours on the phone with a third party that
22 was virtually useless. How do you expect to --
23 to -- if this is implemented, do you have the
24 capacity to process that many applications in a
25 timely fashion?

1 MR. EICHELBERGER: Yeah. Yeah, I would say
2 so. I mean -- I mean, the MMC's been doing it for
3 years now. And I mean, we credential over 200,000
4 mariners now. And just typically -- I mean, I
5 don't work at National Maritime Center now, but
6 that's their target is that 30 days right now. I
7 don't -- I don't see bringing on additional
8 mariners being credentialed would have too much of
9 an effect on that.

10 But it -- it's now -- what was really holding
11 us up was actually the actual credential. So, we
12 had a major backlog in the passport-style
13 credential because the printers were always
14 breaking. So, now we switch to this type of
15 credential that it's on desktop printers, and
16 they're just cranking them out now.

17 So, I realize that what holds up is the
18 awaiting information. And that's a big issue of,
19 you know, applications not being complete. And
20 that's a big problem. So, it's -- it's really
21 important to ensure that, you know, when mariners
22 are applying for MMCs that, you know, everything is
23 there, everything that's required that they need
24 that's in that file so they can go through pretty
25 quickly.

1 So, like I said, it's over 50 percent of the
2 applications that come in now are incomplete. And
3 that's -- that's -- that's out of the control,
4 obviously, of the Coast Guard MMC. It's just --
5 it's important to make sure that they have
6 everything they need, you know, as far as what's --
7 what they're applying for.

8 CHAIR DZUGAN: I have -- this is Jerry. I
9 have a similar kind of question. Are you fully
10 staffed? In other words, do you have the funding
11 that you need, which is kind of the other side of
12 what my --

13 MR. EICHELBERGER: Good point. There -- there
14 are some vacancies at the MMC. And, you know, we
15 put in a couple of resource proposals, you know,
16 headquarters for the next couple FYs to get a
17 couple more bodies. One of the big things is,
18 like, course oversight. That's another big thing.
19 And that's -- that we're shorthanded on, to keep
20 oversight of third -- third party -- or testing
21 providers.

22 But it's always -- we always put money (sic)
23 in. We do -- I mean, we don't get a lot of
24 funding, you know. It gets cut, but we do put in
25 to get more bodies to be more evaluators and get

1 them up to speed so we can have a better result of
2 getting these credentials much quickly (sic).

3 So, we did it for the last few years. It
4 hasn't looked good for FY '25 or '26, but we put in
5 every year to get more bodies, you know. Because
6 we don't want -- we, obviously, don't want a
7 backlog in credentials and mariners waiting to get
8 these credentials because they got to go to work.
9 So, you know.

10 CHAIR DZUGAN: You have more of the
11 presentation?

12 MR. EICHELBERGER: Yeah.

13 CHAIR DZUGAN: Okay.

14 MR. EICHELBERGER: Yeah, we can --

15 CHAIR DZUGAN: -- I see --

16 MR. EICHELBERGER: -- the next slide.

17 So, this is just -- I wanted to briefly go
18 through this -- these next couple slides with you
19 on the requirements for uninspected passenger
20 vessels. So, the endorsement that we will issue
21 for uninspected passenger vessels, which is less
22 than 100 gross registered tons will be OUPV near
23 coastal MMC endorsement.

24 So, the sea service requirements listed there,
25 obviously, for every -- every -- officer cert.

1 endorsement, you must have 90 days of recency
2 service. So, that's 90 days of service within the
3 last three years, which is important because
4 that's -- that's number one sea service
5 requirement.

6 VICE CHAIR ALWARD: Matt. So, if you'd just
7 explain what -- what qualifies as a sea day.

8 MR. EICHELBERGER: Four in -- at least four
9 hours. Yep, at least four hours on the water. So,
10 and then the total sea service required for OUPV
11 near coastal is 360 total days of service. So,
12 that's only near coastal, ocean, or Great Lakes.
13 So, 360 total days, and then 90 of those -- 90 of
14 those days must be on ocean, near coastal, or Great
15 Lakes, so. That's the sea service requirements.

16 And then we have other requirements was the
17 first aid, CPR, which is pretty obvious. First aid
18 must be within one year for an original only, and
19 then CPR must be valid. And then exams are
20 required. So, a mariner can take the Coast Guard
21 exam at the regional exam center if they wish to,
22 or they can go to an approved training provider and
23 take a course in lieu of -- in lieu of the exam.

24 MS. HEWLETT: Yeah, Barbara Hewlett. I heard
25 recently that you can, actually, take the final

1 exam online now. There are websites that are
2 advertising where you don't have to physically sit
3 in front of a person and take the exam. That's --

4 MR. EICHELBERGER: I don't --

5 MS. HEWLETT: -- a little scary, but --

6 MR. EICHELBERGER: Yeah, I mean, --

7 MR. LEDERMAN: -- that it's out there.

8 MR. EICHELBERGER: Because at -- I don't want
9 to -- I'd have to look into that, because every
10 third party or, you know, testing facility like
11 that has to be approved by the Coast Guard. So, --

12 MS. HEWLETT: It's -- it's out there.

13 MR. EICHELBERGER: I mean, the -- if the
14 mariners are doing something that's not approved by
15 the Coast Guard and submitted, the evaluators will
16 hopefully check that and, you know, yeah.

17 MS. HEWLETT: Yeah. The website, I looked it
18 up because I'm -- I have a 100 ton, but -- and I'm
19 that person in the keys that helps people --

20 MR. EICHELBERGER: Sure.

21 MS. HEWLETT: -- put their packages together
22 for originals and renewals. They all come to me,
23 and I make sure it's all put together so it doesn't
24 get held up.

25 MR. EICHELBERGER: Sure.

1 MS. HEWLETT: And a friend of mine came up to
2 me, and she's like, Yeah, I'm just doing everything
3 online. I'm like, Yeah, but you still have to go
4 down and, you know, see Mike in Big Pine --

5 MR. EICHELBERGER: Right.

6 MS. HEWLETT: -- and sit in front of him, --

7 MR. EICHELBERGER: Yeah.

8 MS. HEWLETT: -- you know. I mean, the
9 practice and all that's online, and it's pretty
10 easy to pass now.

11 MR. BOEHMER: (Indiscernible.)

12 MS. HEWLETT: Yeah, but it says it's Coast
13 Guard approved, and she's -- she paid like \$800.
14 And she's, like, oh, it's proctored. You have to
15 sit in front of a camera, and --

16 MR. EICHELBERGER: Okay.

17 MS. HEWLETT: -- they watch you to make sure
18 you're not looking down --

19 MR. EICHELBERGER: Okay.

20 MS. HEWLETT: -- and, but that's still --
21 like, it kind of takes out the accountability and
22 the -- the challenge of getting one.

23 MR. EICHELBERGER: Sure, no.

24 MS. HEWLETT: It makes it way too easy, I
25 think.

1 MR. EICHELBERGER: Right, no, I agree. I
2 mean, if it's, obviously, approved, then it's been
3 approved by the MMC and, I guess, that's -- they
4 were -- it's another way to allow mariners to --
5 like you said, it's better to go in and do it, but
6 I guess they deemed it, you know, approved worthy,
7 so.

8 So, that's -- that's, essentially, though,
9 your requirements. And the next slide, this is
10 vessels less than 200 gross registered tons, which
11 would include, you know, certain fishing vessels
12 and passenger vessels. Again, 90 days of recency
13 is required for -- for a master 200, you need 720
14 total days of deck service with 360 of those days
15 must be on or near coastal waters.

16 Now, the next requirement is what I want to
17 differentiate from the next slide is, for a 200-ton
18 master, mariners must have 360 days of service as a
19 master or mate while holding an MMC endorsement.
20 So, a mariner who has never held a credential
21 cannot come off the street and get a master 200, or
22 less than 200. They must have held a credential,
23 worked on that credential for at least 360 days as
24 a master or mate or OUPV. So, that's an important
25 detail with that.

1 VICE CHAIR ALWARD: But that doesn't apply to
2 100 ton?

3 MR. EICHELBERGER: No.

4 VICE CHAIR ALWARD: Just 200?

5 MR. EICHELBERGER: Yeah, which I'll have in
6 the next one. Yep. So, for 200 ton, you also have
7 to have tonnage requirements, so 25 percent must
8 have been on the vessel over 100 GRT or above, or
9 360 days on vessels 67 GRT, or both. So, to meet
10 the 200-ton requirement. So, there's sea service
11 and tonnage requirements for this.

12 Next slide, please. Then, obviously, the same
13 first aid, CPR, and complete the exam or a
14 Coast-Guard-approved course. So, the big thing
15 with the 200-ton is they need that 360 days as the
16 master or mate while holding.

17 So, the next slide would be the 100-ton --
18 100-ton master. Yep, so it's, essentially, the
19 same amount of days, 720 days service on deck with
20 360 days near coastal; however, you do not need the
21 360 service as a master or mate or OUPV. So, this
22 could be an original license for a mariner if they
23 -- if they meet the tonnage requirements. So, for
24 100 ton master, you need 25 percent on vessels over
25 51 GRT or 360 on vessels 34 GRT or above.

1 Now, if they don't qualify for that, they can
2 qualify for a 50 ton, which you see there is 25
3 percent on 26 GRT or above or 360 days on 17 GRT or
4 above. So, if they don't qualify for either one,
5 then they'll automatically get a master 25. So,
6 for this, for the 100 ton near coastal, there's
7 three different categories there that they can meet
8 if they meet the tonnage requirements, 150 or 25.
9 And once the mariner -- say he gets a 50-ton master
10 and he starts working on it, he can move on up to
11 100 ton if he has the right -- right time on the
12 G -- on the particular GRT.

13 Of course, the same requirements there, first
14 aid, CPR, exam and course completion certificate.
15 All right. So again, this was geared towards more,
16 you know, vessels less than 100, but I did want to
17 touch briefly on vessels greater than 200 and
18 mariners in certain capacities on these vessels.
19 So, for instance, if a mariner is serving as a
20 master on a vessel greater than 200, the main
21 requirement there with 15.805(a) is they must --
22 any individual holding a valid MMC with endorsement
23 as a master is in command of every self-propelled,
24 seagoing documented vessel of 200 GRT or above.
25 So, they must have a master -- MMC endorsed as a

1 master greater than 200.

2 So, same with mate there. If you're serving
3 as mate, an individual -- individual in charge of a
4 navigation or maneuvering of a self-propelled,
5 uninspected, documented seagoing vessel of 200 GRT
6 or over must have the appropriate MMC as a mate.
7 And then finally once -- you know, once you get on
8 those vessels over 200, they have, obviously, an
9 engine room or can have an engine room. So, anyone
10 serving as an engineer or chief engineer on a
11 vessel over 200 GRT must have that capacity or hold
12 that capacity on their MMC. And that's 15.810(c)
13 for mate, 15.810(a) for engineers and chief
14 engineers. So, that's just, you know, for vessels
15 over 200. Just so, you know, you have an idea with
16 this.

17 And there's specific endorsements there, MMC
18 endorsements. It would be master/mate 500/1600 or
19 above. We go -- obviously, if we go to unlimited
20 license, chief engineer or assistant engineer or
21 vessels greater than 200. Obviously, again, they
22 go to unlimited horsepower. And then master or
23 mate uninspected fishing vessels 500/1600 or above,
24 and the same with the chief engineer and assistant
25 engineer for vessels over 200.

1 So again, more here towards, you know, less
2 than 200, but I wanted to give you, you know, that
3 specific requirement for vessels greater than two.

4 Okay. So, last couple slides here, I just
5 want to briefly touch on, you know, your -- your
6 task statements. 15-24 as we mentioned, this is,
7 you know, recommendations for the Commandant to
8 obtain legislative authority to require commercial
9 fishing vessel operators of less than 200 gross
10 tons to hold a valid Coast-Guard-issued mariner --
11 merchant mariner credential and additional measures
12 to require crew members on those vessels a crew
13 competency certificate or an MMC.

14 So, I guess, I just have the benefits here
15 for, you know, requiring credentialed mariners to
16 operate on CFVs. Obviously, ensures operators and
17 deckhands to have the proper experience to serve on
18 those vessels, having to meet a standard total sea
19 service requirement, operate a standard amount of
20 days on certain waters, obviously, near coastal
21 days, and required to have a standard number of
22 days on, you know, certain tonnage vessels to be
23 master 100 or 50 or 25 GRT.

24 And 2), it ensures operators and deckhands
25 have the proper training, required to complete

1 Coast Guard approved training, which would involve
2 seamanship, practical demonstrations, when they're
3 being examined, you know, they have chart plots and
4 things like that, which is No. 3 there, they have
5 the proper knowledge to serve on those vessels by
6 completing a Coast Guard exam.

7 And No. 4, obviously, required to participate
8 in a random drug testing program or consortium, so
9 a credentialed mariner has to be in some type of
10 testing program, whether it be through their
11 company or through some sort of consortium so
12 they're randomly tested.

13 So, the next statement here, feasibility of a
14 multi-year phase-in implementation that all CFV
15 mariners on CFVs less than 200 and operators on
16 near coastal waters obtain a merchant mariner
17 credential.

18 Again, I wanted to give you the requirements
19 for, you know, those endorsements so you
20 understand, you know, what the mariners need to
21 have and to submit in order to get those
22 endorsements to meet this. So, kind of give you an
23 idea of how you -- how you could phase it in, and
24 recommendations for that.

25 So, that's a sea service, again, requirements

1 for masters less than two. Obviously, again, I
2 know it says without a TWIC; however, for an
3 original MMC, they will have to go through a TWIC.
4 So, just remember that. And then, you know, again,
5 once those mariners serving on those type of
6 vessels that are listed in the exemptions, they
7 cannot renew a TWIC or be TWIC valid after that.

8 So next slide, please.

9 CHAIR DZUGAN: Could you go -- could you go
10 back to that -- this is Jerry -- to that
11 previous -- yeah, echo -- that previous slide?

12 MR. CALDERON: (Complies with request.)

13 MR. EICHELBERGER: And then again, this one is
14 a recommendation on the multi-year phase in for
15 mariners to obtain an OUPV. And again, that's the
16 requirements there for an OUPV. The 360 days
17 total. And again -- again, these last two slides,
18 I knew the tasking is to, you know, think of a
19 multi-year phase in for these types of mariners to
20 be credential -- credentialed. Again, I wanted to
21 give you an idea of what the requirements were,
22 what -- what's involved in getting it, so you can
23 kind of make an informed decisions on, you know,
24 what that potentially could be.

25 So, with that being said, next slide. I

1 think -- I'm pretty sure -- yeah?

2 CHAIR DZUGAN: Barb has a question, and I have
3 a follow up. Yeah, we'll go around.

4 MS. HEWLETT: Yeah. I know this is going to
5 be a -- Barb Hewlett -- a big discussion tomorrow.
6 We've gotten the opinion of several commercial
7 fishing captains. One of the biggest -- well, two
8 things. One is citizenship. Half of my fleet are
9 registered vessels that are run by, you know,
10 foreigners or undocumented -- you know, non-U.S.
11 citizens. The crew -- forget, I mean, being a U.S.
12 citizen.

13 So, you know, I'm supposed to go back and
14 tell, you know, Jose that runs a 35-foot boat that
15 he has to have a captain's license, and he can't
16 get it, so now I just put him out of business.

17 MR. EICHELBERGER: Well, I mean, that's the --

18 MS. HEWLETT: And the drug testing. So,
19 you're not required to be on a consortium if you
20 hold an MMC. You're required to be on a consortium
21 if you work on a passenger vessel, --

22 MR. EICHELBERGER: Sure.

23 MS. HEWLETT: -- not commercial fishing boat.
24 So, they don't have to have random drug testing.
25 They just, every time they renew, you just have to

1 submit --

2 MR. EICHELBERGER: Right. Right.

3 MS. HEWLETT: -- a drug test. So, you know,
4 having it listed that that's a requirement, being
5 on a random drug testing or a consortium is not --
6 if you're on a commercial fishing vessel. And the
7 tonnage, wouldn't even -- I don't even think would
8 make a difference. Just a six-pack, even if you're
9 on 150-ton vessel, --

10 MR. EICHELBERGER: Sure.

11 MS. HEWLETT: -- why go through the extra
12 exam?

13 MR. EICHELBERGER: Yeah.

14 MS. HEWLETT: Just thoughts.

15 MR. EICHELBERGER: Yeah I mean, as far as the,
16 you know, the not being -- a non-U.S. citizen, I
17 mean, that is a requirement to hold officer
18 endorsement to be a citizen. But, like, the crew,
19 that is like deckhands, maybe (indiscernible)
20 seamen, they -- they do not have to be U.S.
21 citizens. They -- they just have to be -- well,
22 they have to be, you know, -- yeah. So, they have
23 to -- what am I trying to say here? Not a U.S.
24 citizen, but, you know, --

25 UNKNOWN SPEAKER: Current resident alien?

1 MR. EICHELBERGER: Yeah, exactly.

2 (Whereupon, multiple members speak
3 simultaneously.)

4 MR. EICHELBERGER: I can't think of it right
5 now, but you're right, though, it is only certain,
6 you know, vessels, that they do need to do a random
7 drug-testing program. But, you know, every time
8 they do renew, they have to have, obviously, --
9 we'll call it drug tests, because that's part of
10 the application. But -- but it's -- you're right,
11 it's passenger vessels is -- yeah.

12 MS. HEWLETT: Yeah, so that's not...

13 CHAIR DZUGAN: Jerry. I thought we had a
14 question here. So, I'm from Tuntutuliak, Alaska,
15 let's say, and I grew up speaking Yupik. And when
16 I read something -- I had a young man say this to
17 me -- very smart guy in one of our workshops -- say
18 our book is written at the sixth-grade level, and
19 he says, You have to understand, when I read your
20 book, I have to read everything three times to
21 understand. One, he said, because it's not my
22 first language. Secondly, you put the objective in
23 the wrong place. I'm expecting it -- like after
24 three stories, I'm expecting the objective. You
25 tell it right up front. Thirdly, the syntax is all

1 wrong for me. And by the way, I didn't do well in
2 school, but I'm really smart.

3 You've got Spanish speakers in the Gulf of
4 Mexico and around the country, that's not their
5 first language. We've got Portuguese, you got
6 Vietnamese who had been there for 30 or 40 years --

7 MR. EICHELBERGER: Right.

8 CHAIR DZUGAN: -- who don't read in English
9 and -- or speak it very much. What do you do about
10 examinations for people like that? We're talking
11 about thousands of people.

12 MR. EICHELBERGER: Yeah, that's a good point
13 to bring out. So we -- but they do offer -- the
14 regional exam centers, like -- like you mentioned,
15 people that are -- aren't the best with reading,
16 they do offer assistance with reading the questions
17 if, you know, they have -- obviously, some need to
18 have certain language -- know a certain language to
19 do that. But there is part of our examination
20 system where they can have assistance to read the
21 questions.

22 Obviously, they can't give the answers, but
23 they can read the questions for them where they
24 don't understand or things like that -- I'm not --
25 I'm not saying there's foreign-speaking people in

1 every REC, there's definitely not. But they do --
2 where there are, we do offer assistance to those
3 that can't read the questions or anything like
4 that. So, I can get you more on that, because I
5 know -- I know for sure that the particular testing
6 branch at MMC who controls that has all that
7 information. So, we can definitely get you more
8 information on that. Because that's definitely
9 understandable.

10 CHAIR DZUGAN: The follow-up question is, How
11 long are you going to be here this week?

12 MR. EICHELBERGER: I'm actually -- I'm
13 actually, turn and burn, so I'm out of here
14 tomorrow, unfortunately. But so, I wanted to
15 mention -- because I have to get back, but, you
16 know, anything that comes up, any questions you
17 guys have on credentialing, just please filter it
18 through. It'll get to us, and we can get, you
19 know, answers back to you for sure. Because I know
20 this is a hot item, so.

21 MR. THEILER: You'll go to that third party,
22 and you'll be on hold for three hours.

23 MR. EICHELBERGER: I know. I understand. But
24 just to finish, I appreciate you guys today and
25 your time. That's the National Maritime Center

1 website there, so that's all things credentialing
2 that can hopefully answer a lot of your questions.
3 There's a lot of -- a lot of -- ton of information.
4 It's a really good website to help you with
5 understanding, you know, mariner credentialing and
6 things like that.

7 But, like I said, I'm only here today, so
8 again, if any questions come up throughout the
9 week, obviously it'll be filtered to us, and we can
10 get questions back -- or answers back to you. So,
11 thanks.

12 CHAIR DZUGAN: Thanks, thanks to you, to
13 Mr. Gallagher. Very informational, thank you.

14 MR. WENDLAND: Thanks, Brian. I just have
15 one -- Angel, can you go back about five slides?
16 There's an applicability and -- Brian, I really
17 appreciate you putting the slide in here, because
18 it's actually relevant to one part of our fleet.
19 And it goes back to that two -- over 200 gross tons
20 with the master and the mate and engineer.

21 (Whereupon, multiple members speak
22 simultaneously.)

23 MR. WENDLAND: In any case, as Barb -- as Barb
24 mentioned, -- yes, thanks Angel.

25 As Barb has mentioned, the majority -- 95

1 percent of the commercial fishing fleet -- fleet is,
2 you know, it's unlicensed, right, for masters;
3 however, we do have part of the fleet that is over
4 200 gross tons. And one of those fleets is the
5 purse seine fleet, often known as "the
6 distance-water tuna fleet," all vessels within that
7 fleet -- and that fleet's down to -- it used to be
8 45 just a few years ago. It's down to 12 or 13
9 boats now. But they're all over 200 gross tons.

10 And I bring this up and point to this slide,
11 because our third-party organizations often get
12 tapped to do these exams for this fleet and
13 oftentimes, it's out of the country, say, Ecuador
14 or some other place. So, it's very important that
15 everyone understands there's a manning requirement
16 for those vessels. So, the check on the licensing
17 of those vessels for the master, the mate, and the
18 chief engineer is required.

19 And I do want to mention one thing. It's why
20 when asked about going back to the slide. For that
21 fleet there is one provision. And this was worked
22 through the Department of Labor back when the
23 policy was developed, which was signed off on two
24 hundred -- the second policy was two -- 2015. And
25 that is, they can request a manning exemption for

1 the chief mate and the chief engineer by following
2 certain steps, and they can do that and have that
3 letter of exemption for two years.

4 So, those boats would be required to show that
5 manning exemption. And the only way you get it --
6 that exemption is if you fall under the South
7 Pacific Tuna Treaty. So, you would have a -- have
8 to have a license to fish in that treaty. So, the
9 third parties needed check this, and as
10 coordinators or whoever's looking at this
11 information going into MISLE, we want to make sure
12 that information has been checked and is accurate.

13 And this is something we're going to talk
14 about again on the biannual visits for the third
15 parties, but it has recently surfaced. So, there's
16 a number of checks here, and I just wanted to raise
17 that. And this is where the requirements for
18 the -- for those licenses exist. And if there's
19 any questions on the policy, you know, third
20 parties, you can reach out to me on that, and I can
21 point you also in -- to our District 14 coordinator
22 that collects that information and actually, makes
23 a decision on -- on those exemptions. And that's
24 all I really had on that.

25 So, I really appreciate the time that went

1 into this. Obviously, there's a lot of work on
2 short notice, and thank you to your office and
3 fantastic job. Thanks for being here.

4 MR. EICHELBERGER: Thank you.

5 VICE CHAIR ALWARD: And everybody's hungry
6 now, so. What time are we coming back, Jerry?

7 CHAIR DZUGAN: Let's see the time is 12 or
8 12:40 right now. Do you think we needed a full
9 hour? Probably?

10 (Whereupon, multiple members speak
11 simultaneously.)

12 MR. WENDLAND: Yeah, we had we had originally
13 scheduled an hour, an hour and 15, just to be able
14 to walk come back. And so, when we do come back,
15 so, yeah, an hour, an hour and 15 is still
16 recommended.

17 CHAIR DZUGAN: Two o'clock straight up?

18 MR. WENDLAND: Your call.

19 CHAIR DZUGAN: Any disagreement?

20 VICE CHAIR ALWARD: No.

21 MS. HEWLETT: No.

22 CHAIR DZUGAN: Then we'll break, and we'll
23 come back after our recess at 2:00 p.m.

24 (Whereupon, a lunch break was taken from 12:38
25 p.m. EDT until 2:00 p.m.)

1 MR. WENDLAND: So again, just to kind of run
2 through the second part of the agenda here. We
3 will do the -- have two presentations. That'll
4 complete the four that we have for you, and then
5 we'll talk about the -- the acceptance of the
6 tasks, maybe have a motion that we were talking
7 about. And then, if there's any time thereafter,
8 you know, a little extra time there, maybe
9 discussion with the reading of the cases, and even
10 potentially assignment of subcommittees maybe would
11 fit in there as well, just depending on the timing.

12 So, I don't have anything further.

13 Mr. Chairman, do you have anything you -- you want
14 to bring up before the presentations?

15 CHAIR DZUGAN: No. That's a no.

16 LIFE RAFT SERVICING INTERVALS

17 MR. WENDLAND: Okay. All right. Well, with
18 that, we have Stephanie Groleau out of CG-ENG and
19 very happy to have Stephanie with us today. She's
20 going to be talking about life raft servicing. And
21 just -- I just wanted to give a shout out to
22 Stephanie because she and I share the same
23 undergraduate alma mater down the road about
24 two-and-a-half hours, Florida Tech.

25 MS. GROLEAU: Whoo.

1 MR. WENDLAND: So, both ocean engineers from
2 there, so go Panthers. And with that, Stephanie,
3 the floor is yours.

4 MS. GROLEAU: Thanks, Jon.

5 All right, everybody. Welcome back from
6 lunch. Glad you made it. I am here to talk about
7 everyone's most famous controversial topic,
8 survival craft servicing. I am Stephanie Groleau,
9 and my background is I have an ocean engineering
10 degree and a coastal engineering degree from
11 Florida Tech. I was lucky to go to school as Jon.
12 And I also have a risk management master's degree
13 from Notre Dame. So, I kind of do that synergy of
14 engineering, design review, and risk-informed
15 decision making.

16 Previously, I worked for the Army Corps of
17 Engineers, Jacksonville District, right down the
18 road here, for many years before coming to the
19 Coast Guard, and I lived in beautiful South Jax
20 Beach where I can see the ocean from my driveway.
21 Doesn't really happen anymore in downtown DC but
22 miss that house.

23 Next slide.

24 (Whereupon, Mr. Calderon and Ms. Hewlett speak
25 off the record.)

1 MS. GROLEAU: All right. So, today we're
2 going to talk a little bit about type approval of
3 survival craft equipment, our servicing
4 requirements that we have, some research and data
5 that both the Coast Guard and Canada have done, a
6 lot of different options that you might have as
7 vessel owner/operators or managers, some resources
8 available to you, and then I'll take questions.
9 And if the room wishes, I can also take questions
10 on servicing of immersion suits or -- or any other
11 equipment during the question period.

12 Next slide, please. So, I work in commercial
13 regulations and standards directory, that's CG-5PS
14 in the Office of Design and Engineering Standards,
15 and my small unit is the lifesaving and fire safety
16 division. This is also known as ENG-4. ENG-4 does
17 engineering, design review, and approval of both
18 lifesaving -- saving appliances and fire protection
19 equipment. And we author standards, regulations,
20 we work on international maritime law, with IMO,
21 like with Mr. Gallagher, all related to this
22 equipment. I happen to be a senior staff engineer
23 whose subject-matter expertise revolves around
24 lifesaving appliances. Unfortunately, I am not
25 going to be able to answer intelligently any

1 questions about pyro and aspirin things.

2 I also manage the Coast Guard's worldwide
3 servicing program, and I participate in Coast Guard
4 and NTSB investigations. I have had the privilege,
5 again, of working with Mr. La Torre Reyes on a lot
6 of investigations that have to do with lifesaving
7 appliances. I'm committee manager for ISO TC-8 SC-
8 1, which is the maritime safety subcommittee, and
9 this is a voluntary consensus standard group that
10 operates under the UN. And the things that we work
11 on directly course -- correspond to the LSA code,
12 the FTP code, and SOLAS. So, this is a really big
13 committee that covers safety for, essentially,
14 anything that's not a very small recreational
15 vessel.

16 Next slide, please. So, first we're going to
17 go with kind of the authorities that we're
18 functioning under here. So, 46 US Code 3306 is the
19 law that, essentially, gave us all these
20 regulations underneath it. This is why it's what
21 really gives us the authority to do the writing of
22 these regulations and to enforce them.

23 So, 46 CFR 275 there, just overall the
24 approvals of safety equipment, materials,
25 installations. Then we go to, what we call,

1 subchapter Q, with both the approval of equipment,
2 materials, and then lifesaving equipment is under
3 that subpart 160. For carriage requirements of
4 what goes on what vessel and that sort of stuff
5 falls under those CVC offices. With you guys, the
6 applicable ones are subchapter C, and then
7 subchapter W where all the big life-saving stuff
8 is.

9 And then finally, for international, SOLAS
10 kind of functions as that international maritime
11 law or conference and with regulations underneath,
12 and then the LSA code is the code underneath that.
13 And so, if anything lifesaving has to do with that.

14 Before we go to the next slide, I do want to
15 talk a little bit about our type approval program.
16 The word type approval and any -- anything that's
17 deemed Coast Guard approved is a really
18 misunderstood program that we have, and the process
19 is a little weird. So, I'm just going to kind of
20 give you a little bit of background of what it
21 means to have a US Coast Guard approved survival
22 craft.

23 So type approval is a -- is a process by which
24 a product that is required to be carried on a
25 commercial vessel is verified to meet those

1 applicable CFRs. So, for equipment and materials
2 to receive type approval, they must, one, be
3 demonstrated to comply with the relative
4 requirements and regulations; two, successfully
5 complete all of those tests; and three, be enrolled
6 in quality control or follow-up program as
7 required. The Coast Guard, specifically, has
8 very -- I would say, very strict, very detailed,
9 and robust oversight programs with a lot of
10 oversight from the Coast Guard onto these
11 laboratories, these manufactures, that's often not
12 happening when you're getting equipment that might
13 be SOLAS approved by -- whether it's the European
14 Union or the UK or the countries. The Coast Guard
15 is, essentially, known for having the most robust
16 quality-control programs of our equipment.

17 So, when you see something -- like, for your
18 raft, the first six digits in the decimal point are
19 the approval series. So, 160.151, it is part 160,
20 and 151 means it's a raft. So, that's your code as
21 to what the equipment is, and then after that, it's
22 just a number that's assigned to that one specific
23 type of equipment. So, if something goes wrong
24 with it, you can send it to us, you can send it to
25 an inspector. We can look up everything about that

1 piece of equipment.

2 So, a Coast Guard certificate of approval
3 indicates that that product meets the minimum
4 design performance requirements to be carried on US
5 vessels, and what it really does, it's for the
6 manufacturer. This allows a manufacturer to make
7 those rafts or make those immersion suits for that
8 time specified. So, they're good for five years,
9 so this says manufacturer Viking, you can make this
10 exact raft for the five years on this equipment,
11 and we will be providing oversight. And you are
12 guaranteeing that is going to be constructed
13 exactly like this piece of paper says.

14 A lot of people think oh, I need this
15 certificate, you know, I need to send it to the
16 person who's buying it or -- I -- or they might
17 email me, a vessel or owner/operator, I need the
18 certificate. This is really owned by the
19 manufacturer. And then they can provide it to the
20 vessel owner/operators if they need it.

21 So, unlike a vessel certificate of inspection,
22 the COA is not issued for a single piece of
23 equipment. It covers all of those products. So,
24 it might cover thousands of life rafts being
25 manufactured that exact same way by Viking in those

1 five years.

2 Next. So, these are -- oh, that doesn't show
3 up well. These are our general servicing
4 requirements. So, for all inflatable life rafts,
5 (indiscernible) say it's every 12 months, and
6 that's in that Q spec we talked about, 160.151,
7 specifically, commercial fishing vessels. Again,
8 every 12 months --

9 Oh, thanks Jon.

10 -- every 12 months, which is in the subchapter
11 C. Every second servicing of davit-launched life
12 rafts must have a load -- a launching load test.
13 At the fifth year, we do a gas inflation system
14 test. At the 10th year and beyond,
15 unnecessarily -- a necessary additional pressure
16 test, so it's called a NAP test. So, that's 10,
17 11, 12, etc.

18 And then after 10 years, facilities cannot
19 make major repairs to life rafts. After 10 years,
20 if there's a, you know, what we could call a
21 critical repair that's needed, it needs to be
22 replaced, because overall we just believe that's
23 too old.

24 Next slide, please. So, let's get here into
25 our regulatory exceptions. So, sometimes the

1 servicing interval can be increased by six months,
2 and that's if it's stored indoors and it has
3 controlled temperatures. Sometimes it can be
4 increased 12 months. And so, you need everything
5 under the six-month line there, and then it must be
6 visually inspected, the cylinder is inspected, and
7 those are -- always have to be inspected at a DOT
8 certified facility. The survival craft equipment,
9 like the rations, the water, a bailer, you know, a
10 flashlight, none of that will expire, and then all
11 batteries are replaced.

12 The initial servicing can be at two years
13 instead of 12 months if it's a brand new raft. The
14 survival equipment will not expire, which, I mean,
15 it shouldn't, it's brand new, and it's not on a
16 SOLAS vessel. So, this just needs to be a vessel
17 that's not going to be under SOLAS rules or have a
18 SOLAS certificate.

19 And another option is there's a 30-month
20 servicing interval for a specific type of life raft
21 called an extended servicing life raft. And those
22 are approved by a Coast Guard, but in accordance
23 with this very long, kind of, jumbled thing.
24 That's, essentially, an IMO resolution. So, that's
25 an international resolution saying if you have life

1 rafts that are built a certain way, then they only
2 have to be serviced every 30 months.

3 I'll talk a little bit more about those later
4 under options slide, but the crew does need special
5 training to have these aboard the ship. There is a
6 proprietary tool that has to be aboard the ship the
7 crew is trained on, and only one brand is currently
8 approved, of which I can share. It's public
9 knowledge. Viking is the only brand that has these
10 life rafts.

11 Next, please. So, I want to go into a little
12 bit of the research and data that was gathered,
13 both by Transport Canada -- which if you aren't
14 familiar with them, Transport Canada is,
15 essentially, the US's DOT and Coast Guard combined
16 into one -- one organization. And that happened in
17 2003. And then the US Coast Guard in 2007, which I
18 led that -- that research project and that
19 contract.

20 So in 2003, Transport Canada did a study on
21 extending servicing intervals. And this study
22 focused on condemnation data, not critical
23 problems. And they found that most rafts -- most
24 condemned rafts had been serviced less than a year
25 and-a-half prior. So, these were -- they weren't

1 finding the most condemned rafts, that they hadn't
2 followed, you know, instructions or requirements,
3 they hadn't been serviced for years and years and
4 years; they had been serviced recently, you know,
5 when they were condemned.

6 They found that critical problems occurred
7 even at your one, but there's only a 10 percent
8 probability of condemnation after year four. They
9 did recommend mod -- modifying their service
10 interval, but again, this only applied to Canadian
11 domestic rafts. I did check with Transport Canada
12 to see if they had ever recommended or written a
13 paper or submitted data to IMO to change SOLAS
14 requirements based on this study, and they did not
15 do that. They only were thinking they were going
16 to change their own Canadian regulations.

17 So, the data was based on Canadian rafts only,
18 which was about 1,332 rafts, so not very many. And
19 they only used one raft company's data. There's
20 three active Coast Guard approved ones, and then
21 there's one that's -- (indiscernible) that still
22 (indiscernible) company, so they still they had
23 a -- very, very limited data supply.

24 Now, for the Coast Guard. So, we also focused
25 on condemnation data, but we tried to use as much

1 quantitative and qualitative additional servicing
2 data. We talked to a lot of OCMIs. We talked to
3 just a lot of facilities, a lot of third-party
4 services that have facilities all over the world or
5 United States just to be able to get a bigger
6 picture.

7 We found that regular servicing yields longer
8 service life. So, regular servicing, on average,
9 led to a rough lasting 3.7 years longer. Again,
10 there were still some critical problems that
11 occurred at year one, showing that really no matter
12 what, we really need these to be inspected and
13 serviced, even when they're brand new. Because
14 whether it's how people are storing them or whether
15 it's, you know, doing read -- operation readiness
16 drills where they're being taken in and out and
17 things like that, stuff is happening to the rafts
18 while they're aboard ships that needs to be checked
19 early.

20 We found that irregular servicing really led
21 to the adhesive degradation. A lot of times when
22 the rafts are so much older, that's a lot of
23 (indiscernible) with, like once it's 10 years old,
24 they don't want any really critical repairs done
25 because at this point, the adhesive is not going to

1 be good anymore.

2 So, our recommendation was not to modify
3 servicing requirements based on this data because
4 we were finding that it was really critical to keep
5 servicing, even in the early years of raft
6 purchases. This was worldwide data used, not just
7 data in US facilities, and all four
8 Coast-Guard-approved companies were involved. And
9 our records that we used were -- 510,000 records
10 went into the 2017 study.

11 So, I do want to talk a little bit of, like,
12 why we just had, like, kind of limited data and
13 only on condemnation. I don't know if you've ever
14 heard of something, like, the Data Collection Act.
15 So, we can only really request things that we have
16 in regulations or law -- that we are allowed to
17 have the authority to request data. So, we
18 couldn't go to any of you guys and be like hey,
19 hey, hey, I want all your records that you serviced
20 all your rafts for like last 10 years, and I need
21 you to give that to me. So, it doesn't -- it
22 doesn't work like that. We're not really allowed
23 to do that.

24 So, condemnations are required by reg -- by
25 regulation to be -- to be recorded and sent in, so

1 that's when we had that data. And then we just had
2 to really kind of dig to find the other data. But
3 just in case somebody's thinking of making a
4 recommendation, like, oh, let's go look at more
5 data, let's go look at the servicing in these. We
6 don't have a requirement to collect that data, so
7 we're not really able to ask for it. And I,
8 particularly, find if no one's required to collect
9 the data, they're not going to collect the data.
10 So, there's -- you know, out of the goodness of
11 their heart. So, that's why we did have a lot of
12 limited data with that.

13 Like I said, we had critical failures in
14 condemnations, even in early years, although,
15 obviously, less frequently than with older rafts.
16 And then finally, both studies did not recommend
17 changes to SOLAS equipment or SOLAS requirements.
18 All right.

19 Now next slide. So, options. This is kind of
20 a slide that's going to -- I tried to keep it brief
21 under the things on here, but I've got a lot of
22 information for each of these things. These are
23 kind of what ENG-4 and CVC would consider all of
24 your options when you have survival craft, whether
25 it's the type, the brand, the exemptions,

1 whether -- your relationship with servicing
2 facilities. So, let's dive in.

3 All right. First one, replacement. So,
4 oftentimes replacing a raft might be cheaper than
5 servicing a raft, which fine. So, you don't have
6 to keep the raft and keep servicing it. If it's
7 cheaper to replace the raft, just go ahead and
8 replace it, you know. And you get a new one, and
9 oftentimes, that one will have the two-year
10 increment, you know, from sitting on a shelf or
11 something else. So, that's always an option.

12 There are trade-in programs with certain
13 facilities or third-party servicing companies or
14 even original equipment manufacturers, which I'll
15 referred to as OEMs. So, many of them might have a
16 trade-in. Your ship comes in. You're -- don't
17 even need a full -- you might not need an
18 inspection for your COI, you just need to do the
19 servicing, come back in and out. So, they'll have
20 rafts ready for you that match what's aboard your
21 vessel for trade-in, and you'll just give your old
22 rafts, and they'll bring the new ones on ASAP. And
23 they're already ready to go. They're already
24 serviced. So, they have trade-in programs so that
25 you're not losing any time while you're waiting for

1 the servicing.

2 The Viking S30 series. Those are the ones
3 that I was just talking about that have 30-month
4 intervals. So, these are SOLAS rafts. They are
5 good on any -- they can be used on -- on any
6 vessel, but they are SOLAS certified, and they meet
7 those specific IMO requirements.

8 So, you do have to do additional crew
9 training. A lot of it -- it's -- it's VR or that
10 sort of training. You're not necessarily sending
11 somebody to a school to go learn this. But the
12 crew does need training on how to deal with this.
13 And if you have never seen these, it looks kind of
14 like a standard raft in a case valise, but there's
15 a -- like, a viewing window in there, and inside
16 it's vacuum packed.

17 So, it's vacuum packed, and it has, kind of,
18 of mirrors inside that read humidity, solidity, you
19 know, and what the gas inside is to make sure
20 that -- and it -- it shows on this digital panel as
21 well, to show that those things are okay. So, that
22 oh, there -- there's not a high humidity in there
23 so the glue's kind of going down.

24 And they give the crew a specific proprietary
25 tool. You plug it in, and you kind of read it just

1 like you would be reading a meter for, like, you
2 know, measuring gas and stuff in a tank. And so,
3 it, kind of, tells you, okay, yeah, this raft is
4 doing well. And then at 30 months, you do have to
5 go to a specific facility that can service these,
6 and they take it out of the vacuum pack, service
7 it, re-vacuum pack it, all brand new, put it back
8 in. So, it's an every 30-month thing. It's not 30
9 months just the first -- first time.

10 So, we have exemption letters, which I wrote
11 "rare," because they are. So, these are on a
12 case-by-case basis. But they are rare, and they do
13 require significant circumstances and clear data to
14 be communicated in writing to the Coast Guard as to
15 why you would need an exemption.

16 If you -- we've had people write and say I
17 don't think I -- or I don't think I should be
18 required to have an inflatable life raft. You
19 know, I want an IPA or I want to life rope or I
20 want one of the big foam ones with a net, you know.
21 And so, you'd have to say, Okay, you really need to
22 provide some significant data as to why that
23 provides an equivalent level of safety for you and
24 what our regulations are requiring.

25 Anyone, including commercial fishing

1 companies, can apply to be a Coast Guard life raft
2 facility -- facility and be approved through the
3 Coast Guard to do that. So, I'll have it later in
4 the resources, the link as to how you would go
5 through that. But our CFR goes through the entire
6 thing is how you get people trained, what the
7 facility needs to look like, everything that needs
8 to be in the facility, who you contact, how often
9 you get inspected, everything like that. So,
10 anyone can -- with -- with a facility can just
11 follow the regulations and apply to do that. You
12 don't have to be, you know, a life raft
13 manufacturer or anything like that.

14 So, what happens is, the local OCMI comes out.
15 Those inspectors come out, and they inspect your
16 facility. They make sure that all your people are
17 trained and certified, which is done by the OEMs.
18 It is proprietary information for them, so you do
19 have to pay, you know, Viking, Survitec, LSA to go
20 through their training. And then they would give
21 you an approval letter that you can service your
22 own rafts at a specific facility.

23 Now, do keep in mind that this is by facility.
24 So, if you have a facility in Houma, but your
25 vessels are often up -- way up the East Coast, you

1 know, you're going to have to go to a different
2 facility, you know, if you're not back at your home
3 facility, because it's not the people, it's the
4 actual building and everything in it, and the
5 people that work there that all get authorized
6 together.

7 So, next. Okay. So, we have a five-month
8 delay, which is also known as, like, the 17-month
9 service interval. So, originally, this five-month
10 delay for inspections came from SOLAS chapter 3.
11 And it incorp -- it was incorporated in US Coast
12 Guard regulations 199.190. So, that's under the
13 operational readiness, maintenance, and inspection
14 of lifesaving equipment, that section.

15 So, we have had people apply for this saying,
16 hey, I want this delay. But the intention --
17 purpose behind this, this is really for vessels
18 subject to SOLAS that are underway. This is for
19 people -- I'm underway. I'm in Africa. I cannot
20 find a facility. I need this extension and, you
21 know, until, like, my -- my next COI is happening,
22 or something like that.

23 This is not for vessels that are, like, a
24 coastwise -- near coast, Great Lakes route that
25 have access to these facilities. This is where

1 somebody really does not have access because
2 they're underway overseas.

3 There's another very interesting type of life
4 raft, even though it's not inflatable, called a
5 rigid raft. There is one company that produces
6 these Ovatek in New Brunswick, Canada. And if you
7 haven't seen these, these are very interesting.
8 They look like tiny little life -- miniature
9 lifeboats that, essentially, don't have an engine
10 on them. But they are an FRP hull. They don't
11 require any servicing. They just kind of get
12 checked to make sure, you know, that hull doesn't
13 have any cracks in it. And all you're doing is
14 replacing that survival craft equipment. Every
15 five years it expires. Replacing batteries,
16 rations, and things like that.

17 So, they do sell a lot of these. And I think
18 in the last two years, they probably sold 250 of
19 these to commercial fishing vessels. So, that's
20 kind of their target audience for this type of
21 raft.

22 MR. DAUGHTRY: Do they have the CG approval?

23 MS. GROLEAU: Currently -- right now, they're
24 in the process of renewing it, but they -- yes.
25 They have had Coast Guard approval for quite some

1 time. Right now they have a gap between
2 certificates, which is shown on our public site, CG
3 (indiscernible). But yes. They were originally
4 Coast Guard approved, and right now they're
5 doing -- they're reapplying for (indiscernible).

6 And then finally, what we're doing here today,
7 proposals. So, whether that's through, you know,
8 public comments when people -- you know, we post --
9 like we said, we have 80-something comments on the
10 federal register, whether it's for questions for me
11 here, which, of course, I will take back. I will
12 be here all week for the working group, so whether
13 it's the working group, or when we have our daily
14 parts of -- daily slots for public comments. This
15 is how we get proposals back, whether that's for
16 policy changes or regulatory changes, things like
17 that.

18 Okay. Next slide. So, here are some
19 resources for you. As Jon said, all of these
20 presentations will be made available to you. So,
21 these are actually all hyperlinks, so that it's
22 just easier for you to just click one click and
23 access, instead of me giving you a long drawn out
24 web page.

25 So, the first one, again, is how to become a

1 servicing facility. It brings you through the CFR.
2 It's step-by-step process. That is the circular
3 on -- that's all about those extended servicing
4 life rafts from Viking if you're interested in
5 seeing what the requirements for that is and what
6 your crew would have to accomplish.

7 The next one down is my unit's website, and we
8 also have a lot of FAQs, specifically, an entire
9 section about servicing for all the things that I
10 work on. And then the final one is the CG
11 (indiscernible), which is our public-facing
12 facility database. I am the sole person that fills
13 out this database, so it's a labor of love. But,
14 you know, every single approved facility that is on
15 there, they do CMIs, (indiscernible) information,
16 and I fill all that out in that particular
17 database, and that can be accessed by anyone
18 anywhere.

19 Next slide. Finally, this -- this email
20 address TypeApproval@uscg.mil, this is the ENG-4
21 email address. So, this is the fastest way to get
22 questions answered. We get questions from the
23 field. We get questions from inspectors. We get
24 questions from other countries. We get -- this is
25 where we get everything in, and we give you a

1 response within two business days to say yes, we
2 have got your question, and it's going -- and it is
3 going to come to a person. We manage an entire
4 database, you know, for clarity and transparency of
5 everything we get in, everything we answer.

6 So, this is the fastest way that if you've got
7 particular questions, whether it's about, again,
8 standards, proposals, or you want to be involved in
9 standards work because you've got great ideas, and
10 you want to bring that expertise in from the vessel
11 side. You just have a question of, like, what does
12 this reg even mean, how do I accomplish this,
13 what's an exemption. Or even if you have an issue,
14 you show up, and you guys have issues with your
15 life rafts or your immersion suits or something and
16 you want to ask about that, that is where to send
17 it. And that gets us to what's fastest.

18 That's all I've got for you. Again, I'm happy
19 to take any questions. I'll be here during the
20 week, and feel free to ask me about any lifesaving,
21 any services.

22 Yes, sir?

23 MR. BOEHMER: Thank you. Kris Boehmer. You
24 mentioned something, and you may have already said
25 this, so I apologize, but you said that the rafts

1 that had had regular service had a 3.7 year longer
2 life span, but what was the life span found to be
3 if a -- either way? Well, what would you consider
4 the average life span of a life raft?

5 MS. GROLEAU: You know, I -- I'm not sure,
6 because that was in the -- that was in the Canadian
7 one, and I don't think they had a long set. They
8 just kind of showed the comparison between the two,
9 and I wasn't able to get the raw data, which I'm --
10 it's so -- it's 21 years ago. I don't
11 (indiscernible) get it now, but I'm not sure.

12 But they, essentially, said, when it's
13 regularly serviced, at what age is it condemned --

14 VICE CHAIR ALWARD: Now, on list of the year
15 (indiscernible) 2017.

16 MS. GROLEAU: Pardon?

17 VICE CHAIR ALWARD: That one was on the list
18 of the -- that was on the list --

19 MS. GROLEAU: Oh, yeah. Okay. Yeah, right.
20 No that is. Then I can look that up, and I do
21 have -- I actually, do have that report on the USB
22 drive in my -- in my backpack, so --

23 MR. BOEHMER: (Indiscernible.)

24 MS. GROLEAU: Yeah. So, okay. Yeah. So,
25 they -- that contractor, yeah, just did a

1 comparison of condemnation and then just said did
2 you actually -- essentially, did you follow the
3 servicing or did you -- were you noncompliant in
4 your servicing.

5 Yes, sir?

6 MR. TERMINEL: Mike Terminel. May -- I have a
7 couple questions. Major repairs, okay. Most of
8 these rafts, the outer shell gets damaged or the --
9 there's something wrong with the bottle. Are you
10 considering those major repairs, or are you
11 considering the raft itself, like, panels and
12 things like that, for repairs?

13 MS. GROLEAU: So, a major repair, a bot --
14 like a bottle would not be a major repair, anything
15 that's like a small component like that. A major
16 repair might be the entire canopy has to be
17 replaced, you know, due to some sort of rot from --
18 you know, from humidity.

19 Or a lot of times, it has to do with the
20 adhesive. So, when they do those extra gas
21 inflation tests, and I -- the additional pressure
22 test is they're overinflating it, essentially, to
23 see how well the adhesive is doing to see if
24 there's lakes -- leaks, that's what's really
25 finding that. So, this is, like, all the adhesive

1 would need to be redone, which means the entire
2 raft would have to be taken apart.

3 So, I mean, I'm talking, like, major-major,
4 not a patch, you know, or something like that, or,
5 you know, or a tear or I can, you know, replace
6 this particular part or -- or that part. But yeah,
7 it's going to be big.

8 MR. TERMINEL: Okay. So, the equipment that's
9 in the raft, you mentioned Coast Guard approved and
10 all that. Now, I know in the past, we've had
11 issues in Brazil and some other places where --
12 South Pacific where fishing vessels and -- inspect
13 the vessels. That's where I ran into it. And this
14 one in particular down in Brazil, they would not
15 put US approved stuff in their life rafts when they
16 repacked them. They had been going on -- something
17 going on. It was about 10 years ago.

18 So, in those circumstances, is that where the
19 exemptions and waivers come in to -- because you
20 can't -- you can't fly that raft. It just --

21 MS. GROLEAU: Oh, yeah.

22 MR. TERMINEL: -- costs too much. So, are you
23 going to give --

24 MS. GROLEAU: Whatever the --

25 MR. TERMINEL: -- waivers?

1 MS. GROLEAU: So, that wouldn't be under
2 some -- of the exemption from before. That means
3 an exemption, like, I'm asking not to have the type
4 of survival equipment exemption. So, somebody says
5 I don't want to carry a raft. I'm want to carry a
6 foam float with a net. They're for that.

7 (Indiscernible) yes, that would be a very,
8 yeah, small exemption, and the OCMI would just, you
9 know -- they'd probably check with us, hey, this is
10 going on, is this really -- is this real, what's
11 happening. But they would just write a letter that
12 says they don't have a COA for this particular type
13 of equipment. This is the situation, and they
14 would just write a letter, and they would probably
15 just say be replaced at the next servicing, you
16 know, for the next time. That's all. That's all
17 that would be.

18 But that would not be a really big deal. And
19 I think it's Louisiana or it's New Orleans has
20 South America, so yeah, that would be that OCMI's
21 AOR. And they would just write -- essentially,
22 write a letter that it was okay (indiscernible).

23 Just so -- it's, essentially -- a lot of the
24 official letters we write -- I know they probably
25 seem stuffy and annoying that we're taking up time

1 to write them, but it's, so, like, future
2 Stephanie, whoever's going to replace me, can,
3 like, see what happened and say okay, yeah. It's
4 like the knowledge transfer. Okay. This is what
5 happened, here's what we did, and we actually have
6 an official record of that instead of just -- you
7 don't want that in an email. You want that on a
8 letterhead letter. Yeah. But that would not be
9 something hard.

10 CHAIR DZUGAN: So, we're going to go with Matt
11 and then Mike and then Greg.

12 VICE CHAIR ALWARD: Matt Alward. Follow up to
13 Kris with that study. Anyone who has a raft should
14 be regularly servicing it, and so I'm kind of
15 curious where the comparison of unserviced versus
16 service to get that 2.7 years even comes from. But
17 you did say was international, so maybe they're
18 different --

19 MS. GROLEAU: No, so --

20 VICE CHAIR ALWARD: -- regulations --

21 MS. GROLEAU: -- it's all Coast Guard rafts,
22 but it's an international -- we have IF-approved
23 facilities all over the world. So, what I mean,
24 yeah, we have deficiencies. I mean, just because
25 you're supposed to do it, obviously, if we wouldn't

1 issue a deficiency, we -- you know, we'd have a
2 really easy job if we never had to issue
3 deficiencies.

4 But because we have records and MISLE
5 deficiencies from rafts, we wouldn't be able to see
6 where people skipped or didn't do it or sent some
7 of them in, or essentially, that -- that happened.
8 Because the servicing records are kept with the
9 facilities of vessels to bring them in, and they
10 would see when they wouldn't be able to do that,
11 you know, or if their stickers would show up, those
12 big yellow stickers. You'd be, like, oh, well,
13 this is 2022 and 2024. So, they have to keep
14 records of all that.

15 CHAIR DZUGAN: Mike?

16 MR. THEILER: Thanks, Jerry. Mike Theiler.

17 I -- I do have some concerns. And -- and it
18 may not necessarily be strictly for -- for your
19 comment, but maybe for -- for Trevor or -- or
20 someone else here. We're -- what we're seeing
21 is -- and whatever we do as a group here, what I
22 don't want to do is to make a regulation and then
23 have the fishermen be opportunistic and -- and
24 circumvent it and make the boats more unsafe. And
25 so, what we're seeing up in the Northeast is that a

1 lot of smaller vessels, which are 42 feet or less,
2 45 feet or less, are starting to use like the --
3 the rigid rafts.

4 So now, up in the riggings, Trevor, right, you
5 can see that these small scallopers have this big,
6 giant, you know, 1500 pound rigid Ovatek up in the
7 rigging, which creates another issue, just because
8 they're trying to avoid having, you know, the
9 annual inspection and the cost and everything else.

10 We looked at it ourselves. I'll be honest.
11 We looked at ourselves, and when we took a good
12 look at the -- the equipment, I said, this is just
13 crazy. We shouldn't be putting this up, you know,
14 where -- where you'd have to store it to -- to keep
15 it out of -- so, yeah, again, here we're trying to
16 save -- to solve one problem, but again, fishermen
17 being who they are, a lot of times, you know, they
18 look at that big raft and say well, geez we should
19 just put one of these on, avoid all this stuff,
20 but, you know, we're creating stability issues
21 then.

22 MS. GROLEAU: I -- I agree. That I -- what I
23 would say, is the deployability of your survival
24 craft is, obviously, probably one of the most
25 important things. If you're not able to deploy it,

1 like, if somebody was, like, oh, we want a
2 davit-launcher on it, but nobody knows how to do
3 that --

4 MR. THEILER: Well, it's -- it's more of a
5 stability issue, I think, than -- than deployment
6 issue.

7 MS. GROLEAU: Well, yeah. I'm saying, if your
8 ship is not stable and going over, you're not going
9 to be able to deploy that. So, un -- now, I do not
10 deal with that personally, because I deal with,
11 like, the actual equipment part. But it is a
12 really important relationship between MSC, our
13 safety center that does the designs and things for
14 newly built vessels. Of course, so when
15 something -- they're doing the naval architecture
16 design and they're saying okay, this is where
17 everything's going to fit. And then my unit does
18 the design approval for specific equipment.

19 But just because something says Coast Guard
20 approved on it, you're 100 percent right, that
21 doesn't mean that's going to fit that ship, that's
22 going to not cause stability issues for that
23 particular vessel, that that might be the right
24 size or the right type of equipment for that
25 vessel. And so, that's where that relationship

1 with that local inspection office really needs to
2 come into play. Because they would be going out
3 there and doing an inspection and saying, you know,
4 is this really fit for there, is that where that's
5 supposed to go.

6 We even do that for, you know, line-throwing
7 appliances, of life buoys, of, you know -- where is
8 this going to be in compared to the bridge. All of
9 that really needs to be communicated with that
10 local inspection office, because they're the ones
11 that are out there, literally, boots on the deck to
12 make sure that that particular type of survival
13 craft is going to fit and actually be deployable
14 for the people and mariners on that vessel.

15 CHAIR DZUGAN: Thanks for being patient, Greg.

16 MR. LONDRIE: Matt caught the servicing
17 interval. I had caught that same thing, but I'll
18 narrow in the question a little bit better. In the
19 data, is there a distinction in the deficiencies
20 found between life rafts that are regularly
21 serviced one year versus ones you found that were
22 every two years?

23 MS. GROLEAU: We find, again, so that -- I
24 just summarized this. I will also say -- so, this
25 report is -- is public, and it's been made public

1 to the "FISHSAC" group many times, and Jon's got
2 it. And so, that can be sent out again. We send
3 it out probably, again, every couple of years. So,
4 you guys -- you can have it. There's nothing in
5 here that's, like, oh, I made a summary, but it's
6 not proprietary by any means.

7 So, the main thing that I really pulled from
8 it was the adhesive part, the irregular servicing,
9 because it's -- how it's all folded and packed
10 is -- is really detrimental to the adhesive for a
11 long time, if that's not really opened up and
12 looked at and inflated. If it stands, you know, on
13 a fold. That was, I think, the main thing that we
14 found.

15 We actually -- you know, we're kind of
16 always -- what's the word I'm looking for -- that's
17 fine. But, like, you know, chatting oh, yeah, if
18 it's in the tropics, you know, it'll probably go
19 first. And then, you know, cold water or
20 freshwater, we actually, found that that really
21 wasn't showing us much data at all. And that was
22 with 500 -- 510,000 records. We didn't really see
23 a difference in the servicing depending on where
24 the raft was or where the vessel was. It was
25 really, like, is this being taken out and put back

1 properly. And I think a lot of that has to do with
2 the operational readiness of running drills,
3 (indiscernible) takes them out, run a drill, it's
4 not totally dry, they're repacking it, and it's not
5 getting serviced. So, it's put back in wet or
6 damp, and then it's not getting serviced regularly,
7 so it's just sitting there and kind of rotting.
8 But I -- I believe, it says the major issue is with
9 the adhesive. But, again, I've got it right there,
10 so I can definitely go reread and dig into more
11 details and then share that with you.

12 CHAIR DZUGAN: I think Neil was next.

13 MR. HOWLAND: Again, thank you to the Chair.
14 Nick Howland. Thanks for this presentation.

15 One thing I noticed on the (indiscernible)
16 chart, if Angel can flip to it, I think it was --
17 do you have the charts? Oh, yeah. Oh, maybe it
18 wasn't.

19 But it was the extensions that you have,
20 because SOLAS doesn't have the two-year
21 extension, --

22 MS. GROLEAU: Correct.

23 MR. HOWLAND: -- US Coast Guard does. And I
24 think everyone in both manufacturers and -- and
25 end-users who have to get their raft service

1 appreciate that. But it's not easy, because
2 there's a couple of the life items in the emergency
3 kit that cause trouble, and that manufacturers have
4 difficulty getting to the point where when that
5 two-year service, that first service on a new raft
6 occurs, that there's still going to be life in them
7 or -- or near life. And that is pyro and aspirin.

8 And I don't know if that have been solved, but
9 I think the manufacturers have generally solved the
10 pyro thing. It used to be a problem where Viking
11 would distribute all their pyro from Miami and
12 Survitec would distribute all from here in
13 Jacksonville and now, Houston. And it was -- by
14 the time, because, you don't generally fly pyro --
15 by the time it would get out to Alaska or -- or
16 Washington, it would -- it would already, kind of,
17 be near its expiration date.

18 MS. GROLEAU: Yeah. They've added -- so
19 instead of -- we have, like, manufacturing
20 facilities, but I've also proved a lot of packing
21 facilities. So, Survitec, almost all of them,
22 they're made in Dunmurry -- Belfast, France, and
23 then some China and Viking, I mean, all over the
24 place. But instead, what they're doing to decrease
25 those problems is we're approving packing

1 facilities.

2 MR. HOWLAND: Yeah.

3 MS. GROLEAU: So, they're not actually making
4 the canopy and the glue, but everything's coming
5 in, and that's where they're packing it fresh
6 there, so that they have the most up to date --
7 yeah, the pyro, the rations is a big deal.

8 MR. HOWLAND: Have you solved the aspirin
9 piece yet?

10 MS. GROLEAU: Okay.

11 MR. HOWLAND: Or is that living on waivers?

12 MS. GROLEAU: The aspirin is, I would say,
13 less of a big deal. So, while -- so we -- a lot of
14 the problems with our regs happen to be when they
15 (indiscernible). So, another agency's reg --

16 MR. HOWLAND: FDA.

17 MS. GROLEAU: -- so in this case, it's FDA.
18 And they just do not care about us whatsoever, like
19 our opinions on how long they should -- aspirin
20 should stay, and the whole rest of the world has a
21 longer expiring date for aspirin or Tylenol than
22 the US does.

23 I will say that we really try and just
24 communicate, yes, we understand it's exactly five
25 years, and so you're two months over. That's going

1 to happen, but if it's just the aspirin, do not
2 issue them a deficiency for that. Like, if that --
3 I used to get that, maybe, like 7-8 years ago
4 occasionally. I have not gotten --

5 MR. HOWLAND: -- everyone is --

6 MS. GROLEAU: -- anything in from that,
7 because we have just tried to explain through CVC-1
8 and 2 and our SID notes, our inspector notes saying
9 this is not what this is about. This is not worth
10 holding up a vessel for. Don't even issue them a
11 deficiency on this.

12 Is it going to be fine if you're in between
13 year four and five, they're getting it new in
14 five -- because that's not like a pyro where if --
15 it might not work. It just means maybe it's
16 slightly less effective in lowering a fever or
17 pain. It's not -- there's no safety issue with
18 that. So, I have not had that come across my desk
19 in, I would say, at least, six years.

20 MR. HOWLAND: Great.

21 MS. GROLEAU: And if it does, it's a very
22 strict, like, delete that, like, get rid of that
23 835 right now, like, we're not -- we're not dealing
24 with that. So, it's just kind of, like, we can't
25 put that on paper.

1 MR. HOWLAND: Yes.

2 MS. GROLEAU: But we can tell our inspector,
3 like, this is -- this is not the intent, and that's
4 not something --

5 MR. HOWLAND: Yeah. Makes sense. Thank you.

6 CHAIR DZUGAN: Ben?

7 MR. DAUGHTRY: Thank you, Jerry. Ben
8 Daughtry.

9 You mentioned that there were some critical
10 problems in your one out of 510 life rafts. Can
11 you -- is .01 percent? Is it -- what, is it? 1
12 percent? What -- what kind of critical problems
13 and at what frequency?

14 MS. GROLEAU: I am not sure since I didn't
15 bring that, but I can -- I can look that up. But I
16 would say so, the critical problems, you know,
17 opening at year one, it's going to be one of two
18 things. One, it was -- it was manufactured
19 incorrectly, which if it is, that means that's
20 going back to the manufacturer.

21 That means we, ENG-4, open an investigation
22 into that, and we -- they have to prove to us,
23 like, you know, how did this happen. What -- what
24 lot numbers are affected and that sort of thing.
25 Or if it was done in the packing facility, just,

1 literally, packed incorrectly, again, that's a
2 manufacturer fault, and that person would have
3 their raft replaced.

4 A lot of times it was because it was used in a
5 drill, and they -- they damaged it in a drill, and
6 then they went to go open it up in a servicing
7 facility, and they found something else. And, you
8 know, sometimes it's the cylinder. They put that
9 back in, and the -- the cylinder doesn't inflate.
10 That's a lot of the -- like, that's a crit --
11 that's a critical issue if a cylinder doesn't
12 inflate, but it's not what -- a major repair, but
13 it is a critical issue. So, I would say the
14 cylinder of repacking is probably -- but, yes, if
15 you, please, if -- you can remind me. I can -- I
16 can look that up for you as well.

17 CHAIR DZUGAN: This is such a good topic for
18 after lunch, yeah, because now, we're all animated.
19 But Matt was first, and then Eric and then Barb.

20 VICE CHAIR ALWARD: It was -- at first I
21 didn't realize you could take the raft out in a
22 drill, because once you open it, you got to bring
23 it back to be reserviced anyway, so.

24 (Whereupon, multiple members speak
25 simultaneously.)

1 VICE CHAIR ALWARD: So, I don't know anyone
2 who's, actually, taking their raft out and doing a
3 drill. Maybe taking it off the top of the
4 wheelhouse and pretending like you're going to
5 launch it, but not opening the actual hard case.

6 MS. GROLEAU: Yeah. So, sometimes it depends.
7 Some people do have rats that they'll use in a
8 drill, but they're excess equipment, and they're
9 using it as that. And so, then when it would go
10 in -- but we can't tell the difference between that
11 and something else.

12 They're just -- so, they would have access to
13 make sure that people are drilling on that, if
14 that's their main thing, especially for much larger
15 vessels. And so, it's technically excess
16 equipment, but they are drilling with it and
17 opening it up and putting it back.

18 Although I will say, that's also the problem
19 with a lot of immersion suits, which you are trying
20 on in your drills. A lot of times they are put
21 back in damp repacked or be put back on the on the
22 vessel incorrectly, and that's led to a lot of
23 immersion suit failures.

24 MR. HOWLAND: Well, I would argue that that
25 kind of things to data, any data from the non,

1 like, official raft that used as drill shouldn't
2 be, I wouldn't think, be put in the data, but.

3 Kind of going back to Greg. I've met and
4 talked with multiple service people who pack rafts
5 who've all said that inflating them every year is,
6 actually, putting more wear and tear on the seams
7 than if we did it every two years. So, I'm
8 wondering if...

9 MS. GROLEAU: Can't say that that's ever been
10 said to me in the hundreds and hundreds of
11 facilities that I've done approval letters for or
12 by -- by anyone. Again, I've worked down here.
13 You have Survitec in Jacksonville, in Miami we
14 would do a lot of the P5, the Vane Brothers and
15 things like that. But I can't say that that's --
16 that's ever been shared with me.

17 So, but if they -- if somebody, actually, has
18 service technicians who want to share data on that,
19 I'm always looking to have free data that I don't
20 have to do a contract for R&D for it, because
21 that's harder. So, very, very happy to receive any
22 of that.

23 MR. HOWLAND: I'm not sure if that's something
24 they'd want to have on official records, so that
25 might be why you haven't heard that. Thanks.

1 CHAIR DZUGAN: We had Greg over here and --
2 I'm sorry, Eric and then Barb and then Mike.

3 MR. ROSVOLD: Eric Rosvold. Expiration dates,
4 my SOLAS A raft has probably more expiration dates
5 than my refrigerator does, but in that, I think I
6 remember they -- they'd go and look in a raft. The
7 Coast Guard used to be 30 days for expiration
8 dates, and now they're at six months. I believe
9 SOLAS is at one year when they're looking at the
10 raft and expiration dates. Which -- which
11 expiration date or repacking consumes the most
12 stuff?

13 MS. GROLEAU: I don't think I know the answer
14 to that question. But are you talking about the --

15 MR. ROSVOLD: I think it's the --

16 MS. GROLEAU: -- specific survival craft
17 equipment, --

18 MR. ROSVOLD: Yeah. You --

19 MS. GROLEAU: -- those -- those packs? Yeah,
20 so --

21 MR. ROSVOLD: There's different expiration
22 dates is my understanding. It's sort of counter
23 intuitive, that the longer -- the one-year period,
24 you have to replace more things. And I'm thinking
25 that we were talking about a two-year raft program,

1 the cost of replacing all the stuff in the raft,
2 you know will start catching up with the cost
3 savings.

4 MS. GROLEAU: So, most things in the raft are
5 not -- not replaced on a yearly basis. It's about
6 five -- it's like five years. So, like --

7 MR. ROSVOLD: Yeah, but I think isn't -- the
8 stuff in the raft, if it's within six months,
9 there's -- it's -- you have to replace it.

10 MS. GROLEAU: I think if it's -- I believe --

11 MR. ROSVOLD: Oh, I'm sorry, six months.

12 MS. GROLEAU: If it's less than six months,
13 until it's -- until it -- until it expires and, you
14 know -- if it's less than six months, then you
15 replace -- then yes, you have to replace those
16 particular things there in the pack. So, like, --

17 MR. ROSVOLD: -- SOLAS it was a year, you'd
18 have to replace a lot more things.

19 MS. GROLEAU: I'm still not sure how it would
20 be more things. I'm not -- I'm sorry, I'm not --

21 CHAIR DZUGAN: Well, food and water, for one.

22 MS. GROLEAU: Yeah.

23 CHAIR DZUGAN: If it's a SOLAS A.

24 MS. GROLEAU: So, a lot of the things that we
25 have are -- you know, are SOLAS approved, so

1 that -- so, they can do both, but most -- again,
2 most things -- so, it's five years. The
3 manufacturers do their best when they make their
4 packs so that everything is expiring, you know, at
5 the same time in -- in their survival craft
6 equipment. I'll just call it that.

7 And if you have questions, by the way, about
8 that regulatory rule that was just done, that was
9 my rule. I can talk about that, too. Like, we
10 removed a lot of requirements for COAs and stuff,
11 so it's a lot easier to get manufacture approval.
12 You can get European stuff for a lot of things now.

13 But it is the five years. So, let's say
14 you're on year four of your raft, and you open it
15 up. And for some reason something in there is
16 expiring in two months, and you've got 10 months
17 left. Just that one particular thing would have to
18 be replaced, not the entire survival craft, because
19 they're going to come back in a year anyways.

20 MR. ROSVOLD: Everything has a different
21 expiration date. I was talking with Sean at Marine
22 Safety in Seattle, and what he explained to me is,
23 if you go to one of these programs, a two-year
24 program, you'll end up having to replace more
25 things in that raft at each time.

1 MS. GROLEAU: Oh, okay. You're comparing the
2 year to the two year --

3 MR. ROSVOLD: Yeah.

4 MS. GROLEAU: Yes. Because they're not SOLAS.
5 Yes. This is only for domestic rafts or -- or
6 it's only for rafts on domestic only raft vessels.
7 Yes, you will be --

8 MR. ROSVOLD: -- start at six months.

9 MS. GROLEAU: Yeah, so -- yeah. We're a
10 little more lenient than SOLAS, but if you're
11 not -- if you're next servicing interval isn't
12 until two years, you are going to pay to replace a
13 lot of things --

14 MR. ROSVOLD: A lot more stuff.

15 MS. GROLEAU: -- earlier because they have to
16 last two more years.

17 MR. ROSVOLD: That's my point.

18 MS. GROLEAU: Sorry. I apologize --

19 MR. ROSVOLD: (Indiscernible) --

20 MS. GROLEAU: -- that's my (indiscernible) --

21 MR. ROSVOLD: -- by the time you're done doing
22 that, --

23 MS. GROLEAU: Yeah.

24 MR. ROSVOLD: -- you will have wiped out the
25 advantage of -- and through the Chair, can I

1 talk -- can I mention --

2 (Whereupon, Chair Dzugan and Vice Chair Alward
3 speak off the record.)

4 MR. HOWLAND: Yeah. I think it's the --
5 Sean's concern was -- to me was the 30 month. When
6 he sees the Viking extended 30 month come in, he
7 thinks that when it comes in at 30 months, you're
8 replacing so much stuff that it didn't really save
9 you (indiscernible). I think that's what he was
10 considering. But he doesn't have Viking, so
11 he's -- he's -- he's being competitive.

12 MS. GROLEAU: Yeah. So, in that case, yeah.
13 So, that way, you know, you're at two-and-a-half
14 years for that part, and then you've got another
15 two-and-a-half years to the next part. So, if some
16 things aren't going to make it, if, you know,
17 they're not going to make it -- although, you know,
18 it should be -- it should be five months. So,
19 there -- it -- there really shouldn't be anything
20 in there that, oh, you know, it's got less than six
21 months left.

22 MR. HOWLAND: it should all be on the same
23 interval, yeah.

24 MS. GROLEAU: It really should be on the same
25 interval. And if it's not, that is a discussion to

1 have with your supplier as to why aren't these
2 matched up in my survival craft (indiscernible)
3 bag, because they were supposed to be matched up.
4 Maybe, you know, someone's getting some extra money
5 out of you, and that shouldn't be happening.

6 CHAIR DZUGAN: Barb had a question and then
7 Mike.

8 MS. HEWLETT: Yes. Yeah, Barb Hewlett here.
9 I understand the repacking every year, or we're
10 talking about every year or every two years because
11 of the expiration date of the equipment inside
12 mostly. Is there data that shows that, say, a
13 coastal pack doesn't have anything that expires. A
14 majority of our fleet has coastal packs. They can
15 have more up to 50 miles offshore. Is there data
16 that shows that a difference of opening it and
17 closing it every year versus every two years makes
18 that much of a difference, where say it's a coastal
19 pack, if there's, like, an exemption to say, okay,
20 you have something that has nothing that expires,
21 go to a two-year program with -- with an item like
22 that or --

23 MS. GROLEAU: Sure, thank you --

24 MS. HEWLETT: -- why would it --

25 MS. GROLEAU: -- for your question. Yeah, --

1 MS. HEWLETT: -- still have to be --

2 MS. GROLEAU: So, sorry if I gave the
3 impression that the reason we're servicing and
4 packing rafts is because survival equipment bag's
5 expiring. That's not it. That's not why. That's
6 not it at all. That's not what's driving any of
7 that data or any -- any of our rules on that. If
8 we -- if that's all we cared about, then it would
9 just be every five years, and we wouldn't care.

10 Yeah. So, both studies and the investigations
11 and things that we all get with any, you know,
12 condemnations or just stuff going on -- stuff going
13 on in casualty analysis shows that if it's an
14 inflatable, you know, it -- stuff is happening in
15 between those years. Because we looked at -- say,
16 okay, what's going on from here, here, here. And
17 it doesn't have anything to do with the survival
18 craft equipment or, you know, what -- what route it
19 is. It was pretty much all the same. If you've
20 got that other stuff, it's just happening to it as
21 it's going -- as it's going in and out.

22 So, but again, I'm sure Jon -- Jon will share
23 that and you'll see that. Because the rafts on
24 the -- on the US study included domestic ones,
25 coastal ones, even included IVAs, you know, that

1 are on ferries and things like that. It was
2 everything. So.

3 MS. HEWLETT: Follow up?

4 CHAIR DZUGAN: Yeah, sure.

5 MS. HEWLETT: So, why do recreational rafts
6 only have to be opened or inspected every --

7 UNIDENTIFIED SPEAKER: Three.

8 MS. HEWLETT: -- three years? Their -- their
9 safety -- I mean, it seems -- you know, if they're
10 okay with three years, what's the difference?

11 MS. GROLEAU: Sorry. I don't work with BSX.

12 (Whereupon, Ms. Hewlett and Ms. Groleau speak
13 simultaneously.)

14 MS. GROLEAU: -- I don't write their regs. I
15 don't have anything to do with them. That is
16 perhaps a Tom Dardis, yeah, question -- question
17 for BSX, yeah. I deal with -- yeah, commercial --
18 commercial.

19 MS. HEWLETT: It's the same raft-sh.

20 MS. GROLEAU: No, they're not.

21 MS. HEWLETT: Ish.

22 MS. GROLEAU: No, they're not the same rafts.

23 No, they, obviously, are not SOLAS. They don't
24 undergo that, and they are smaller. And I think
25 it's, honestly, because they are used so

1 infrequently. But that's my guess is that there's
2 so much longer, that they are used so infrequently.
3 And, as I think we all know this, in most of our
4 regulations, just, like Captain was saying, are
5 based on casualties. And we just don't have them
6 that are happening with recreational boats with
7 four-personal life rafts on them.

8 We don't have any casualties happening with
9 that, and we don't have any data happening with
10 that. So, it's not driving us to have stricter
11 regulations. Any regulations that we have, you
12 know, might be stricter or have these -- these
13 strong intervals around them are driven from
14 casualty analysis and investigations, so.

15 CHAIR DZUGAN: Michael.

16 MR. TERMINEL: Mike Terminel. So, a couple of
17 these questions kind of fell here. When you
18 approve a raft manufacturer, kind of like UL
19 listing that you mentioned, when they do a chair,
20 they'll have someone sit in their chair 500 times
21 and test it. How many times are you testing a
22 raft, blowing it up, deflating it, kind of fall
23 into a (indiscernible)? So, when you're approving
24 these raft companies, do you go in there and test
25 that one raft 15 times to make sure that works, and

1 then say, Okay, this line of raft is approved?

2 MS. GROLEAU: So, we -- there's multiple -- if
3 you want to go -- actually, no. It's -- I don't
4 even have the text from that. But that's when I
5 was talking about the type approvals. So, it's --
6 it's multiple parts.

7 So type approval means the raft that, you
8 know, I'm approving meets the specific engineering
9 design, specifications, and requirements. Then it
10 meets the entire testing procedure. Then it has to
11 meet the follow up and quality control part. So,
12 it's really three parts to an approval.

13 So, the first part is, you know, that's kind
14 of like desk analysis, that stuff. We go and test
15 prototypes. So, we test prototypes out there. We
16 test them in heavy seas, you know. We're putting
17 them on ships. We're deploying people in them.

18 So, that's kind of done on one sort of
19 prototype test. But then our fall -- our quality
20 control and follow up -- and it's specified exactly
21 what has to occur at each reg on that queue spec
22 that literally says on every so many rafts that are
23 produced, you know, this percent or every one of
24 500 goes -- goes through and has all the tests they
25 have to do.

1 And so they -- we have laboratories. You
2 guys, kind of, call your outside groups TPOS or
3 third-party organizations or laboratories, and they
4 witness and they show up and they watch these tests
5 happening. So, they're acting on behalf of the
6 Coast Guard, just like a surveyor or ABS might act
7 on behalf of the Coast Guard. And they sit there
8 and watch these tests. They're recorded. All of
9 those tests go to UL. UL have records of all of
10 them. And then if something ever happens, we can
11 go and look at every single thing.

12 They also, every single year, every
13 equipment -- every manufacturer has to send records
14 of all of their tests, everything that they did,
15 anything that -- even if it's all passed, for
16 lifesaving equipment to us.

17 And when they get renewed -- so, okay, it's
18 been five years on your COA, we go and double-check
19 every single record they have on all their quality
20 control and follow up and if anything happens, you
21 know, somehow it got through the cracks or one --
22 one didn't work. We go back and say what happened
23 here.

24 And now we have -- and when that happens, I go
25 and visit that facility and watch them do it again

1 and again and again, and I go through all their
2 records. I, literally, watch them manufacture
3 things and watch them test stuff. But yeah. So,
4 it's, essentially, a (indiscernible) testing
5 program.

6 MR. TERMINEL: Okay. And something that you
7 said that kind of struck me wrong. The recreation
8 rafts aren't used as much.

9 Matt, did you ever use yours, except for when
10 you brought it in to get it tested?

11 VICE CHAIR ALWARD: Well, I --

12 MR. TERMINEL: You used it --

13 (Whereupon, multiple members speak
14 simultaneously.)

15 VICE CHAIR ALWARD: -- my boat.

16 (Whereupon, multiple members speak
17 simultaneously.)

18 UNIDENTIFIED SPEAKER: We don't use them. The
19 only one who uses them is the -- the -- the testing
20 facility. We --

21 MS. GROLEAU: We -- I mean, I hope you're not
22 using your lifesaving equipment frequently, just
23 like I hope you're not using your fire protection
24 equipment frequently. I mean, that would be a
25 problem.

1 But when I'm saying they're not using them
2 often, I'm saying we got -- we get all the reports
3 every time there's a casualty, and we know exactly
4 what lifesaving equipment, fire protection
5 equipment was used in that casualty and how that
6 worked. And so, we don't -- we don't have reports
7 of them oh, this happened, this casualty --

8 MR. TERMINEL: So, you're saying they don't
9 deploy --

10 VICE CHAIR ALWARD: -- most casualties on the
11 sports side probably didn't have a raft --

12 MS. GROLEAU: Yes, yes. So, there's a lack of
13 them out there. There's lack of casualties
14 happening with them. There's just -- it's such a
15 smaller pool, and such a smaller amount of data as
16 opposed to every casualty I've worked on in the
17 Coast Guard for the past eight years that has
18 involved a life raft.

19 MR. WENDLAND: Just quickly -- just to expand
20 on that just a little bit. You know, keep in mind
21 for commercial vessels, there is (indiscernible)
22 casualty reporting requirements, and that all
23 applies to commercial vessels. So, when a
24 recreational vessel sinks and deploys a life raft,
25 there is not the same mandatory reporting and

1 casualty investigation requirements existing right
2 now that there is on the commercial side;
3 therefore, we have far more -- or Stephanie has far
4 more data on the commercial side than we do the
5 recreational side. And that's just the reality of
6 the existing laws and requirements and reporting.

7 MS. GROLEAU: And I get it. It is cyclical.
8 Like I said before, if we don't have a requirement
9 to collect data, then we can't tell somebody to
10 give us that data, and no one's going to just be
11 collecting data for us, you know, without a
12 requirement. But without data, we can't make -- we
13 can't adjust regulations without data. We're just
14 simply not allowed to do that.

15 (Whereupon, the Chair and Vice Chair speak off
16 the record while the presentation continues.)

17 MS. GROLEAU: We can't do that without an
18 economic analysis and the data to support that this
19 change is truly needed. You know, we can't make
20 regs and -- and -- and policy that way. So, if we
21 don't have that data, then we can't make -- make
22 changes on it either, --

23 (Whereupon, multiple members speak off the
24 record while the presentation continues.)

25 MS. GROLEAU: which is, which is good and bad

1 because you don't want regs made off just the top
2 of a hat or someone's idea without something
3 actually supporting that it's necessary.

4 CHAIR DZUGAN: Ben had a question.

5 MR. DAUGHTRY: Ben Daughtry. I don't know if
6 this is exactly apples to apples, but you mentioned
7 that, you know, casualties are driving decisions
8 and rulemaking and, a year ago we were talking
9 about the difference of life loads and life rafts
10 and stuff like that. And I think in a 24-year
11 history or whatever they were keeping, there were
12 no casualties associated -- associated with
13 hypothermia and -- and in-water submersion and
14 stuff with those life floats, but they're still
15 recommended to be, basically, removed out of
16 Coast-Guard-approved gear. Can you talk to that at
17 all?

18 MS. GROLEAU: I -- so, that -- that project
19 and that data really belongs to Ms. Jacqi Yurkovich
20 who -- who did a lot of that, which that was, like,
21 a Congressional mandate, and then it, kind of,
22 like, got repealed back. So, that -- yeah. So,
23 there's no more mandate of, you know, you have to
24 get rid of this. You can't have that.

25 But just like all immersion suits, you know,

1 are required of a certified -- and a certain
2 latitude like that because of the risk of
3 hypothermia and cold shock, I -- I do believe that
4 there are -- there are carriage requirements that
5 (indiscernible), but I am not sure on that data,
6 because that was somebody else's project. But
7 again, if you email me, and you can address it to
8 my name at the TypeApproval, and I can find that
9 because we do have entire folders of data. Because
10 it was for Congress, so we had to provide a lot of
11 information for them. And I can get you
12 information on that.

13 CHAIR DZUGAN: Does the gentleman in the back
14 have a comment that -- would that --

15 MR. SHERLOCK: Yeah, I just wanted --

16 CHAIR DZUGAN: -- that relates to this -- come
17 up to the -- and use the mic, please, and state
18 your name.

19 MS. GROLEAU: You can have my mic.

20 UNIDENTIFIED SPEAKER: It's my job.

21 MS. GROLEAU: I know, I know, I know.

22 (Indiscernible) --

23 MR. SHERLOCK: John Sherlock, a coordinator
24 for the 8th Coast Guard District. I just wanted to
25 add some context to her remarks. Most recreational

1 vessels are state registered, and most recreational
2 mishaps are investigated by the state. So, that
3 may explain absence of data, unless there's some
4 nexus between the state or MOU between the Coast
5 Guard and the (indiscernible). I just wanted to
6 put that out.

7 CHAIR DZUGAN: Thank you.

8 I have a question, if nobody else does, and a
9 comment. Do you compare -- oh, exact -- I'm
10 thinking.

11 MR. WENDLAND: Excuse me. We've got a little
12 feedback. Can everyone just check their mics and
13 put them on the front of the table. Perfect. All
14 right.

15 MS. GROLEAU: Go for the gold.

16 CHAIR DZUGAN: I noticed that -- seeing both
17 coasts of Canada and both coasts of the US, that I
18 would say that there's probably per capita more
19 Ovateks in Canada than US per -- per boat. Do you
20 share -- or you get that data for Canada, in terms
21 of information about Ovateks and survivability and
22 quality and things like that? Because I've seen
23 two, at least, reports from Canada, casualty
24 reports that involved Ovateks. And I'm just
25 wondering if they're sharing that data with --

1 MS. GROLEAU: Sure. So, in this case, the --
2 so, they have two sizes. One is a size that can be
3 used in (indiscernible) vessels, because it's six,
4 so six is the minimum per vessel subject to SOLAS,
5 and one's a four. So, because both of them are
6 Coast Guard approved and they're -- they're jointly
7 Coast Guard/Transport Canada approved -- they may
8 even have European Union approval. I -- I'm,
9 honestly, not -- I'm not sure.

10 But because it's under ours, even if they're
11 approved by somebody else, it doesn't matter. If
12 the Coast Guard lab is doing the oversight, they
13 are sending their -- their data to us. If it -- if
14 something happens with that -- because we have
15 Coast Guard oversight of that -- which is a -- you
16 know, a lot of times -- I don't know if you guys
17 are familiar with the MRA or the MED approval. So,
18 those are things that are -- you know, might be
19 approved in the UK and Europe and the United
20 States.

21 But if something is approved in Europe, like,
22 let's say water. Just -- you know, just water for
23 emergency water, if somebody from Europe did the
24 approval and it's -- can be used with the Coast
25 Guard. The Coast Guard, essentially, gives them

1 all the follow-up program that we have for that.

2 So, we only let things go on, that joint
3 approval authority, that we think that's okay, we
4 don't really need the oversight on. But survival
5 craft, life jackets, immersion suits, we don't let
6 anybody else approve those for us, because we think
7 that follow up and quality control is so important
8 to people's safety, US mariners' safety, that we
9 don't want anybody else doing it. We only want the
10 Coast Guard doing it. So, in that case, if it's
11 approved by us, that means our labs are getting it,
12 and that means we're getting that information.

13 CHAIR DZUGAN: Thank you.

14 Any other questions?

15 VICE CHAIR ALWARD: (Indiscernible.)

16 CHAIR DZUGAN: (Indiscernible.)

17 VICE CHAIR ALWARD: Matt Alward. So, like,
18 this is for life rings versus -- so, right now a
19 Lifesling3, you could -- if you have one of those,
20 You don't have to have a life ring, but a
21 Lifesling2, you have to -- doesn't count. The only
22 difference is one's in a hard case and one's in a
23 soft case, so kind of wondering if you knew the
24 history of why that -- could there be a way to see
25 if...?

1 MS. GROLEAU: I don't, so if that -- a -- a
2 specific exempt -- not exemption. Is that a --
3 what's the word I'm looking for -- a specific
4 equivalency was given for the Lifesling3, --

5 VICE CHAIR ALWARD: Yeah.

6 MS. GROLEAU: -- I would have to look -- so,
7 whatever that that -- that letter is -- so, by the
8 way, if something gets an equivalency to, say, oh,
9 this isn't Coast Guard approved, this isn't --
10 doesn't fall under our regulations being
11 Coast-Guard-approved, but we believe that it
12 provides an equivalent level of performance and
13 safety -- it's -- things in our reg, they actually
14 don't get a certificate. They get a letter, and
15 that letter has to be kept with that equipment.
16 That letter should outline exactly -- it should say
17 we looked at these things. We looked at these
18 tests, and because of A, B, C, and D that we
19 evaluated, we believe that this is -- this is
20 equivalent to this for these specific reasons. So,
21 that letter should say that.

22 VICE CHAIR ALWARD: Would that letter be with
23 the manufacturer?

24 MS. GROLEAU: Yes. It belongs to the
25 manufacturer, just like the manufacturer owns the

1 COA. They own that letter. So, if -- and many of
2 them post them online on their website, so people
3 can make sure to see that it's Coast Guard
4 approved. But yeah, you could just request that
5 from the manufacturer, and it would outline.

6 Again, for future Stephanie's benefit fut --
7 my next captain's benefit, everybody -- we want --
8 and we want to know that we can trace back why we
9 made a decision, that it had, like, solid -- solid
10 science and data behind it.

11 And if you think -- if you want, you know,
12 that manufacturer -- you want the 2 -- so, we don't
13 really give it to a -- a vessel asking for an
14 equivalency is one thing, but a manufacturer means
15 its equivalent for everything they're making, not
16 just a vessel. So, if you want -- say, hey, I
17 really want to buy the Sling2, I don't want to buy
18 the 3, that manufacturer could go and put in a
19 request for us and ask that to be equivalent as
20 well, instead of just your vessel, everybody could
21 use it, so.

22 VICE CHAIR ALWARD: Good to know.

23 CHAIR DZUGAN: Anything else from Stephanie,
24 questions? Going once, going twice.

25 MS. GROLEAU: Not really. I mean, I'm here

1 till Thursday.

2 CHAIR DZUGAN: Thank you so much. That was --

3

4 MS. GROLEAU: Absolutely.

5 CHAIR DZUGAN: -- informational.

6 MS. GROLEAU: It was a pleasure. And again,
7 I'm going to bring that up on my laptop for later,
8 and I'll be here the rest of the week. And I have
9 that -- the entire report with me, so I can answer
10 any details and share that with you guys.

11 MR. WENDLAND: Thank you, Stephanie.

12 CHAIR DZUGAN: Can -- can we raise the lights
13 here just for a few minutes? After lunch, it's not
14 a good combination.

15 MR. WENDLAND: Mr. Terminal, Mike, if you
16 could, just flip the switch to your right. The
17 next one. Yep.

18 CHAIR DZUGAN: Yeah, I think we can still see
19 the slides okay.

20 MR. WENDLAND: So, I just wanted to continue
21 on there with the -- with the thank you.
22 Stephanie, it was outstanding. I know this -- this
23 body has always had many questions with the rafts,
24 so I think not only was your presentation
25 exceptional in answer those questions, but

1 additionally, Stephanie also provided that access,
2 right, to the subject-matter experts that's in her
3 presentation.

4 So, those questions that come up, like
5 Mr. Alward just had, questions, you know,
6 throughout the year, now you know where you can get
7 that subject-matter expert directly, right. You
8 don't have to wait, --

9 VICE CHAIR ALWARD: I'll still just ask you.

10 MR. WENDLAND: -- you don't have to put it on
11 a tasking --

12 MS. GROLEAU: He's, like, leave me out of
13 this.

14 MR. WENDLAND: -- so any -- any way we can
15 funnel that to you directly more quickly -- you
16 know, and it really, ultimately, it's getting to
17 meet your -- meet your needs, and that's the
18 objective I'm kidding about crossing my desk. But,
19 you know, that's the objective of providing the
20 access to the Coast Guard, which all these
21 presenters have -- have done for you. So, please
22 utilize that, and I think you'll -- you'll be very
23 happy with the results.

24 MARINE CASUALTY CASE REVIEW; INCIDENT DATA

25 MR. WENDLAND: So, with that, running a little

1 bit behind, but we got the time in the schedule.
2 I'd like to introduce -- I think everybody knows
3 Mr. Omar La Torre Reyes from CG INV. So, the
4 taskings -- many of the taskings that are in front
5 of you for tomorrow to take a whack at, came out of
6 his office. So, Omar, the floor is yours, and you
7 can decide maybe, when you're done to the
8 presentation, maybe, that you probably had enough
9 time to research or get your thoughts together
10 on -- on the chairman's questions with that.

11 MARINE CASUALTY CASES REVIEW; INCIDENT DATA

12 MR. LA TORRE REYES: Yeah, no problem. My
13 presentation is actually really quick, and the rest
14 of time we'll be going to be going over the
15 taskings to make sure we understood the ones that
16 were associated with safety recommendations.

17 So, good afternoon. Again, my name is Omar La
18 Torre Reyes. I work for the Office of
19 Investigations and Casualty Analysis at Coast Guard
20 Headquarters. Waiting for my slide to come up.
21 All right.

22 So, this is going to be super small. I don't
23 know if you want the -- the lights off for this, or
24 you guys can see it. But this is my only slide
25 that I have before going into the task in this.

1 So, Angel will scroll over to the right slowly.
2 But this is -- the top half of this slide is,
3 basically, an update from the last meetings to
4 provide the full data for 2023 and some partial
5 data for 2024 of the actual total loss,
6 constructive loss, damage and undamaged vessels.
7 So, I'm not going to hit too much on this -- this.
8 This is going to be part of some of the documents
9 that you'll have access to later.

10 What I wanted to focus on is the bottom
11 section where we broke it out into more segments
12 than before for the -- the data. And I wanted to
13 touch on some of the ones -- some of the data that
14 could possibly influence some of the task
15 statements that you guys will be discussing this
16 afternoon and the rest of the week.

17 The first two is crew endurance, which is
18 fatigue, work/rest, and then number two is the drug
19 and alcohol testing contributions. Both of these
20 kind of go into the crew fitness recommendations
21 that were part of the tasking that we'll go over
22 shortly.

23 The -- number five, the medical conditions,
24 that's also the data that is been considered also
25 for the crew fitness. What this -- what this

1 doesn't show, though, is a breakout between vessels
2 that are less than 200 gross tons versus vessels
3 that are over 200 gross tons. I'd like to provide
4 that data for you, but unfortunately, today I don't
5 have it. I am hoping to have that data in the
6 future.

7 But, Angel, if you can, scroll to the right a
8 little bit. So, the average data for the crew
9 endurance fatigue over the -- was it twenty --
10 21-year time span is 11. The total number of
11 casualties that either referenced or had some sort
12 of recommendation for crew endurance was 243.

13 The next one, drug and alcohol, the same, was
14 11 was the average, and the total for everything up
15 until when this data was pulled this month in 2024
16 was 235 casualties that either had a causal or
17 contributing factor in the case.

18 Let's see, skipping down to the fifth one,
19 which was the medical conditions, that's the 85
20 there and the four. The average was four and grand
21 total was 85. And then the new one that kind of
22 popped up that has seen more, I guess, results in
23 recent years, especially in 2023, is the safety
24 management plans. That one wasn't on there in the
25 last meeting. So, I just --

1 MR. BOEHMER: Omar, I just got a question. I
2 think I saw this 38 is safety management, is that
3 what you're talking about there?

4 MR. LA TORRE REYES: Safety management is the
5 38 --

6 UNIDENTIFIED SPEAKER: Twenty-eight.

7 MR. LA TORRE REYES: -- 28, but in 2023, it's
8 38.

9 MR. BOEHMER: Yeah, that's -- I don't get the
10 math there.

11 MS. HEWLETT: Average.

12 MR. LA TORRE REYES: Oh, maybe that --

13 UNIDENTIFIED SPEAKER: No, grand total with
14 the 38 in there, it's probably a --

15 MR. LA TORRE REYES: I think that's probably a
16 typo.

17 MS. HEWLETT: That 28 is average.

18 MR. BOEHMER: Hold on, I've got --

19 (Whereupon, multiple members speak
20 simultaneously.)

21 THE COURT REPORTER: I can't get --
22 nobody's --

23 MR. WENDLAND: I'm sorry?

24 THE COURT REPORTER: We've got a free for all.

25 MR. WENDLAND: Excuse me, everybody. Just --

1 we have a court reporter trying to get all this,
2 and it's very, very challenging back here to -- to
3 do that. So, let's just, again, try to keep it to
4 a single voice and through the Chair if you've got
5 questions. Thank you.

6 MR. LA TORRE REYES: So, I'll take that down
7 and try to get the -- the correct figure to that.
8 Unfortunately, I didn't create this. But yeah,
9 that does seem off, considering grand total is less
10 than the average or -- excuse me -- the total in
11 2023.

12 CAPT NEELAND: Omar, if I may suggest, maybe
13 we can reach back. There might be an error in
14 that -- that 2023 number and just validate that.

15 MR. LA TORRE REYES: Yeah. So -- so, I'll
16 get -- I'll get that figure for you guys. I'll
17 verify it with our shop this afternoon.

18 So, I'll -- this will be available for you
19 guys to digest. Those were just the data points
20 that I wanted outline for this afternoon, were the
21 crew -- crew endurance fatigue, the drug and
22 alcohol testing, and the medical conditions, since
23 there'll be -- I think one or two tasks that are
24 associated with those.

25 Unless there's any questions on this data

1 other than the 28, we can dive into the tasks.

2 MR. DAUGHTRY: (Indiscernible.)

3 MR. LA TORRE REYES: Yeah?

4 CHAIR DZUGAN: I'm sorry, go ahead, Ben.

5 MR. DAUGHTRY: This is in Ben Daughtry. Is
6 this in an Excel form? Is it available that way?
7 Can we also, maybe, parse out kind of the
8 difference in most recent 10 years versus the last
9 10 years and see how we're trending? I think that
10 that's critical, because there's been a lot of
11 changes, you know, from 2022.

12 MR. LA TORRE REYES: Absolutely.

13 MR. DAUGHTRY: So -- so, if we're trending in
14 the right direction on these things, I think that's
15 important to know versus just looking at a 20-year
16 span total.

17 CHAIR DZUGAN: Go ahead, Captain.

18 CAPT NEELAND: So, we're happy to provide that
19 data as available. We'll take a look at it, but I
20 think we also need to keep in mind our fishing
21 fleet has also sizes changed. So, we have two
22 changing factors, not only the number incidents,
23 but also the number of fishing vessels and
24 potentially the days of exposure to -- to these.
25 And we probably will not be able to provide that

1 full level of data.

2 VICE CHAIR ALWARD: Well, we'd like to see
3 that full level of data, because that's really
4 where the rubber meets the road.

5 MR. LA TORRE REYES: So, I think for -- for
6 the number of fishing vessels, that's also hard
7 number because I don't think Coast Guard's got --
8 and Captain, you can probably speak better on this,
9 but I don't think we have a full grasp of the
10 actual full fleet, because there's some -- you
11 know, since the voluntary fleet sometimes doesn't
12 do anything.

13 CAPT NEELAND: Yeah, thank you, Omar. Just to
14 kind of expand upon that. One of our challenges is
15 our fleet. So, we have the federally registered
16 fishing fleet, and then every state has their
17 fishing fleet. And whether they're other engaged
18 in federal or state fisheries or whether they,
19 actually, are registered, but not fished that year.
20 So, actually, although, I agree with you, Matt,
21 that we should have that data -- unfortunately,
22 just given the way that data is organized is
23 incredibly difficult to provide those numbers for
24 our fleet.

25 MR. TERMINEL: Can I?

1 CHAIR DZUGAN: Sure.

2 MR. TERMINEL: Mike Terminel. I -- I -- I'm
3 looking at that one, construction materials, and I
4 know this isn't part of our past, but 1,562
5 documented cases? Are there fatalities in those?
6 Are there injuries in those? What's the -- like,
7 what -- what was -- like, I mean, I know, like, the
8 Alaska Ranger went down. It was a rudder. Okay.
9 Well, that's construction materials. Just came out
10 of the shipyard. The rudder fell out of it in the
11 Bering Sea and, you know, a big -- big problem.

12 MR. LA TORRE REYES: Okay. So, --

13 MR. TERMINEL: So, what -- what constitutes --

14 MR. LA TORRE REYES: So, that data set, that
15 constitutes anything that was a contributing factor
16 or possibly even a causal factor in the marine
17 casualty. We did correlate that with if there was
18 any injuries on board, or if there's any deaths.
19 This -- these -- these numbers here, just state
20 that in the total number of marine casualties that
21 we have for commercial fishing vessels, that was
22 either a contributing factor or causal of the
23 casualty. But we didn't correlate that with if
24 there was any deaths on board. We would have to do
25 a more in-depth --

1 MR. TERMINEL: But it was a marine casualty?

2 MR. LA TORRE REYES: There was a marine
3 casualty. But just because there's a marine
4 casualty doesn't mean there's any injuries or
5 deaths. It could just be, you know, a loss of
6 propulsion or -- or something that meets the
7 criteria of part 4, reportable marine casualties.

8 Okay. If there's no further questions on
9 that, we'll move forward on the tasks.

10 CHAIR DZUGAN: Thanks a lot.

11 MR. LA TORRE REYES: The way this was
12 organized where the -- I know that the three
13 support documentations were extremely large page
14 number wise, but some of those had repeat cases
15 where the same vessel was in -- in two packages, or
16 in some cases, all three packages. So, for the
17 first task statement that are associated with the
18 recommendations for this kind of data is 14-24.

19 UNIDENTIFIED SPEAKER: Say that again.

20 MR. LA TORRE REYES: 14-24.

21 UNIDENTIFIED SPEAKER: Thank you.

22 MR. LA TORRE REYES: So, this one was the
23 committee make recommendations on processes to
24 assess, document, and maintain mariner competencies
25 to operate commercial fishing vessels of less than

1 200 gross tons, including local -- or local
2 knowledge and recency. So, what this is,
3 essentially, saying is for the committee to come up
4 with ways to, basically, codify competency and
5 training.

6 So, the processes to assess is just how do you
7 feel is the best way to accomplish this task, like
8 how do we document the competencies of operators
9 and their local knowledge and recency. That's all
10 that's saying.

11 I know this was one that you guys asked about
12 earlier, but any other questions on that one?

13 CHAIR DZUGAN: So -- so -- so if I may, this
14 is a big training.

15 MR. LA TORRE REYES: Yeah.

16 CHAIR DZUGAN: Okay. What about when we're
17 talking about local knowledge, the differences of
18 whether these accidents, casualties occurred in
19 familiar grounds or not. I'm thinking of a
20 (indiscernible), the Mary B. They were operating
21 in a totally different environment than they're
22 used to, so that would also qualify as processes
23 (indiscernible)?

24 MR. LA TORRE REYES: That's not a process.
25 The process would just mean, like, what you guys

1 determine would be the best way to capture this
2 data for training. Like, the processes, like, what
3 do you think would be the best method to accomplish
4 that task.

5 And for -- yeah.

6 CHAIR DZUGAN: I think Mr. Terminel had their
7 hand up? Michael, or was it --

8 MR. TERMINEL: Yeah. Mike Terminel. I'm just
9 trying to process this here. With merchant mariner
10 documents, they went away from that local
11 knowledge. Before you had to write a task, like if
12 you wanted a -- like, I started my career in
13 Hawaii. And I had to get Maui County. I had a
14 written-oral report on Maui County, where the buoys
15 were and all that. Sort of like to take your
16 pilot's license.

17 And if I wanted to work in (indiscernible), I
18 had to get local knowledge for (indiscernible)
19 example. They've done away with that with -- with
20 the new credentialing. They teach you where to
21 look in Coast Guard books and look up things. So,
22 they've done away with that. So, it kinda looks
23 like we want to regress back to that. Is that
24 where you're...?

25 MR. LA TORRE REYES: That's up for -- it's

1 just a topic for discussion. So, it's up to the --
2 to the committee to decide whether that should be a
3 topic worth, you know, bringing back or if it's
4 good as is. So, these task statements, these
5 weren't word for word from the recommendations.
6 These were, basically, a paraphrase to accommodate
7 all the recommendations for, like, the task.

8 As you know, each one of the packages had
9 multiple cases. In those cases, the same
10 recommendation was written several different ways
11 in several different flavors, or they added
12 additional snippets. And to make it into one task,
13 they were all combined to, basically, produce one
14 task.

15 So, the -- when you're reading through the --
16 the investigations, and you make it to the safety
17 recommendations section, you're not going to see
18 any of the recommendations there word for word what
19 this task statement is. These task statements
20 were, essentially, paraphrased to facilitate the
21 conference.

22 Any other questions on 14-24?

23 Okay. The next is a set of three and the
24 supporting documents. It is 15, 16, and 17. We
25 can start with 15. These are all lumped together

1 because all had to do with a similar topic. First
2 one was committee made recommendations regarding
3 whether the US CG should explore obtaining leg --
4 legislative authority to require commercial fishing
5 vessel operators of less than 200 gross tons hold a
6 valid US CG-issued merchant mariner credential and
7 additional measures to require crew members on
8 commercial fishing vessels hold crew competency
9 certificates or merchant mariner documents. Any
10 questions on that one?

11 CHAIR DZUGAN: Yeah, go ahead, Jim.

12 MR. KELLY: Jim Kelly. I don't know whether
13 it's for you or the Captain. Why would you need
14 legislative authority? At what point do your rules
15 require legislation?

16 CAPT NEELAND: So, that's a great question.
17 Thank you, Jim.

18 MR. KELLY: Sorry.

19 CAPT NEELAND: No. So, a couple of things,
20 Right. So, ultimately, at a high level, Congress
21 passes the laws, which get adopted into statute.
22 The primary one -- most of them are in 46 US Code,
23 there's other areas, but it could also be
24 incorporated. From that, a law can ultimately be
25 self-executing, which, basically, means it doesn't

1 necessarily need regulatory development from it.

2 But majority of laws actually then require
3 regulations to be developed based off that law.

4 And that regulation's kind of an
5 interpretation of law. That's where it goes to the
6 open-comment period, the rulemaking process,
7 there's an economic analysis, and a whole bunch of
8 standard processes associated with that. And then,
9 ultimately, we have policy. And policy, that's
10 kind of interpretation of regulations or
11 potentially laws. We can't necessarily create new
12 regulations. We can't create new laws, but we can
13 kind of provide some interpretation with -- to help
14 provide some clarity on -- on these issues.

15 So, that's kind of the relationship between
16 law and regulations, statute. On these, I don't
17 have all the statutes memorized. But on any of
18 these recommendations, we can always -- two ways,
19 right, Congress can go pass a law on their own, or
20 the Coast Guard can go and advocate for a
21 legislative change to give us new authorities or
22 new laws to potentially implement or address an
23 area or -- or somewhere we believe we can make
24 safety improvement and help out the industry.
25 Hopefully, I answered your question.

1 MR. KELLY: Kind of. But does it mean that
2 you're -- you don't currently have this authority
3 through law. Therefore, this is really more of
4 your -- your -- not you personally -- but the Coast
5 Guard thinking that this is what's needed and;
6 therefore, to recommend to a legislator or
7 somewhere that this needs to be a bill or a law
8 eventually? So, then you can then implement.
9 Because right now, without that, it sounds like you
10 couldn't implement what you're suggesting we
11 consider here.

12 CAPT NEELAND: Currently, there are no laws
13 or -- in general there are no laws that require
14 commercial licenses on the majority of these
15 vessels.

16 MR. KELLY: Gotcha.

17 CAPT NEELAND: These are recommendations from
18 casualty investigations. It's not necessarily the
19 official Coast Guard position. Given the fact that
20 we have these recommendations, the Coast Guard
21 needs to make a determination as we close these
22 recommendations, what's the official position from
23 Coast Guard Headquarters and how we're going to
24 move forward. And with that, given that we have
25 these recommendations that we're looking to close,

1 we'd like to get the viewpoints from industry and
2 folks that have experience to help inform our
3 decision as we figure out as an agency how to close
4 those -- these recommendations and appropriately
5 move forward.

6 MR. KELLY: Last part. So, how often does
7 that happen where you're making a recommendation
8 for law as opposed to putting in regulations to
9 support the law? I see it moving in one direction.
10 This seems like it's going the other direction.
11 The majority of the time, it is Congress passing
12 laws, and we're implementing it. But there are
13 cases where the Coast Guard does propose
14 legislative changes. Sometimes they get adopted by
15 Congress and passed into law; sometimes they choose
16 not to take action on them.

17 MR. LA TORRE REYES: One additional, I guess,
18 step or way that these recommendations come into
19 play is when, you know, after a marine casualty,
20 the investigating officer, you know, after the
21 investigation, does his analysis and say, you know,
22 hey, if this we're in place or if the Coast Guard
23 had regulations for this, it would either help
24 reduce the possibility of that incident from
25 occurring in the future or reduce the -- the amount

1 of time that it will happen in the future. So,
2 for -- and this is just reaching out there as -- in
3 all these things.

4 So, let's say, like, for towing vessels, you
5 know, a lot of towing vessel accidents happened.
6 We didn't have inspection requirements for towing
7 vessels. So, you would see a recommendation from
8 post-casualty analysis saying if these vessels were
9 regulated, we would see a decline or a decrease in
10 cat -- marine casualties with this set of vessels.
11 So, that's where you would see where the Coast
12 Guard after an investigation would be recommending
13 from the field to the program offices through
14 district saying hey, if this were in place or if
15 this law or hey, we should seek this legislative
16 authority so that we can help reduce these
17 casualties from happening in the future. That's
18 where you would see it go from the Coast Guard up
19 to Congress.

20 CHAIR DZUGAN: I'll let one of you Mikes
21 decide who's first.

22 MR. THEILER: Mike Theiler. Jerry, this one
23 actually, might be for you. So, the last sentence
24 of that, additional measures to require crew
25 members on CFBs -- CFVs to hold crew competency

1 certificates. Would that be something such as, you
2 know, the MC program or -- or -- or are you looking
3 for something much more formal? That's -- that's
4 probably what, you know -- one I think is
5 achievable, the other one, I don't think is
6 achievable.

7 CHAIR DZUGAN: I'll let the Captain answer
8 that.

9 CAPT NEELAND: Yeah, I'll let Omar expand.
10 But, ultimately, really I would like to throw it
11 out to the committee to make recommendations, what
12 they think is most reasonable practical given all
13 the factors that you would consider. And I would
14 like to leave it open-ended. And I would encourage
15 the committee to potentially think outside the box.
16 You have knowledge and perspectives that we don't
17 necessarily have inside the Coast Guard. And so,
18 really this is your opportunity to help us shape
19 whatever our organizational decision is how to move
20 forward.

21 Within policy or voluntary best practices,
22 those are relatively easy to move forward with,
23 because it doesn't necessarily require a law
24 change. If we need to make regulation change where
25 we already have the legal authority, we'd have to

1 make regulatory change, that's likely to take many
2 years to potentially implement. As illustrated by
3 the Coast Guard Auth Act, and I can mention how
4 many regulatory projects are years, if not decades,
5 into. Legislate legislative changes are a whole
6 nother level of opportunity where you could make
7 recommendations. Again, that would, ultimately,
8 require Congressional action.

9 So, going back, I would like to leave it
10 open-ended. There's a whole -- I would say the
11 world is your oyster, right. There's a plethora of
12 potential solutions, and I don't want to limit you
13 any one way on responding to any of these task
14 statements.

15 I'd like to leave you have the opportunity to
16 think outside the box or provide your experiences
17 to help us get to, maybe, a solution that we could
18 do timely, efficiently, improve safety and
19 industry, and hopefully minimize the costs and
20 impact on -- on the fishing vessels industry.

21 MR. LA TORRE REYES: During our last meeting,
22 one of the repeated themes, I think, was the
23 ability to add programs to train and, you know, our
24 fishermen in a language that is easily understood
25 by them. And -- and as we know, the -- the -- the

1 wheels of bureaucracy move at such a glacial pace,
2 to get -- to get any additional programs or
3 directives that -- that would be some sort of Coast
4 Guard approved, could probably take five or 10
5 years.

6 CAPT NEELAND: Yeah. So, I think, you know,
7 the way I would recommend the committee consider
8 this, right, if you want to move forward with,
9 like, a voluntary safety initiative or a policy
10 change, that can be implemented relatively quickly,
11 but it's far less permanent, right. If you want to
12 really make these long-term -- term changes that
13 are more permanent more lasting, it takes
14 additional effort to cross it over the finish line,
15 but it's much -- potentially much longer lasting.
16 And that's a regulation changes, and that's also
17 your statutory changes.

18 So, I think when you're taking a look at it,
19 if you have an intermediate safety problem and you
20 want to address it, unless Congress is willing to
21 act in the very near term, probably a better answer
22 is some sort of policy change or voluntary
23 initiative or something along those lines. If you
24 want to make something more permanent, longer
25 lasting, it's going to take a lot more effort and

1 time to ultimately put that into place.

2 MR. LA TORRE REYES: I'd like to add --

3 CAPT NEELAND: Please.

4 MR. LA TORRE REYES: -- some additional
5 information. So, don't be limited to just one
6 answer. There -- if it's something that you think
7 hey, a legislative change or a regulatory change
8 would be optimal, it doesn't stop you from doing
9 the voluntary change first as a stop gap till you
10 get to that regulatory change. So, if you think a
11 voluntary initiative would be great to get you over
12 the safe for now aspect of it to then move forward
13 additionally to a more permanent solution as a
14 regulatory or legislation change, you can do that.
15 I mean, we're not here to hinder.

16 And that's why it's such an open-ended
17 question. We want you guys to give us your
18 thoughts on what the end goal should be, and
19 what -- what steps we can take short term to get to
20 that same solution. So you don't -- you're not
21 limited to voluntary or permanent. You can -- you
22 can do both.

23 MR. THEILER: Can I comment?

24 CHAIR DZUGAN: Yeah, I -- I'd like to comment
25 on this discussion, Michael, and then go to you.

1 MR. THEILER: Yes.

2 CHAIR DZUGAN: I'm focusing on the terms of
3 crew competency certificates and getting some
4 historical suspect -- perspective to that phrase.
5 That phrase came up during the first time the Coast
6 Guard looked at providing licensing, and some
7 people who found licensing not -- having too many
8 negatives to go along with it, kind of like we're
9 talk -- some people are talking about now if you
10 read the comments that came in, that one way to
11 keep movement going upward in safety is to provide
12 crew competency certificates, like the drill
13 conductor course, which is an accepted course, not
14 a Coast Guard approved one. There's stability
15 training, which is an accepted course, not an
16 approved one.

17 It's a way to -- all of those provide
18 measurements of competency, weather forecasts, when
19 it comes to first aid. That's obvious one. As
20 a -- as a step, and I'm going to see how long that
21 will take -- from a voluntary program, which
22 recent -- I lived through the 1980s when we had a
23 voluntary initiative in the Coast Guard to do
24 training and other things. That was in '85.

25 And I saw that we just got the choir

1 attending, not the people who potentially were
2 going to be the real problems. We went to a
3 required drill conductor course in first aid, okay,
4 in those, not Coast Guard approved, but accepted
5 courses, which were more hands on and skills based,
6 competency based.

7 And -- and I think -- I've heard you several
8 times talk and use the word keep a -- think outside
9 the box, think outside the box. That's what that
10 phrase comes from. It was from thinking outside
11 the box. So, we're -- as Fred Matera (ph) would
12 say, if he was here, making baby steps along the
13 way and not taking these huge jumps. So, that's
14 the way I would interpret that. We've been given
15 some options here to take those next steps.

16 MR. LA TORRE REYES: Thank you, Jerry.

17 CHAIR DZUGAN: Okay. Michael.

18 MR. THEILER: Okay. What is -- because you
19 have it here. Is there a difference between
20 credential and document?

21 MR. LA TORRE REYES: That's a question for
22 MMC. I know right now that what they're doing
23 with -- so --

24 MR. THEILER: Because you --

25 MR. LA TORRE REYES: Correct me if I'm wrong,

1 but they used to go -- they used to be called
2 documents, now they're called credentials. But we
3 don't want to deter you from, like, less -- I'm --
4 please correct me if I'm wrong, but we don't want
5 to deter you from recommending a less permanent
6 solution as, like, a document or a certificate.

7 MR. THEILER: And there's a reason why I'm
8 bringing this up? It's my terminology, sorry. The
9 way this is worded, it says if you're an operator
10 of less than 200 gross tons, then you need to have
11 one of these, merchant mariner's document. You can
12 get this merchant mariner's document with just
13 seamen wiper's steward, and you have a merchant
14 mariner's document. So, I think the wording on
15 this needs to reflect a merchant mariner's document
16 of less than 200 gross tons. Because it's not --
17 it just says you just need to have one of these,
18 and you can have one of these with Steward wiper.

19 MR. LA TORRE REYES: It says it there, for
20 operators less than 200 gross tons.

21 MR. THEILER: Hold US merchant mariner's
22 credential, and you can have this of steward and
23 wiper. I think you need to have the verbiage --

24 MR. WENDLAND: It said operator.

25 (Whereupon, several members speak off the

1 record.)

2 CAPT NEELAND: So, ultimately, I think these
3 are great discussion points. I mean, with the
4 task, I really want to -- assuming that the
5 committee takes it up in the form of subcommittees,
6 these are excellent discussion points that have on
7 recommendations or comments on how to move forward.

8 CHAIR DZUGAN: Just -- Jonathan, you were
9 going to say something?

10 MR. WENDLAND: I was just going to comment
11 when -- typically, when you see commercial fishing
12 vessel operators, that's not the steward or, you
13 know, that's -- that's the -- the person on the
14 bridge, right, the operators of the vessel. So,
15 what you're saying with this other ability to get
16 the, you know, the document, that wouldn't be
17 applicable because you're not operators.

18 CHAIR DZUGAN: My comment was about 15-24 and
19 16-24. To me, they -- it's kind of backwards. It
20 seems to be 15-24 if you were -- excuse me. 16-24
21 would go before 15-24, because of the verbs 15--
22 16 -- the way it reads right now, 15-24 is make
23 recommendations to the Commandant. And that's a
24 big step. 16-24, which follows says, make
25 recommendations on the feasibility of a multi-year

1 phase-in of such a program. It seems like you --
2 you look at the feasibility of it before you make a
3 recommendation on giving legislative authority on
4 something, which, essentially, says the same thing.

5 MR. LA TORRE REYES: Well, they're no -- in no
6 particular order. That's just the way they were
7 numbered. They're not chronological --

8 CHAIR DZUGAN: Okay.

9 MR. LA TORRE REYES: -- in level of
10 recommendation. These are all individual
11 recommendations. If you want to view it that 16
12 should be considered before 15, that's up to the
13 subcommittee.

14 CHAIR DZUGAN: Well, if these both are in the
15 same subcommittee, you know, that will sort itself
16 out, I think. If they get separated out, we might
17 end up on two different rails.

18 MR. LA TORRE REYES: So, currently, 15, 16,
19 and 17 are lumped together. So, if you guys decide
20 to put them in the same subcommittee or break them
21 out into two different subcommittees, that's
22 entirely up to you guys.

23 CHAIR DZUGAN: And I'd submit maybe we also
24 include 14-24 in that group of -- take that group
25 of three or four --

1 VICE CHAIR ALWARD: Well, we'll have that
2 conversation at --

3 CHAIR DZUGAN: Exactly.

4 MR. LA TORRE REYES: So, the next one is
5 a -- well, the next one was 16, which is the
6 committee to make recommendations on the
7 feasibility of a multi-year phase-in implementation
8 that all commercial fishing vessel mariners on
9 commercial fishing vessels of less than 200 gross
10 tons and operating three nautical miles beyond the
11 baseline in a near coastal zone obtain and maintain
12 a merchant mariner credential without a
13 transportation worker identification credential
14 requirement.

15 If there's no questions on that one, we'll
16 jump into --

17 MS. HEWLETT: (Indiscernible.)

18 MR. BOEHMER: Kris Boehmer. I -- I'm just
19 confused by this whole -- what is the difference
20 between getting the TWIC and not getting the TWIC
21 card, as far as crew is concerned?

22 MR. LA TORRE REYES: So, that was added by
23 CVC, but just interpreting it, I would assume it
24 would be the higher level of background check --

25 (Whereupon, Ms. Hewlett and Mr. Boehmer speak

1 off the record.)

2 MR. BOEHMER: Because I mean, still in the
3 merchant mariner credential, you're still going to
4 have to make sure they're not a felon, not a sex
5 offender, that he's not dangerous, they haven't
6 committed a murder recently, all those kind of
7 things, right?

8 CAPT NEELAND: Yeah, it's a great point.
9 Regarding the TWIC card and the TWIC background
10 check, that is the current -- the way the current
11 documentation process is sent forward; however,
12 nothing going -- thinking, again, outside the box,
13 the committee could, literally, make any
14 recommendation. And if it is appropriate for a --
15 certain offenses or whatnot to not met -- that
16 would be -- potentially eliminate somebody from a
17 TWIC but should not necessarily eliminate them from
18 engaging in commercial fishing, I think, you know,
19 the committee is welcome to make any proposal that
20 would be appropriate. And again, so Brian
21 presented earlier a presentation about our current
22 credentialing process. There's nothing that says
23 if we adopt or if the organization moves forward on
24 a credentialing process for fishing vessels that we
25 have to follow the exact existing process. There

1 may be something more appropriate. So, I'd kind of
2 leave that open-ended.

3 MR. BOEHMER: So, just to follow up on that.
4 I think I understand. But theoretically, we
5 could -- we could suggest to the Coast Guard that
6 they form a license for a fishing vessel operator
7 that's different than what's already out there for,
8 you know, a 100-ton license, theoretically.

9 CAPT NEELAND: Theoretically that is
10 absolutely a viable recommendation. The challenge
11 on any of these recommendations is organizationally
12 how would we move forward if that's the direction
13 we're going to go there. So, it just helps us
14 understand the perspective and the direction from
15 the commercial fishing industry to help us form
16 organizationally our direction.

17 MR. LA TORRE REYES: Just -- I mean, new
18 credentials get added. I mean, the OUPV, one
19 wasn't original, and that was created to allow
20 for -- for the smaller vessels, so possibility is
21 there.

22 So, 17 is committee make a recommendation on
23 the feasibility of a multi-year phase-in
24 implementation that all commercial fishing vessel
25 mariners serve as a master operator of a commercial

1 fish -- of a commercial fishing vessel of less than
2 200 gross tons and operating three miles beyond the
3 baseline in a near coastal zone, obtain, maintain
4 an operator of uninspected passenger vessels OUPV
5 merchant mariner credentials without TWIC.

6 CHAIR DZUGAN: Hold that question about --
7 because -- you and me, Captain, at the last
8 meeting, towards the end of the last meeting, we
9 had a give -- give and take about this. Operating
10 three miles beyond the baseline. The baseline, I
11 think, is mean low or low water for now. And
12 therefore, three miles within the territorial seas
13 is kind of obvious. And I just want to make sure
14 we're --- that we've got the same data point here.

15 CAPT NEELAND: The baseline is, I believe,
16 defined in 33 CFR. I'd have to double-check that.
17 I'm just calling it off top my head. And really,
18 from my understanding, that's to distinguish
19 between state waters and federal waters. So,
20 that's the intent of the -- this is when you're
21 operating beyond three miles, you then should be,
22 in general, operating in federal fisheries.

23 CHAIR DZUGAN: So, the three miles we're
24 talking about here is represented by what I have
25 outlined in yellow?

1 CAPT NEELAND: Yes.

2 CHAIR DZUGAN: Okay. Great. That killed two
3 birds with one stone, thank you. If can pass those
4 out, just so...

5 CAPT NEELAND: Oh, yes.

6 CHAIR DZUGAN: That's fine.

7 MR. WENDLAND: So, let me just -- if I could,
8 just follow up a little bit on that. And I know
9 this was a little bit of point of confusion. And
10 to your point Jerry, and more, specifically, and
11 consistent with several rules, US baselines are the
12 mean of the lower low tides, right. And that's
13 depicted on all the NOAA charts. So, on the larger
14 scale NOAA charts. So, for those that don't know,
15 NOAA has a division NOS, National Ocean Service,
16 which is responsible for charting from the baseline
17 out to 200 nautical miles. The Navy has it there
18 outside of 200.

19 So, there's terms that are involved with that
20 charting and those baselines. And -- and like,
21 boundary line, for example, is high water. So,
22 there's different -- there's different measurements
23 that are associated with these terms. And I've
24 written down some of those definitions, and I can
25 put up the slides maybe tomorrow so people can

1 actually review those and the -- and where they're
2 coming from just so there's a clear understanding.
3 Because it's also how that's -- it's phrased.
4 Because a lot of times it's stated as the
5 territorial sea is measured, not the territorial
6 sea, but as the territorial sea is measured. And
7 that's really how it's measured from the -- from
8 the low low waterline -- mean low low waterline out
9 is how the territorial sea's measured. So,
10 there's -- there's different acts that that's
11 applicable to, and I don't want to confuse the
12 subject too much, but we can -- you know, I can
13 address that in slides tomorrow so you can see,
14 actually, more clarity on it.

15 CHAIR DZUGAN: My key point is, is this the
16 same reference to the three miles that's mentioned
17 in the 2010 Authorization Act? Okay. That
18 clears -- at least, for me that clarifies a lot.
19 We're talked about the same thing.

20 MR. WENDLAND: Yeah, and also whenever -- you
21 know, technically it's really nautical mile, right,
22 so just a technicality. Not a statute miles, but.

23 VICE CHAIR ALWARD: Then it should have said
24 that.

25 (Whereupon, several members speak off the

1 record.)

2 CHAIR DZUGAN: Any comments on this section?
3 Ready to move on to the next one, it sounds like.

4 MR. LA TORRE REYES: Yep. So, the next one
5 for me, we jump down to 20, 21, and 22, which all
6 has to do with fitness (indiscernible). 20-24 --

7 MR. CALDERON: Let me pull it up. What
8 (indiscernible)?

9 MR. LA TORRE REYES: 20-24. So, this one
10 reads (reading): Committee make recommendations on
11 processes to review and implement commercial
12 fishing vessel mariner fitness for duty or service
13 onboard commercial fishing vessels of less than 200
14 gross tons. Fitness for duty and service should
15 include an assessment of overall health and
16 physical fitness and contain provisions for the
17 elimination drug and alcohol usage and management
18 of fatigue.

19 CHAIR DZUGAN: Any comments, questions on that
20 section? Moving on.

21 MR. LA TORRE REYES: All right. 20-24 -- or
22 excuse me, 21-24 reads: Committee develop guidance
23 and make recommendations on fatigue-limiting
24 strategies, as well as work/rest hours -- work/rest
25 hour logging requirements.

1 CHAIR DZUGAN: Any questions, comments on that
2 section? Hearing none, moving on.

3 MR. LA TORRE REYES: All right. Next one is
4 22-24. (Reading): Committee analyze fatigue and
5 sleep deprivation impacts with commercial fishing
6 industry and make recommendations to the -- to the
7 US Coast Guard.

8 CHAIR DZUGAN: I have a sense of de je vu, but
9 any comments, questions? Hearing none.

10 MR. LA TORRE REYES: Okay. Unless there's any
11 other questions over the overall process or any of
12 these task statements, that concludes --

13 CHAIR DZUGAN: Eric. Before you leave.

14 MR. ROSVOLD: Thank you. Eric Rosvold. Your
15 first slide you had up, it was sort of a comparison
16 over 20 years of various incidents. When I'm
17 trying to figure this out, I'd like to have a feel
18 for how -- how strongly I feel about it. And I
19 found the page is the US Coast Guard Maritime
20 Information Exchange Incident Investigation
21 Reports, and it's got a search function. And if I
22 do the last 10 years, which makes more sense to me
23 than 20 years, I -- it -- it appears there are 20
24 records of myriad incidents.

25 MR. LA TORRE REYES: So, those would be

1 where -- so, when this -- when this data was pulled
2 up, what we did to get these numbers was the search
3 requirements for it was looking into the narrative
4 of the investigation where are the contributing
5 factors and stuff like that mentioned these or
6 those --

7 UNIDENTIFIED SPEAKER: Words.

8 MR. LA TORRE REYES: -- words.

9 MR. ROSVOLD: So, it wasn't done in a vacuum?

10 MR. LA TORRE REYES: No.

11 MR. ROSVOLD: But most of those incidents
12 appear in this 20 boats, or these 20 incidents.

13 So, I figured it's --

14 MR. LA TORRE REYES: So, --

15 MR. ROSVOLD: -- reasonable to assume that's
16 the 20.

17 MR. LA TORRE REYES: So, those 20 -- those 20
18 would be reflected here, but if the number doesn't
19 exactly match, --

20 MR. ROSVOLD: No, they won't. No, they won't
21 match. No, I know that. But what I'm looking at
22 is the number of incidents in inspected and
23 licensed vessels. In the same time period, it was
24 81, and I stopped counting. But it -- and I get
25 that the inspectors are suggesting these are the

1 things that they see as what's wrong with that
2 vessel and its operations.

3 MR. LA TORRE REYES: So, not the inspectors.
4 These came from investigations of --

5 MR. ROSVOLD: Investigators.

6 MR. LA TORRE REYES: -- where a marine
7 casualty occurred.

8 MR. ROSVOLD: Right, right. Okay. Somehow it
9 feels to me more like a solution than searching
10 problem, but we'll -- we'll discuss that in
11 committee and get -- get (indiscernible) to that.
12 Thank you.

13 MR. LA TORRE REYES: So and, I guess, to add a
14 little bit to that, the recommendations that are
15 here, in the support documentations, the cases that
16 are included in those were where those
17 investigations called out a recommendation to
18 address those issues. Those cases -- or those
19 cases that are listed, those aren't just -- those
20 aren't all the cases where these issues were either
21 contributing or causal factor. This is -- the
22 cases that are in your packets are the cases where
23 the investigating officer felt strongly enough to
24 write a safety recommendation for them.

25 So, the -- the numbers on this (indicating)

1 reflect all of -- all of the marine casualties
2 where those words were mentioned in a causal or
3 contributing factor aspect, not where the
4 investigating officer decided or felt the need
5 to -- to issue and safety recommendation on. So,
6 that -- that's why there's a lot more numbers up
7 there than there are in your packets
8 investigation-wise. Does that make any sense?

9 MR. ROSVOLD: Well, it sort of does, but when
10 you do a search, I'm assuming that pulls up every
11 marine incident, which would be damage over a
12 certain amount or death or loss of the vessel. And
13 I mean, they're all here. There was only 24 in the
14 last 10 years.

15 MR. LA TORRE REYES: So, not --

16 MR. ROSVOLD: And up here you've -- you pulled
17 into that -- I think it was commercial fishing
18 vessels and, but...

19 MR. LA TORRE REYES: What's that?

20 MR. ROSVOLD: It wasn't just commercial
21 fishing vessels in that one.

22 MR. BOEHMER: It was inspected and
23 uninspect -- or I mean, over -- over 200 tons,
24 licensed and all that.

25 MR. ROSVOLD: I'd like to see where we just

1 called up fishing vessels and compared it to the
2 rest.

3 MR. BOEHMER: This is just fishing vessels.

4 MR. LA TORRE REYES: This is just fishing
5 vessels.

6 CHAIR DZUGAN: Those are licensed fishing
7 vessels over 200 tons, so it includes both --

8 (Whereupon, several members speak
9 simultaneously while discussion and presentation
10 continue.)

11 CHAIR DZUGAN: -- types.

12 MR. LA TORRE REYES: So, those aren't
13 associated with -- with fishing operations.

14 CHAIR DZUGAN: Go ahead, Omar.

15 MR. LA TORRE REYES: So, -- so, those
16 aren't -- those are the vessels, like your -- your
17 tenders that are in support of commercial fishing
18 operations that are carrying the cargo for that.
19 Those are still considered commercial fishing
20 vessels.

21 UNIDENTIFIED SPEAKER: (Indiscernible) wet
22 cargo.

23 (Whereupon, several members speak
24 simultaneously.)

25 MR. ROSVOLD: US Coast Guard Maritime

1 Information Exchange, and they have a separate
2 listing for tender vessels. You call that out, and
3 you'll see that there's zero incidents in the last
4 10 years.

5 MR. LA TORRE REYES: So, what I'm trying to
6 say is that the deep dive that we did for this went
7 a lot deeper than the buttons that allow the
8 investigators to click that show up in the CG
9 Exchange.

10 CAPT NEELAND: Eric, if I may just interject
11 here. So, what CG INV has the ability to is all of
12 our investigations it's populated this -- it's
13 called MISLE, Marine Safety Information Law
14 Enforcement database. And in that, CG INV will do
15 a lot of mining of the data and be able to pull up
16 a lot of trends that are not necessarily available
17 on CG MIX and publicly available. And that's where
18 they really focused on.

19 It's not that we're trying to hide the
20 information. It's just not categorized in an easy
21 way, queried form to be able to put on CG MIX. And
22 also, correct me if I'm wrong, Omar, but CG MIX
23 doesn't get populated until the investigation is
24 fully closed.

25 MR. LA TORRE REYES: Correct.

1 CAPT NEELAND: So, there's a number of
2 investigations that are still open because these
3 are pending recommendations or other factors and
4 therefore, aren't populating what is in CG MIX.

5 VICE CHAIR ALWARD: And that's what we're
6 making recommendations on, is the ones that are not
7 closed.

8 CAPT NEELAND: Correct.

9 MR. LA TORRE REYES: Well, on every -- on
10 every -- on so -- on everything. So, the -- all --
11 all of the recommendations that are in the packet,
12 all of those places -- cases are closed; however,
13 the recommendations may not be closed. So, what I
14 (indiscernible) our office did in 2021, end of
15 2021, was we saw that there was a humongous backlog
16 because the cases weren't getting closed because
17 they had open safety recommendations. There was
18 such a huge backlog that we couldn't close the
19 case.

20 So, we sat down and we determined what is the
21 value added of keeping these cases open until
22 safety recommendations can be adjudicated, because
23 remember, if safety recommendation is recommending
24 a legislative change, I mean, it can take a decade
25 or two decades sometimes to get that through. And

1 meanwhile, that rec -- that entire case, even if it
2 had deaths, would remain open until that safety
3 recommendation was closed.

4 So, that's what it was like for -- since the
5 inception of the program pretty much. And then in
6 2021, and we was like, we need to think outside the
7 box to figure out how we can close some of these
8 cases to allow, you know -- after the incident for,
9 you know, the grieving next of kin or insurance
10 stuff, this or that, and so we decided the value
11 added of keeping the cases open just for the safety
12 recommendation wasn't, you know -- that wasn't
13 accurate anymore. So, we came up with a process
14 where we can close the case and keep the
15 recommendations open. So, we decoupled them,
16 essentially.

17 So, each safety recommendation stands on its
18 own where we can -- before, we had to address every
19 safety recommendation in that case before it was
20 close. And now, we can address them individually
21 as safety recommendations individually.

22 CHAIR DZUGAN: We -- we've got a comment over
23 here, and then Tom, and then you next.

24 MR. ROSVOLD: I don't know if it's necessary,
25 but to your point that what we have in front of us

1 is cases with see actual safety recommendations
2 from an investigator, so I didn't know if you had,
3 like, a spreadsheet with the recommendations and
4 how many cases that had these recommendations...

5 MR. LA TORRE REYES: I do. So, the -- the
6 cases where -- I don't have the -- come up with
7 this. We do have the raw data for this stuff where
8 it shows what cases in the narrative of the
9 recommendation mentioned it as a causal or
10 contributing factor. We have that. It's not
11 readable. So, it takes a whole lot of effort to go
12 through that and having -- you know, doing some
13 magic tricks that INV 2 does to mine some of this
14 stuff, which I don't fully understand. But then
15 there's the -- I keep all the records for the
16 safety recommendations since I started working
17 there where we can develop some sort of trend, at
18 least, from the open cases that we have.

19 It doesn't go back into the legacy stuff
20 because we just haven't gotten there. We don't
21 have the staff yet to back-populate all the -- all
22 the legacy data. And some of that stuff -- I
23 guess, for commercial fishing vessels, some of the
24 stuff would still be valid, and (indiscernible) for
25 other platforms, new regulations and

1 (indiscernible) kind of mitigate those issues.

2 CHAIR DZUGAN: Keep moving on, but yeah, go
3 ahead, follow up, and then we'll get to Tom.

4 VICE CHAIR ALWARD: Matt. I mean, I don't
5 know if you have the answer, but out of curiosity,
6 like, this is our third meeting. We've gone
7 through a lot of cases already. How many more
8 cases out there that -- that our -- the committee's
9 going to need to review, not counting ones that
10 haven't happened yet or are ongoing investigations?

11 CAPT NEELAND: So, I don't have that number
12 right in front of me. And, like, if you look at
13 what we put on the agenda, for a lot of these
14 cases, we tend to focus on a couple of different
15 areas. There's other areas that we're trying to
16 focus on the next meeting -- the meeting in the
17 fall. The reality is, you know, as long as we
18 continue to have casualties, we'll have
19 investigations and potential -- likely
20 recommendations.

21 I'm hopeful within, you know -- the
22 committee's actually, been successful to really,
23 over the last two meetings, look at large number of
24 cases and really kind of help shape us shape the
25 direction. I'm hopeful as we move forward in the

1 future, we'll actually have far fewer of these and
2 be able to really focus on some other issues. And
3 I'm trying to strike that right balance -- trying
4 to close out a bunch of these old cases with
5 outstanding recommendations, but also trying to
6 advance some of the issues that the committee is
7 interested in. That's why I take the
8 recommendations, try to incorporate those on the
9 agenda. I'm trying to strike the right balance.

10 MR. LA TORRE REYES: So, with this new -- in
11 your packets, you'll see that -- I mean, the two
12 newest cases in there that -- we kind of discussed
13 it overall in the last meeting was the Scandies
14 Rose, but that case was closed and now published,
15 and that is in your packets, as well as the Mary B
16 II, which was the one that was -- it had a lot more
17 recommendations in there, and you can read them.
18 The case is in there. But the -- we were only
19 focusing on three topics this time around, which
20 was credentialing, crew fitness, and training.
21 Those are the three overall topics that we plan to
22 discuss in this meeting.

23 If you read those cases, like the Mary B II,
24 the Scandies Rose, there's a lot more
25 recommendation in there that we're just not

1 addressing in this meeting. So, the intent for
2 these meetings was we would pick a topic, we would
3 go through and look at all the cases that had
4 safety recommendations with the same topic and
5 address it all as one so that CVC can have
6 somewhere to start for developing their stance on a
7 particular topic and hopefully get through a lot of
8 these recommendations in one go. And that was the
9 benefit of breaking these out into individual
10 safety recommendations where we don't have to
11 address the entire case to address safety
12 recommendations. So, what happens with your --
13 your -- your responses goes back -- go back to your
14 CVC, they chew on it and decide what -- their way
15 forward. They send it to us, and then we start
16 addressing all the individual safety
17 recommendations. So, we'll have -- we call them
18 final action memos for all of them, but
19 individually have safety recommendations.

20 CHAIR DZUGAN: Captain?

21 CAPT NEELAND: I'd just like to provide one
22 clarification. CVC is just one Headquarters
23 office. Depending on the recommendation and then
24 the office at Headquarters that would be most
25 appropriate to take action on it, they would

1 evaluate and move forward on it. So, it's not just
2 CVC, but there's a whole large number of offices
3 that would take the recommendations from the
4 committee.

5 CHAIR DZUGAN: We're running down our last
6 hour here. Less than that, but so, unless there's
7 any other questions for Omar from the group. Yeah,
8 Katie then David.

9 MR. TURNER: David Turner here. I just have a
10 comment about this particular slide. I -- the more
11 look at this, the less helpful I find this, because
12 it's lacking so much.

13 MR. WENDLAND: If you guys email me or pass
14 along the information of what you would like to
15 see, I can see if I can send back to get it better
16 correlated.

17 MR. TURNER: Yeah, I think what we would need
18 to see was in the spreadsheet format with
19 additional columns, vessel type, vessel location,
20 things along those lines, so it can be filtered and
21 sorted based on what we're trying to look at.

22 MR. BOEHMER: Mr. Chairman, my -- my question
23 relates to that -- that slide as well. May I? Can
24 I go --

25 (Whereupon, multiple members speak

1 simultaneously.)

2 MR. LA TORRE REYES: Injuries, so --

3 MR. BOEHMER: Sure, but then we don't show
4 that many injuries?

5 MR. LA TORRE REYES: What was that?

6 MR. BOEHMER: We don't show that many injuries
7 if you add them up all up. There's --

8 MR. LA TORRE REYES: No, but --

9 MR. BOEHMER: That's over half the data.

10 MR. LA TORRE REYES: There -- there's a lot of
11 things that are (indiscernible) casualties that end
12 up in a -- as long as it meets one of the criteria
13 in part four, it's a reportable casualty, it's a
14 reportable casualty, and it's reported whether
15 there was damage on vessel or not and -- and --
16 yeah.

17 MR. WENDLAND: Omar, (indiscernible), but you
18 can remind everyone or what's the threshold for a
19 reportable marine injury casualty?

20 MR. LA TORRE REYES: I don't want to be
21 incorrect.

22 MR. WENDLAND: I didn't mean to put him on the
23 spot, but there's a number of thresholds. And then
24 within the reportable marine casualty, there's
25 serious marine casualties.

1 MR. BOEHMER: Any -- anything to do with 2692,
2 right?

3 MR. WENDLAND: Pretty much. 2692 is a
4 reportable marine casualty, and an investigation
5 will happen. A lot of them will be preliminaries,
6 minor in nature, and they'll close out without a
7 full investigation. A number of them, such as what
8 just happened down in Baltimore, right, that's
9 resulted in reboard investigation and, you know,
10 NTSB is involved as well, and that will be a very
11 long formal report and everything in between.

12 CHAIR DZUGAN: Yeah. Tom, is your question --

13 MR. DAMERON: Yeah, I --

14 CHAIR DZUGAN: -- for Omar?

15 MR. DAMERON: Yes. Thank you, Mr. Chair. Tom
16 Dameron.

17 So, I'm curious, after the Coast Guard
18 receives the Safety Advisory Committee's
19 recommendation, how long will it take you to chew
20 on it and -- and come up with this -- and come up
21 with a stance?

22 (Whereupon, multiple members speak
23 simultaneously.)

24 MR. WENDLAND: So, correct me if I'm wrong, by
25 statute we're supposed to be providing you

1 responses, and we provided you responses within 30
2 days, I believe.

3 CAPT NEELAND: Yes, sir. It's 30 days
4 responses to your recommendations, and we post
5 those on the web. And I'm not sure that's what
6 Tom's asking.

7 MR. DAMERON: Yeah. That wasn't what I was
8 asking. I was asking -- he -- he mentioned that
9 the Coast Guard was going to come up with their own
10 stance, wanted to hear the Safety Advisory
11 Committee's recommendation before that. And then
12 how long will that process take before you come up
13 with your stance on these individual
14 recommendations?

15 MR. WENDLAND: So, there's not, like, a set
16 time frame. And we'll give you 30 days at least,
17 acknowledge your receipt and tell you the direction
18 we're going on. Depending on what our stances is,
19 there a lot of homework and research, depending on
20 what's within the realm of feasibility depending on
21 what our position is and how we want to move
22 organizationally.

23 So, if we're going to go and try to make a
24 legislative change, that will take much longer and
25 a lot more moving pieces than it's just something

1 a -- a quick policy change. So, the reality is one
2 comment that Coast Guard's consistently received
3 from different FACA committees is that we haven't
4 been providing responses to you. So, that's why
5 we've been trying to give you a response to at
6 least indicate what our perspective and the
7 direction we're moving in, but, ultimately, what
8 the final agency action -- and I can't give you a
9 fixed time frame, because it really varies based
10 off the actual action.

11 CHAIR DZUGAN: We thank you for that more
12 timely response. Thanks. We have -- I've noticed
13 that.

14 MR. LA TORRE REYES: I have -- I have the
15 formal definition of reportable casualty, if you
16 guys care to hear it. It's kind of lengthy, but --
17 oh, he's got it up there, too. Yep.

18 VICE CHAIR ALWARD: You want to just email
19 everybody on the committee the link to that page?

20 MR. LA TORRE REYES: So, what -- the one for
21 injuries, sometimes it's, you know, anything that's
22 beyond -- professional medical treatment beyond
23 first aid. But the other one where it's a no
24 damage, but it's a marine casualty, also loss of
25 propulsion, with loss of propulsion cases or loss

1 of steering cases, it may not be something that
2 broke on the vessel, just the vessel lost
3 propulsion. I mean... It's kind of a long one to
4 say without -- you know, from memory, so I wanted
5 to...

6 UNIDENTIFIED SPEAKER: And seven just changed
7 recently, didn't it?

8 MR. LA TORRE REYES: What's seven?

9 MS. HEWLETT: The amount of money.

10 VICE CHAIR ALWARD: The dollar amount.

11 (Whereupon, multiple members speak
12 simultaneously.)

13 MR. LA TORRE REYES: Well, that, are you on --

14 VICE CHAIR ALWARD: I'm on that one right
15 there. I think it was 25,000.

16 MR. LA TORRE REYES: It was --

17 (Whereupon, multiple members speak
18 simultaneously.)

19 MR. LA TORRE REYES: -- 25,000, yeah.

20 MS. HEWLETT: (Indiscernible) the amount.

21 UNIDENTIFIED SPEAKER: And then there is a
22 serious marine incident, which is the step above.

23 MR. LA TORRE REYES: Yes. And that's also in
24 here, too, but not this section. It's, actually,
25 before this. I can give you that link, too. Well,

1 (indiscernible).

2 MR. ROSVOLD: I got it.

3 MR. LA TORRE REYES: And then there's one
4 above serious, and it's major.

5 MR. ROSVOLD: What's the dollar amount with
6 major? I guess that would be the bridge?

7 MR. LA TORRE REYES: The bridge.

8 CHAIR DZUGAN: That's catastrophic. Any --
9 Okay. Go ahead, Captain.

10 CAPT NEELAND: So, just one comment on -- CG
11 INV, actually, can do incredible work digesting and
12 evaluating data as requested in the spreadsheet.
13 So, if prior to the next meeting there's specific
14 data or information that could be presented, let us
15 know. We'll engage with INV and find out if we can
16 actually share present that data as requested. But
17 it takes -- again, that's going to the backside of
18 the database, so it takes a little bit of time to
19 be able to pull and formulate that. But if there
20 is information that is useful and would assist the
21 committee, by all means, please ask for that.

22 MR. TURNER: David Turner, again. I'd say I
23 don't recall being presented with this data in
24 preparation for this meeting. It showed up after
25 the meeting. And so, just generally speaking,

1 given data that's been so filtered (indiscernible)
2 that it takes a lot out of it.

3 CHAIR DZUGAN: Any other questions or comments
4 for Omar?

5 MR. WENDLAND: Jerry, if I could, just to tag
6 onto what the Captain was saying, just for full
7 recognition with the committee. What's in the
8 MISLE database, for example, if there is a casualty
9 or whatever, it may just say fishing boat, right.
10 So, if the committee is looking for, you know, a
11 certain type of boat or a certain -- a lot of
12 that -- you know, a lot of that detailed
13 information that would be very helpful to have, is
14 not in -- you know, a lot of times is not in that
15 investigation, so it's not able to be pulled.
16 Sometimes it is; sometimes it isn't. So, you know,
17 it's just what's -- what's available in those -- in
18 those investigations.

19 VICE CHAIR ALWARD: I think a lot of that data
20 is more in NIOSH's realm. The more -- the more
21 refined, detailed vessel-type (indiscernible),
22 NIOSH has a lot of that data.

23 CAPT NEELAND: Just a super quick comment.
24 Just keep in mind, though, NIOSH casualty data is
25 slightly different than Coast Guard casualty data.

1 They do have some difference in reporting
2 requirements, so it won't always match up one to
3 one; however, their data is equally useful in
4 evaluating and -- and helpful.

5 MR. THEILER: Do they get our data to analyze
6 it?

7 CHAIR DZUGAN: The source is the same,
8 ultimately, right?

9 CAPT NEELAND: Yes.

10 CHAIR DZUGAN: MISLE? Any other comments,
11 questions? Hearing none, thank you, Omar.

12 PUBLIC COMMENTS

13 We're about an hour behind for public
14 comments, so if it's okay with you, Captain,
15 (indiscernible). If there's anybody here who
16 wishes to speak out on any of the issues on the
17 agenda in the audience?

18 Katie Knifong, you want to come up and use the
19 mic, state your name?

20 MS. KNIFONG: I just have a couple of quick
21 comments. I'm just going to keep -- Katie Knifong,
22 Trident Seafoods. I'm just going to throw out
23 there because I may or may not have read and
24 understood what I was hearing, so if I did, just
25 let it go in one ear, but it's just going to be

1 short.

2 Work/rest hours, one of the slides mentioned
3 to look into or look at logging for work/rest
4 hours, and they -- would that be for everyone on
5 board every day throughout the trip or voyage, or
6 is it just per incident? It already is logged on
7 the 2692 on the Coast Guard work/rest form for SMIs
8 for serious marine incidents.

9 Deckhand credentials, one slide that I read --
10 I don't know if I read it right, but it said
11 mariners on commercial fishing vessels to look into
12 should they be issued a credential or -- or some
13 kind of competency. So to me, we've already given
14 a Coast Guard license to our masters, we -- the
15 world, Coast Guard and the employer, has deemed
16 that Captain competent to train and safely lead the
17 lives of those crew members on board.

18 If we have to require -- first of all, a
19 credential is nothing; it's a piece of paper. We
20 can require everyone on the boat to have a
21 credential. It's not going to make them any safer.
22 If we require them all to have BSD, or a form of
23 BSD, that would make them safer. It's education,
24 its training. A credential's none of that.

25 Brackets, fire extinguisher brackets, I'm just

1 throwing this out there. They're already addressed
2 in our required fire equipment training cert on
3 every vessel, and the people that do our cert, I
4 know, are sticklers for it. So, I know that's
5 already addressed, whether we -- it should be
6 twice, then we'll get into the eye roll. Well,
7 that vendor said it was okay, how come it's not
8 okay with you guys or vice versa.

9 And first aid, I just have a question on -- it
10 just seems odd to me that CPR is required every
11 five years, but first aid isn't, first aid's just
12 once in a lifetime.

13 CHAIR DZUGAN: Katie, before you leave, can
14 you come up just for a second to the mic? I just
15 wanted you to describe, when you talk about your
16 vessels, what kind of vessels they are for the
17 record.

18 MS. KNIFONG: We have over a thousand people
19 at sea on fishing vessels --

20 CHAIR DZUGAN: Sizes?

21 MS. KNIFONG: -- every season.

22 CHAIR DZUGAN: Sizes?

23 MS. KNIFONG: All sizes.

24 CHAIR DZUGAN: Okay.

25 UNIDENTIFIED SPEAKER: What's her

1 organization?

2 CHAIR DZUGAN: Trident.

3 MS. KNIFONG: We have 250 on one, and we have
4 four on the others. We have 125 on several more.

5 CHAIR DZUGAN: Okay. That's helpful to give
6 some context.

7 But you had something to say (indiscernible)?

8 VICE CHAIR ALWARD: No, I just -- since we
9 actually, have some public, can you (indiscernible)
10 the public if they're allowed to participate in the
11 subcommittee process?

12 CHAIR DZUGAN: We're going to talk about that,
13 but yes. If you're here for the public, then in
14 (indiscernible) days for the subcommittee meetings,
15 we welcome you, especially if you bring expertise,
16 to those subcommittee meetings, as per usual.

17 Michael?

18 MR. TERMINEL: One more question.

19 UNIDENTIFIED SPEAKER: You can never leave.

20 CHAIR DZUGAN: Once get up there, it's hard to
21 leave.

22 MR. TERMINEL: Mike Terminel. You mentioned
23 that your captains are training. Are they OMZI
24 (ph) certified to do that instructor training on
25 board? If you could, clarify that. I just

1 wanted...

2 MS. KNIFONG: Drill -- we require anyone in
3 charge of a life raft to have a drill conductor
4 card every five years. It was my understanding
5 that, at some point, the Coast Guard was working on
6 requiring drill conductor every five years, but
7 that's only once in a lifetime. But I think a lot
8 of the big boats in the industry, too -- I think
9 Frank's also do -- require boat conductors with
10 their own people every five years.

11 CHAIR DZUGAN: That's a great example of a
12 company following the law before a regulation was
13 ever written about it, because that is in the
14 public law 111.281, refresher every years. Yeah.
15 And yeah.

16 MR. VARGAS: Yeah. Frank Vargas. It is five
17 years for renewal for the drill instructor. It's
18 every five years.

19 (Whereupon, member speak off the record.)

20 CHAIR DZUGAN: Matt?

21 (Whereupon, the Chair and Vice Chair speak off
22 the record.)

23 CHAIR DZUGAN: Thank you.

24 MR. WENDLAND: Thank you.

25 CHAIR DZUGAN: Anybody else from the public

1 wish to make any comments? Hearing none, seeing
2 none, you'll have a chance again tomorrow and on
3 Thursday midday afternoon.

4 Captain?

5 MR. WENDLAND: Did you want a short break or
6 continue?

7 CHAIR DZUGAN: What's the pleasure of the
8 group, because we were supposed to break up in 40
9 minutes. Do you want a quick 10-minute one now
10 just to stretch?

11 (Whereupon, multiple members speak off the
12 record.)

13 CHAIR DZUGAN: What's that?

14 MS. HEWLETT: What do we have left?

15 UNIDENTIFIED SPEAKER: What do we have left?

16 CHAIR DZUGAN: We have -- this is Tuesday.

17 FINAL DAY ONE THOUGHTS

18 VICE CHAIR ALWARD: Final day one thoughts.
19 That's what we have left.

20 (Whereupon, multiple members speak
21 simultaneously.)

22 MS. HEWLETT: Thoughts?

23 VICE CHAIR ALWARD: What are your thoughts,
24 Jerry?

25 CHAIR DZUGAN: Let's see, (indiscernible) but

1 no, I -- it should be open to the committee and
2 Coast Guard. Should we -- I've got --
3 (indiscernible) cases. I could use (indiscernible)
4 reading some more cases. (Indiscernible)
5 committee. I think -- unless anybody has anything
6 for us the rest of the day, I think we can leave
7 whenever I hear a motion to adjourn.

8 MR. WENDLAND: Jerry, before you do a motion,
9 I do know we do have a couple of Coast Guard folks
10 that will be not here tomorrow, so please take
11 advantage of their time while they're here today.
12 And some folks will, obviously, be here through the
13 meeting. But hopefully, you found the
14 presentations useful, and we'll try to continue to
15 bring presenters in the topics that are relevant to
16 the tasking at hand. So, if there's other topics
17 or other areas, you know, please do not hesitate to
18 ask, and we'll try to work to arrange that for the
19 committee.

20 CHAIR DZUGAN: Yeah. Thanks, Don, in the back
21 of the room there. Thanks for coming in, Don
22 Sherwood. Everybody else in the Coast Guard,
23 thanks for coming in today.

24 Do you -- I -- you -- is anybody not going to
25 be here from the Coast Guard tomorrow? You're all

1 coming back? Okay, yeah, the two presenters.

2 Yeah, Michael?

3 MR. TERMINEL: Mike Terminel. I'd like to, if
4 possible, I'd like to talk to Scott Wilwert, our
5 Alaska coordinator, because there's something in
6 Alaska that doesn't -- none of the rest of you are
7 even -- on -- on your -- on your plate on top -- on
8 this, and I just want to --

9 VICE CHAIR ALWARD: (Indiscernible)?

10 MR. TERMINEL: Pardon?

11 VICE CHAIR ALWARD: Tender (indiscernible)?

12 MR. TERMINEL: Save that for next -- yeah, but
13 there's -- yeah, there's a couple of things that
14 are -- I think that are really out of the box kind
15 of thing that we may need to discuss.

16 CHAIR DZUGAN: May I suggest that after we
17 break up here, we meet for a few minutes --

18 MR. TERMINEL: Sure. Great.

19 CHAIR DZUGAN: -- Alaska (indiscernible)?

20 VICE CHAIR ALWARD: I'm not available.

21 CHAIR DZUGAN: And maybe -- the other Mike out
22 there in the audience, too since Alaska and
23 District 13 are kind of -- kind of sisters and
24 brothers there.

25 MR. WENDLAND: Jerry, if I may -- Jonathan

1 here. Just one comment for the coordinators and
2 the public, tomorrow the meeting will commence at
3 0800, so not nine o'clock as it was today for you
4 folks. It starts at 0800, so that's for everybody.
5 So, meeting is 0800 both Wednesday and Thursday.

6 (Whereupon, multiple members speak
7 simultaneously off the record.)

8 CHAIR DZUGAN: Any other directions for the
9 Coast Guard? Needs? Any wants from the committee?

10

11 Mike?

12 MR. THEILER: Jonathan, -- sorry, I didn't
13 mean to shock you there. What's the deal with this
14 room? Can we leave our stuff here? Should we take
15 everything with us? Is it locked up, or?

16 MR. WENDLAND: My recommendation is to take it
17 with you, like your computer, the other stuff. You
18 know, the door's going to be locked, but I have no
19 idea how many people have access to -- you know,
20 keys to this place. So, I'm taking mine. So, if
21 I'm advising I'm taking mine, I'd take yours as
22 well just to prevent that -- any -- any...

23 MS. HEWLETT: I make a motion to adjourn.

24 CHAIR DZUGAN: Is there a second to the
25 motion?

1 VICE CHAIR ALWARD: (Indiscernible.)

2 CHAIR DZUGAN: Recess for the day.

3 MS. HEWLETT: Recessing.

4 CHAIR DZUGAN: So, is there a motion to recess
5 for the day and reconvene at 8:00 a.m. tomorrow
6 morning -- is there a second?

7 MR. TURNER: (Gestures.)

8 CHAIR DZUGAN: I see a second from David. Are
9 there any objections? Okay. We are recessing by
10 unanimous consent.

11 (Whereupon, the meeting recessed at 4:26 p.m.
12 EDT.)

13

14

15

16

17

18

19

20

21

22

23

24

25

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

C E R T I F I C A T E

STATE OF GEORGIA)
COUNTY OF COBB)

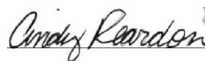
I, Cindy Reardon, Certified Court Reporter within
and for the County of Cobb and for the State of Georgia,
do hereby certify:

That the foregoing transcript is a true and
accurate account of the meeting held on April 9, 2024,
by the National Commercial Fishing Vessel Safety
Advisory Committee by me to the best of my ability.

I further certify that the foregoing pages
represent a true and correct record of the presentations
and conversations;

And I further certify that I am not a relative by
blood or marriage, or an employee of attorney or counsel
of any of the members or attendees at the meeting, nor
am I financially or in no way interested in the outcome
of the committee and/or meeting.

This the 24th day of April 2024.



Cindy Reardon (GA B-2191)
Certified Court Reporter

	10:15 55:19	18 253:5
<hr/> \$ <hr/>	10:22 67:4	16-24 29:4 69:19 251:19,20,24
\$50-a- 112:22	10:23 67:23 68:1	160 167:3 168:19
\$800 146:13	10:24 67:24	160.151 168:19 170:6
<hr/> (<hr/>	10:35 67:25	17 11:22 120:22 131:8,21 149:3 238:24 252:19 255:22
(a) 100:20	10:37 68:2	17-24 70:6
(b) 100:21	10:52 79:13	17-C 133:17
<hr/> - <hr/>	10th 170:14	17-month 181:8
-08 63:5	11 1:11 67:25 170:17 229:10,14	18 129:10
-24 29:4	11-15 129:17	18-24 70:17
-we 92:16	11-23 29:2 68:21	19 1:7
<hr/> 0 <hr/>	111.281 284:14	19-24 70:22
000 86:6	12 43:9 47:6 160:8 162:7 170:5,8, 10,17 171:4,13	1980s 248:22
01 200:11	125 4:17 283:4	1984 80:4
01-0 63:4	12:38 162:24	199.190 181:12
01-08 63:20 64:9 65:1,24	12:40 162:8	1st 139:12
0800 30:22 31:1 37:1,3 288:3,4,5	12th 46:24	<hr/> 2 <hr/>
<hr/> 1 <hr/>	13 11:25 43:14 44:1 160:8 287:23	2 37:18,19 80:14 151:24 199:8 224:12 268:13
1 30:23 35:2 80:14 166:8 200:11	14 4:8,14 29:3 44:14 161:21	2,401 58:5
1,300 99:17	14-24 69:1 235:18,20 238:22 252:24	2.7 190:16
1,332 173:18	140 62:25	20 44:15 66:7,20,22 81:25 84:11 113:5,6 259:5 260:16,23 261:12, 16,17
1,562 234:4	140(b)(3) 65:25	20-14 72:19
10 7:14 55:18 56:25 57:1,9,10 58:19,22 66:16,21 84:14 139:21 170:16,18,19 173:7 174:23 175:20 188:17 206:16 232:8,9 246:4 260:22 263:14 265:4	15 42:22 67:10 162:13,15 212:25 238:24,25 252:12,18	20-20 72:19
10-minute 67:10 285:9	15-- 251:21	20-24 71:3 72:16,18 259:6,9,21
10.203 128:17	15-20 29:4	20-year 232:15
100 94:3 129:25 130:6 137:11 143:22 145:18 148:2,8,24 149:6, 11,16 151:23 193:20	15-24 69:8 151:6 251:18,20,21,22	200 69:5,13,24 70:12 71:7 104:19,21,23 112:24 126:10,12, 15,17 147:10,13,21,22 148:4,6 149:17,20,24 150:1,5,8,11,15,21, 25 151:2,9 152:15 159:19 160:4,9 229:2,3 236:1 239:5 250:10,16,20 253:9 256:2 257:17,18 259:13 263:23 264:7
100-ton 148:17,18 255:8	15.805(a) 149:21	200,000 141:3
1000 76:24	15.810(a) 150:13	200-ton 147:17 148:10,15
	15.810(c) 150:12	
	150 149:8	
	150-ton 155:9	
	1500 192:6	
	151 168:20	
	1520 77:8	
	16 120:22 238:24 251:22 252:11,	

2003 172:17,20	2692 274:1,3 281:7	436 106:7,11
2007 172:17	275 166:23	45 56:12 160:8 192:2
2008 58:5 63:24 125:12	27th 46:23	450 97:1,2
2010 8:3 37:15 41:4,13 258:17	28 62:25 65:25 230:7,17 232:1	46 56:24 62:23,24,25 63:3 64:12 128:17 166:18,23 239:22
2012 37:15 41:4,13	28.110 62:23	48 88:6
2015 160:24	28.140(b) 64:12	4:26 289:11
2017 43:19 175:10 186:15	28.235 62:24	<hr/>
2018 112:4	280 4:20	5
2021 266:14,15 267:6	285 4:21	<hr/>
2022 191:13 232:11	2:00 109:22 162:23,25	5 55:18
2023 35:17 228:4 229:23 230:7 231:11,14	2ND 1:7	50 45:23 104:22 120:3 142:1 149:2 151:23 209:15
2024 1:11 4:3 29:3 34:7 35:14,18 58:5 63:24 72:7 191:13 228:5 229:15 290:8,19	<hr/> 3 <hr/>	50-ton 149:9
2025 34:7 97:15	3 152:4 181:10 224:18	500 195:22 212:20 213:24
21 4:15 15:2 79:20 80:11 81:12 82:11 83:19 84:7,17 86:8 89:11 186:10 259:5	3.7 174:9 186:1	500/1600 150:18,23
21-24 71:12 259:22	3/22 104:7	51 148:25
21-year 229:10	3/25 38:2	510 200:10
213 64:3	30 4:11,12 7:16 66:7 140:1,20 141:6 157:6 172:2 179:4,8 204:7 208:5,6,7 275:1,3,16	510,000 175:9 195:22
22 44:15 79:14 95:13,24 259:5	30-month 171:19 178:3 179:8	52 98:14,19
22-24 71:17 260:4	300-plus 128:5	55 4:13
226 4:19	33 256:16	5587 57:20 63:15
235 229:16	3306 166:18	5PC 14:18
24 29:3 38:4 47:6 88:10 89:14 263:13	34 148:25	5th 11:17,19
24-year 218:10	35-foot 154:14	<hr/>
24/7 88:8 121:6	360 144:11,13 147:14,18,23 148:9,15,20,21,25 149:3 153:16	6
243 229:12	37 4:12	<hr/>
24th 290:19	375 42:22	6 4:7
25 4:10 36:19,21 37:23 38:6 42:20 143:4 148:7,24 149:2,5,8 151:23	38 230:2,5,8,14	60 118:20
25,000 277:15,19	3:20 77:9	65 111:11
25.25-13 63:3	<hr/> 4 <hr/>	66 110:16
25.30-10 56:24	4 50:15 152:7 235:7	67 148:9
250 182:18 283:3	40 123:25 124:10,11,17,18 157:6 285:8	678-857-6121 1:25
26 36:21 143:4 149:3	42 192:1	<hr/>
		7
		<hr/>
		7 4:6
		7,405 63:25
		7-8 199:3
		7-eleven 60:19

70 111:11**719-C** 131:21 134:12**719-P** 132:5**720** 147:13 148:19**7th** 12:14

8

8 4:9**80** 4:16 81:5**80-something** 183:9**81** 261:24**835** 199:23**85** 16:5 24:7 229:19,21 248:24**8:00** 289:5**8th** 12:11 219:24

9

9 1:11 4:3 290:8**90** 136:13 144:1,2,13 147:12**911-type** 87:21**95** 159:25**9:00** 5:2

A

a.m. 5:2 68:1,2 289:5**A1** 84:9**ability** 27:18,20 59:10 245:23
251:15 265:11 290:10**aboard** 71:6 172:5,6 174:18
177:20**ABS** 214:6**absence** 220:3**absolutely** 32:2 38:12 49:23
74:10 225:4 232:12 255:10**accept** 73:13,21 74:17,22 78:1**acceptance** 74:1 163:5**accepted** 116:2 248:13,15 249:4**accepting** 73:17 74:5**access** 54:9,12 122:18 181:25
182:1 183:23 202:12 226:1,20
228:9 288:19**accessed** 184:17**accident** 41:6,9,12**accidentally** 111:4**accidents** 236:18 243:5**accommodate** 238:6**accomplish** 35:6 184:6 185:12
236:7 237:3**accomplishing** 35:12**accomplishments** 70:25**accordance** 7:10 59:23 63:2
64:14 171:22**account** 290:8**accountability** 146:21**accurate** 114:20 161:12 267:13
290:8**achievable** 244:5,6**acknowledge** 102:18 275:17**acknowledges** 70:25 102:19
132:1**ACR** 91:25**acronym** 82:7**act** 28:1,3 37:15 133:8 175:14
214:6 245:3 246:21 258:17**acted** 41:14,18**acting** 214:5**action** 17:13,20 41:19,24 42:2,3
74:19 75:17 242:16 245:8 271:18,
25 276:8,10**actions** 80:23**activate** 101:13**active** 72:25 173:20**activities** 58:7 64:2**acts** 258:10**actual** 87:20 131:17 133:8
141:11 181:4 193:11 202:5 228:5
233:10 268:1 276:10**ad** 96:10**add** 48:6,9,25 50:24 219:25
245:23 247:2 262:13 273:7**added** 48:22 197:18 238:11
253:22 255:18 266:21 267:11**addition** 24:8 57:22**additional** 17:17 19:21 20:5
58:21 69:16 78:4,16 141:7 151:11
170:15 174:1 178:8 187:21
238:12 239:7 242:17 243:24
246:2,14 247:4 272:19**additionally** 226:1 247:13**additions** 44:23**address** 17:2 23:8 30:19 38:17
45:4 58:13 60:24 63:19 67:12
68:10 73:6 184:20,21 219:7
240:22 246:20 258:13 262:18
267:18,20 271:5,11**addressed** 24:22 57:24 63:18
282:1,5**addresses** 63:22**addressing** 23:10 271:1,16**adequately** 64:7 65:12**ADFO** 2:18 48:23**adhesive** 174:21,25 187:20,23,
25 195:8,10 196:9**adjourn** 286:7 288:23**adjudicated** 266:22**adjust** 217:13**adjusted** 54:16**adjustments** 49:8**admin** 4:7 6:12,24**Admiral** 14:16**ado** 80:8 125:1**adopt** 254:23**adopted** 239:21 242:14**advance** 16:21,24 18:11 22:22
23:13 24:2 39:20 41:3,8 42:8
270:6**advanced** 18:10 21:15**advantage** 15:10 86:25 121:10
207:25 286:11

- advertising** 145:2
- advise** 81:23
- advising** 25:23 68:9 288:21
- Advisor** 2:19
- advisory** 1:2 4:2 5:6 14:14 16:12
22:23 27:13,16,25 28:2 43:8
50:14 274:18 275:10 290:10
- advocate** 240:20
- affected** 29:11 200:24
- afford** 21:19
- Africa** 21:19 181:19
- afternoon** 227:17 228:16 231:17,
20 285:3
- age** 186:13
- agency** 17:20 242:3 276:8
- agency's** 198:15
- agenda** 8:10,11,13,14 14:22
15:18 18:23 19:1 22:25 23:6,7
25:9 26:16,18 29:1 30:12,19 37:8,
16 38:17 39:10 46:7 51:7,9 53:13
55:8,17 77:8 79:8 94:10 124:4
163:2 269:13 270:9 280:17
- Agenda/goals** 4:14 14:21
- agree** 52:21 113:8 147:1 192:22
233:20
- agreed** 45:19 88:2
- Agriculture** 20:21 21:3
- ahead** 40:1 81:17 111:20 177:7
232:4,17 239:11 264:14 269:3
278:9
- Ai** 98:12 136:17
- aid** 57:23 144:17 148:13 149:14
248:19 249:3 276:23 282:9,11
- aid's** 282:11
- aids** 138:16
- aimed** 119:17
- air** 76:7 82:15
- aircraft** 85:8
- AIS** 83:8 84:5 90:1,2,3 91:25
92:8,16 93:3,20 95:14 96:13 97:1,
8,11,13 98:11,12,17 99:17 100:11
101:5 102:11 103:22 104:12,16,
19 106:8 107:13,15 113:23
- AISS** 92:25
- alarms** 6:8 99:11
- Alaska** 5:9 9:17,21 10:3,5,21
11:23 12:24 13:4 60:17 83:20,22
84:3,10,12,14 86:5,17 110:5
114:21,25 156:14 197:15 234:8
287:5,6,19,22
- Alaska's** 112:2
- alcohol** 8:18 71:11 228:19
229:13 231:22 259:17
- alert** 90:22 101:15 102:13,17
106:4
- alerts** 102:21
- alien** 155:25
- alignment** 48:15
- aligns** 35:23
- allowed** 115:18 175:16,22
217:14 283:10
- alma** 163:23
- alter** 48:3
- alternatively** 60:5
- Alward** 2:4 7:5 10:2 30:14,16
31:7,15 32:1,16 36:13,22 40:2
45:7 46:5,18 47:22,23 49:14
50:13 51:4 52:2,16,20 53:17
54:21 55:5,9,12,13 67:16 72:24
73:11,12 74:4,8,13,15 91:9 95:11,
23 96:2,4 102:10 105:11,17
106:10,22 110:4 113:1 115:21
116:1 117:18 120:10 129:1 144:6
148:1,4 162:5,20 186:14,17
190:12,20 201:20 202:1 208:2
215:11,15 216:10 222:15,17
223:5,22 224:22 226:5,9 233:2
253:1 258:23 266:5 269:4 276:18
277:10,14 279:19 283:8 285:18,
23 287:9,11,20 289:1
- amazing** 106:3 110:15
- Amazon** 93:6
- amend** 49:3 50:10 53:7,9
- amended** 50:24
- amendment** 49:10 50:9 52:14
53:4
- amendments** 49:4,6,13
- America** 189:20
- American** 105:22 118:5,17
- Americans** 116:21
- amount** 77:3,13,25 140:3,12
148:19 151:19 216:15 242:25
263:12 277:9,10,20 278:5
- amplifying** 138:9
- Amsterdam** 98:14
- analysis** 11:6 19:5,10,12 40:16
98:13 210:13 212:14 213:14
217:18 227:19 240:7 242:21
243:8
- analysts** 98:13
- analyze** 71:18 260:4 280:5
- and-a-half** 172:25
- and/or** 290:18
- Ange** 54:22
- Angel** 2:19 13:18,19,20,21 37:11,
19 51:24 57:4 67:17 80:9 159:15,
24 196:16 228:1 229:7
- animated** 201:18
- annoy** 102:19
- annoying** 189:25
- annual** 66:17 192:9
- answers** 109:7 115:6 157:22
158:19 159:10
- antenna** 99:22 104:18,21 106:8
- antennas** 105:4,5 106:17 119:18
- anybody's** 100:13
- anymore** 87:14 99:10 101:5
112:22 164:21 175:1 267:13
- anything's** 134:14
- anytime** 17:7 61:8,24
- AOR** 63:13 189:21
- apologize** 36:25 185:25 207:18
- apparatus** 63:17 111:5
- apparent** 21:25
- apparently** 52:22 97:10,14
- APPEARANCES** 2:1
- appears** 260:23

- applaud** 13:13
- Apple** 120:24
- apples** 218:6
- appliance** 63:23
- appliances** 165:18,24 166:7
194:7
- applicability** 159:16
- applicable** 30:2 62:22,24 65:10
167:6 168:1 251:17 258:11
- application** 113:23 125:24 126:1
127:25 128:14 131:5,11,14,16,17,
22 132:7,8,21 133:9,13 134:7
135:16 136:8,15 138:2 140:19
156:10
- applications** 117:24 127:9,21
133:5,7 136:16 140:3,24 141:19
142:2
- applied** 97:11 128:19 173:10
- applies** 97:12 139:25 216:23
- apply** 126:3 137:22 148:1 180:1,
11 181:15
- applying** 132:16,23 135:22,25
136:7 138:14 141:22 142:7
- appreciated** 49:17
- appropriately** 242:4
- approval** 47:14 49:2 50:3 59:22
62:6 92:22 94:17 165:2,17 167:1,
15,16,23 168:2,19 169:2 180:21
182:22,25 193:18 203:11 206:11
213:7,12 221:8,17,24 222:3
- approvals** 15:10 166:24 213:5
- approve** 49:7 59:17,21 212:18
222:6
- approved** 47:9 50:11 53:6,8
59:16 92:8,10,13,16 93:5 94:23
96:17,22 97:2 110:7 117:5 123:7
128:6,9,20,24 129:15,21 132:23
136:21,23 137:2 144:22 145:11,
14 146:13 147:2,3,6 152:1
167:17,21 168:13 171:22 172:8
173:20 180:2 183:4 184:14 188:9,
15 193:20 205:25 213:1 221:6,7,
11,19,21 222:11 223:9 224:4
246:4 248:14,16 249:4
- approving** 197:25 212:23 213:8
- approximately** 110:20 140:16
- April** 1:11 4:3 290:8,19
- aquaculture** 20:24
- arc** 75:22
- Architects** 9:19
- architecture** 193:15
- area** 9:11 90:2 113:24 119:14
121:24 240:23
- areas** 23:11,14,19 99:6 239:23
269:15 286:17
- argue** 21:24 202:24
- Arguin** 14:16
- arise** 58:24
- arm** 42:6
- Army** 164:16
- arrange** 286:18
- array** 22:14
- Article** 30:22 35:2 49:2 50:15
53:8
- ASA** 82:3,17
- ASAP** 177:22
- Asian** 110:5
- aspect** 38:1 247:12 263:3
- aspects** 127:8
- aspirin** 166:1 197:7 198:8,12,19,
21 199:1
- assault** 134:19,21
- assess** 69:3 235:24 236:6
- assessed** 65:11
- assessment** 71:9 259:15
- assessments** 135:24
- assets** 13:4 83:3 111:5
- assigned** 73:16 168:22
- assignment** 163:10
- assist** 15:21 278:20
- assistance** 90:4 157:16,20 158:2
- assistant** 14:16 150:20,24
- Associates** 10:22
- Association** 9:8 10:6
- assume** 73:12 74:5 117:10
253:23 261:15
- assuming** 51:21 251:4 263:10
- ATOMS** 92:20
- ATON** 113:17,22
- ATONS** 113:15 114:10
- attempt** 52:17
- attend** 14:2 24:23 26:21,22 79:1
81:15 95:20
- attended** 20:18
- attendees** 290:16
- attending** 249:1
- attention** 16:5 56:3,7 63:12 68:5
120:21
- attorney** 29:23 290:15
- audience** 7:20 11:2 182:20
280:17 287:22
- Auth** 245:3
- author** 165:19
- authorities** 166:17 240:21
- authority** 49:16 59:6,8 69:12
151:8 166:21 175:17 222:3 239:4,
14 241:2 243:16 244:25 252:3
- authorization** 37:15 133:3
258:17
- authorize** 133:10
- authorized** 181:5
- automatic** 87:7
- automatically** 85:18 87:17
149:5
- autonomous** 93:16
- average** 42:20 108:17 174:8
186:4 229:8,14,20 230:11,17
231:10
- avoid** 60:8 192:8,19
- awaiting** 136:9 141:18
- awake** 76:13
- award** 70:25
- awards** 8:17

aware 22:1 64:17**awareness** 30:17

B

B-2191 290:21**baby** 104:10 249:12**back** 6:23 7:16 26:24 36:11 38:9
39:17 41:4 46:13 51:25 53:11
58:4 60:1 61:13,25 67:12,24 68:3
88:25 95:5 100:8 104:23 108:4
109:16 114:2 121:16 122:14
124:10 129:11 130:1,10 136:14
138:9 139:4,15,16 153:10 154:13
158:15,19 159:10,15,19 160:20,
22 162:6,14,23 164:5 177:19
179:7 181:2 183:11,15 195:25
196:5 200:20 201:9,23 202:17,21
203:3 206:19 214:22 218:22
219:13 224:8 231:2,13 237:23
238:3 245:9 268:19 271:13
272:15 286:20 287:1**back-populate** 268:21**background** 81:21 98:25 128:21
130:17,19,24 131:2 132:3 164:9
167:20 253:24 254:9**backgrounds** 22:18,20**backlog** 141:12 143:7 266:15,18**backpack** 186:22**backside** 278:17**backup** 84:18 117:14**backwards** 251:19**bad** 66:23 80:14 84:21 94:8
103:25 116:21 120:15 217:25**bag** 209:3**bag's** 210:4**bailer** 171:9**balance** 23:9,13 270:3,9**ballot** 34:13**Baltimore** 274:8**band** 101:1**Barb** 154:2,5 159:23,25 201:19
204:2 209:6,8**Barbara** 2:13 10:7 144:24**barely** 21:19**barometric** 114:12**base** 70:13**based** 17:5 60:5 173:14,17 175:3
212:5 240:3 249:5,6 272:21 276:9**baseline** 69:25 253:11 256:3,10,
15 257:16**baselines** 257:11,20**basically** 19:18 30:5 92:24 98:16
100:1,6 106:6 125:25 129:17
131:22 218:15 228:3 236:4 238:6,
13 239:25**basis** 33:9 179:12 205:5**batteries** 171:11 182:15**Beach** 1:3,8 13:24 14:17 164:20**beacon** 90:2**Beacon/rescue** 4:15 80:11**beacons** 92:17**bearing** 86:9,12**beat** 107:2**beautiful** 14:7 164:19**beginning** 32:20**behalf** 61:9,21 133:5,8,11 214:5,
7**Belfast** 197:22**beliefs** 26:3**belongs** 218:19 223:24**Ben** 9:6 140:8,9 200:6,7 218:4,5
232:4,5**benefit** 15:17 224:6,7 271:9**benefits** 90:21 151:14**Bering** 112:6,7 234:11**biannual** 58:16 65:3 161:14**big** 13:25 59:17 91:2 92:2 99:22
102:3,16 104:20 109:18 113:24
116:21 124:4 134:20 135:17
139:11 141:18,20 142:17,18
146:4 148:14 154:5 166:12 167:7
179:20 188:7 189:18 191:12
192:5,18 198:7,13 234:11 236:14
251:24 284:8**bigger** 89:17 112:8 174:5**biggest** 108:18 154:7**bill** 241:7**birds** 257:3**bit** 22:8 41:15 45:25 49:1,9 58:14
73:2 76:8 77:10 81:13 83:1,16
96:14 108:4 115:9 165:2 167:15,
20 172:3,12 175:11 194:18
216:20 227:1 229:8 257:8,9
262:14 278:18**black** 60:15**blew** 111:17**blink** 94:24**block** 14:5**blocked** 98:20**blood** 290:15**blowing** 114:12 212:22**board** 38:20,21 234:18,24 281:5,
17 283:25**Board's** 9:13**boarding** 64:1**boardings** 58:7**boards** 38:14**boat** 103:25 104:4 106:12 112:21
154:14,23 215:15 220:19 279:9,
11 281:20 284:9**boat's** 113:10**boaters** 86:3 101:20**boating** 101:23 102:3**boats** 10:9 60:25 79:20 160:9
161:4 191:24 212:6 261:12 284:8**bodies** 142:17,25 143:5**body** 21:17 225:23**Boehmer** 2:12 10:16 32:11,13
34:10,18 35:13 36:5,15 116:7
129:7 146:11 185:23 186:23
230:1,9,18 253:18,25 254:2 255:3
263:22 264:3 272:22 273:3,6,9
274:1**book** 137:15 156:18,20**booklet** 43:20

- books** 237:21
- boots** 194:11
- boring** 82:13
- boss** 24:19 81:2 96:7
- bot** 187:13
- bottle** 187:9,14
- bottom** 37:25 65:6 228:10
- bought** 105:23
- boundary** 257:21
- box** 244:15 245:16 249:9,11
254:12 267:7 287:14
- bracket** 56:8 58:25 60:19 61:4
- brackets** 58:8,11,24 281:25
- branch** 134:9 135:19,21 137:18
138:1 139:6 158:6
- branches** 135:18
- brand** 171:13,15 172:7,9 174:13
176:25 179:7
- Brandon** 10:18
- Brazil** 188:11,14
- break** 55:19 56:3 67:4,9,11 68:1
124:9 162:22,24 252:20 285:5,8
287:17
- breaking** 141:14 271:9
- breakout** 229:1
- Brian** 3:3 12:7 15:4 125:8 159:14,
16 254:20
- bridge** 38:23 99:10 100:18 194:8
251:14 278:6,7
- briefly** 56:6 126:20 143:17
149:17 151:5
- bring** 15:24 19:6 33:8 56:15
63:11 79:16 106:24 157:13
160:10 163:14 177:22 185:10
191:9 200:15 201:22 225:7
283:15 286:15
- bringing** 141:7 238:3 250:8
- brings** 13:22 184:1
- broad** 6:1
- broadcast** 107:11
- broadcasting** 106:19
- broke** 228:11 277:2
- brothers** 203:14 287:24
- brought** 14:22 56:2,7 78:7,8
79:21 215:10
- Brown** 10:18
- Brownsville** 9:2 12:25
- Brunswick** 182:6
- BSD** 281:22,23
- BSX** 211:11,17
- bucks** 120:4
- build** 77:12 83:24
- building** 181:4
- built** 172:1 193:14
- built-in** 91:25
- bulbs** 105:23
- bullet** 43:22
- bullies** 116:22
- bunch** 17:1 19:10 23:3 40:17
240:7 270:4
- buoys** 82:3 114:2,5 194:7 237:14
- bureaucracy** 246:1
- burn** 158:13
- business** 4:12,13 29:10 30:10,
12,13 31:5 37:6,8 43:4 46:21
55:17,22,23 56:5 68:7,15 71:25
79:8 112:1 154:16 185:1
- businesses** 120:13
- busy** 6:4 80:7
- button** 86:4 102:1 110:23
- buttons** 85:20 265:7
- buy** 86:20 101:20 105:13 224:17
- buying** 169:16
- bylaw** 49:2 52:22
- bylaws** 30:23 36:4 46:22,23,25
48:1,2,3,7,10,17 49:3,10,15,25
50:5,15,19,24 51:1 52:14 53:1,11,
16 54:7,10,14
-
- C**
-
- cable** 101:24 102:5 107:1
- Calderon** 2:19 13:19,20 72:15
96:8,12 121:17 122:2,3,5 153:12
164:24 259:7
- calendar** 29:3 30:24 31:3,14,16,
23,24 32:5,6 33:22,24 34:7,24
35:3,14,20 36:3,19
- call** 4:5 7:18 32:1 37:11,12 57:4
67:24 80:9 87:21 101:13 104:3
109:22 110:24,25 111:7 121:21
156:9 162:18 166:25 170:20
206:6 214:2 265:2 271:17
- called** 86:24 93:15 97:10 170:16
171:21 182:4 250:1,2 262:17
264:1 265:13
- calling** 86:1 87:12,16 256:17
- calls** 88:5,7,12 115:22 116:13
- calm** 114:24 115:1
- camera** 146:15
- Canada** 165:5 172:13,14,20
173:11 182:6 220:17,19,20,23
221:7
- Canadian** 173:10,16,17 186:6
- canceled** 122:5
- canoe** 22:2
- canoes** 21:12
- canopy** 187:16 198:4
- capabilities** 91:11
- capacities** 149:18
- capacity** 114:10 140:24 150:11,
12
- capita** 220:18
- CAPT** 14:12 27:1,6,8,12,17,21,
23,25 28:4,7,11,13,16,25 32:3,8,
12 33:2,15 36:16,24 39:8 40:12
42:1 48:25 49:23 51:15 52:25
61:7 75:2 77:22 95:21,25 96:3
231:12 232:18 233:13 239:16,19
241:12,17 244:9 246:6 247:3
251:2 254:8 255:9 256:15 257:1,5
265:10 266:1,8 269:11 271:21
275:3 278:10 279:23 280:9
- captain** 2:17 5:19,21 6:3 9:23
12:18 13:10 14:9,17 24:4,7 25:17
26:6,23 28:18 30:4 39:4 41:1 48:9
51:14 64:21 75:1 76:3 77:21
212:4 232:17 233:8 239:13 244:7

- 256:7 271:20 278:9 279:6 280:14
281:16 285:4
- captain's** 94:4 154:15 224:7
- captaining** 140:11
- captains** 154:7 283:23
- capture** 237:1
- card** 129:8 130:16 140:13 253:21
254:9 284:4
- care** 119:11 124:16 198:18 210:9
276:16
- cared** 210:8
- career** 12:23 237:12
- cargo** 38:23 264:18,22
- carriage** 90:9 167:3 219:4
- carried** 167:24 169:4
- carry** 27:21,22 63:9 119:24 189:5
- carrying** 264:18
- carved** 100:1
- case** 2:20 4:19 12:3,4 100:12
159:23 176:3 178:14 198:17
202:5 208:12 221:1 222:10,22,23
226:24 229:17 266:19 267:1,14,
19 270:14,18 271:11
- case-by-case** 179:12
- cases** 77:9 100:8 163:9 227:11
234:5 235:14,16 238:9 242:13
262:15,18,19,20,22 266:12,16,21
267:8,11 268:1,4,6,8,18 269:7,8,
14,24 270:4,12,23 271:3 276:25
277:1 286:3,4
- casualties** 17:14,16 18:17 212:5,
8 216:10,13 218:7,12 229:11,16
234:20 235:7 236:18 243:10,17
263:1 269:18 273:11,25
- casualty** 4:19 11:6 17:8 210:13
212:14 216:3,5,7,16,22 217:1
220:23 226:24 227:11,19 234:17,
23 235:1,3,4 241:18 242:19 262:7
273:13,14,19,24 274:4 276:15,24
279:8,24,25
- cat** 243:10
- catastrophic** 278:8
- catch** 48:17 121:23
- catching** 205:2
- categories** 93:3 107:7 149:7
- categorized** 265:20
- category** 93:17,18
- cats** 80:2
- caught** 48:24 194:16,17
- causal** 229:16 234:16,22 262:21
263:2 268:9
- causing** 61:18
- caveats** 117:9
- cell** 119:16 120:22
- center** 83:9 103:5 110:25 119:1
125:15 127:5,16,19 128:1,24
131:3 134:5 135:17 141:5 144:21
158:25 193:13
- Center's** 107:5
- centers** 127:19 131:9 134:6
157:14
- centric** 98:2,3
- cert** 139:4 143:25 282:2,3
- certificate** 137:21 138:15,25
149:14 151:13 169:2,15,18,21
171:18 223:14 250:6
- certificates** 8:15 69:18 132:22,
24 183:2 239:9 244:1 248:3,12
- certified** 89:5 93:10,11 116:4
171:8 178:6 180:17 219:1 283:24
290:4,22
- certify** 290:6,11,14
- CFBS** 243:25
- CFR** 56:24 62:23,24,25 63:3
64:12 108:5 128:17 166:23 180:5
184:1 256:16
- CFRS** 168:1
- CFV** 152:14
- CFVS** 151:16 152:15 243:25
- CG** 52:8 109:9 182:22 183:2
184:10 227:3 239:3 265:8,11,14,
17,21,22 266:4 278:10
- CG-** 132:4
- CG-5PS** 127:2 165:13
- CG-719-B** 131:16
- CG-ENG** 163:18
- CG-ISSUED** 239:6
- CG-MMC** 15:5 124:25 125:14
127:3
- CG5587** 57:14 63:15
- CG672** 15:1 79:17 123:17
- chain** 47:1,9 49:22
- chair** 2:4 4:11 7:3,5,9 10:2,4
30:15,16,18,23,24 31:7,13,15,18
32:1,16,21,23 33:5,7,17,22 34:6,
11,15,16,20 35:4,5,7 36:7,13,22
38:8 40:1,2,21 42:18 45:7 46:5,18
47:23 48:2 49:14 50:13 51:3,4,12
52:16,20 53:17 54:21 55:3,5,6,9,
12,13 65:22,23 67:3,16 72:3,5,7,
16,18,24 73:7,12 74:4,8,13,15
76:20 77:21 91:9,23 94:12 95:11,
23 96:2,4,10,13,24 97:4,5 102:9,
10 105:11,17 106:10,22 110:4
111:21 113:1 115:21 116:1
117:18 119:21 120:10,17 121:8
122:10 124:7,19 129:1 130:15,21,
23 135:5 140:8 142:8 143:10,13,
15 144:6 148:1,4 153:9 154:2
156:13 157:8 158:10 159:12
162:5,7,17,19,20,22 163:15
186:14,17 190:10,12,20 191:15
194:15 196:12,13 200:6 201:17,
20 202:1 204:1 205:21,23 207:25
208:2 209:6 211:4 212:15,19,20
215:11,15 216:10 217:15 218:4
219:13,16 220:7,16 222:13,15,16,
17 223:5,22 224:22,23 225:2,5,
12,18 226:9 231:4 232:4,17 233:2
234:1 235:10 236:13,16 237:6
239:11 243:20 244:7 247:24
248:2 249:17 251:8,18 252:8,14,
23 253:1,3 256:6,23 257:2,6
258:15,23 259:2,19 260:1,8,13
264:6,11,14 266:5 267:22 269:2,4
271:20 272:5 274:12,14,15
276:11,18 277:10,14 278:8 279:3,
19 280:7,10 282:13,20,22,24
283:2,5,8,12,20 284:11,20,21,23,
25 285:7,13,16,18,23,25 286:20
287:9,11,16,19,20,21 288:8,24
289:1,2,4,8
- chairman** 2:3 7:4,6 35:24 38:7
67:15 163:13 272:22
- chairman's** 227:10

- chairperson** 30:18
- challenge** 82:16 146:22 255:10
- challenges** 21:8,16,23 22:10,12 233:14
- challenging** 231:2
- chance** 24:15 26:12 49:21 56:10 101:12 285:2
- change** 67:20 98:6 100:6 103:21 127:15 173:13,16 217:19 240:21 244:24 245:1 246:10,22 247:7,9, 10,14 266:24 275:24 276:1
- changed** 45:14 139:9 232:21 277:6
- changing** 232:22
- channel** 113:25 114:2
- channels** 92:24 100:2
- chapter** 181:10
- characterize** 41:23
- charge** 59:2 81:3 150:3 284:3
- charges** 134:14,23,24
- chart** 87:8 99:11 114:3 128:11 152:3 196:16
- charted** 23:20
- charter** 16:25 22:22 23:21 46:22, 23,25 47:4,7,11 48:11 49:5,8,11, 15 50:4,11 51:22 52:6,17 53:1 54:10,14,19
- chartered** 23:20
- charting** 257:16,20
- charts** 196:17 257:13,14
- chatting** 195:17
- cheaper** 177:4,7
- check** 6:7 14:6 52:3 57:16 130:17,19,24 131:3 145:16 160:16 161:9 173:11 189:9 220:12 253:24 254:10
- checked** 161:12 174:18 182:12
- checking** 96:18
- checklists** 63:9 136:2
- checkouts** 57:17
- checks** 161:16
- checkup** 138:18
- Chesapeake** 83:2,5 84:25 88:4
- chew** 271:14 274:19
- Chichagof** 120:19
- chief** 9:24 150:10,13,20,24 160:18 161:1
- China** 197:23
- chip** 108:13
- choir** 248:25
- choose** 13:25 242:15
- chosen** 17:22 46:17
- Christi** 12:24
- Christopher** 2:5
- chronological** 252:7
- CID** 123:14
- cigar** 92:3
- Cindy** 290:4,21
- circular** 184:2
- circumstance** 60:6
- circumstances** 59:2 61:2 179:13 188:18
- circumvent** 191:24
- citing** 108:5 115:7
- citizen** 135:8,9,14 154:12 155:16, 18,24
- citizens** 154:11 155:21
- citizenship** 154:8
- civilian** 83:11 96:4 125:13
- claims** 10:19
- clarification** 31:8 72:23 76:18 271:22
- clarifies** 258:18
- clarify** 33:23 283:25
- clarity** 185:4 240:14 258:14
- class** 82:21 97:10,15
- cleaner** 63:1
- clear** 17:4 18:12,15 36:2 37:1 40:22 41:12 53:18 179:13 258:2
- cleared** 138:24
- clears** 258:18
- click** 37:19 183:22 265:8
- close** 34:4 48:23 68:15 75:5,16 77:17 79:7 241:21,25 242:3 266:18 267:7,14,20 270:4 274:6
- closed** 32:18 265:24 266:7,12, 13,16 267:3 270:14
- closer** 45:25 111:11
- closes** 36:22
- closing** 48:19 73:17 209:17
- CMI** 61:21
- CMIS** 184:15
- COA** 169:22 189:12 214:18 224:1
- COAS** 206:10
- coast** 5:15 9:25 10:8 11:2,6,13, 22,24 12:8,11,23 13:3 14:23 15:19 17:7,11,18 18:3,22 19:1,3, 4,7,11,22,24 20:3,17 22:10 25:16, 21 29:23 34:2 37:15 38:16,22 39:1,9,11,14,25 40:13 41:2 42:7 51:11 57:22 58:1,3 61:9,13,21 63:11,18,21 64:6,25 66:3 69:11, 14 70:21,24 71:21 74:23 75:4,9, 12,15,24,25 79:22 80:21 81:11 82:1 83:7,12 84:12 86:4,5,10,16, 17 87:13,17 88:10 89:9 90:10 93:21 95:7,12 103:5,8 104:16 106:14 107:21 108:19 111:1 116:8 117:6,23 119:1,9 122:19 123:2,7,19 125:12,22 128:7,15,20 133:6 134:21 140:11 142:4 144:20 145:11,15 146:12 152:1,6 164:19 165:5 166:2,3 167:17,21 168:7,10,14 169:2 171:22 172:15, 17 173:20,24 179:14 180:1,3,25 181:11,24 182:25 183:4 188:9 190:21 193:19 196:23 204:7 214:6,7 216:17 219:24 220:4 221:6,7,12,15,24,25 222:10 223:9 224:3 226:20 227:19 233:7 237:21 240:20 241:4,19,20,23 242:13,22 243:11,18 244:17 245:3 246:3 248:5,14,23 249:4 255:5 260:7,19 264:25 274:17 275:9 276:2 279:25 281:7,14,15 284:5 286:2,9,22,25 288:9
- Coast-guard-approved** 148:14 175:8 218:16 223:11

- Coast-guard-issued** 151:10
- coastal** 143:23 144:11,12,14
147:15 148:20 149:6 151:20
152:16 164:10 209:13,14,18
210:25 253:11 256:3
- coasts** 220:17
- coastwise** 181:24
- Cobb** 290:3,5
- code** 63:5,6 166:11,12,18 167:12
168:20 239:22
- codify** 236:4
- COI** 177:18 181:21
- cold** 195:19 219:3
- collaboration** 50:21 51:8
- collect** 108:10 176:6,8,9 217:9
- collecting** 217:11
- Collection** 175:14
- collects** 161:22
- collisions** 98:15,21
- colorful** 16:16
- columns** 272:19
- combination** 225:14
- combined** 172:15 238:13
- COMDR** 12:15
- comical** 114:22
- command** 1:23 83:8 110:25
149:23
- Commandant** 14:17 151:7
251:23
- Commander** 12:15 13:17,22
- commence** 288:2
- comment** 4:20 12:20 16:15
19:19,20,25 20:1,4,6 26:10,13
40:17 49:21 51:14 95:22 96:3
191:19 219:14 220:9 247:23,24
251:10,18 267:22 272:10 276:2
278:10 279:23 288:1
- comments** 16:6,9,10,16 17:1,3
18:12 24:5,11,12 40:4,15 50:2
58:21 64:5 65:18 67:2 108:16
183:8,9,14 248:10 251:7 259:2,19
260:1,9 279:3 280:10,12,14,21
- 285:1
- commercial** 1:1 4:2 5:5,14,16,17
9:3,21,24 10:3,9,18,24 12:12
13:5,8 14:14 22:23 27:13,16
45:17 58:6 59:18 64:1 69:5,12,17,
22,23 70:10,11,20 71:5,6,19
101:5 125:24 127:2 129:3,6
140:17 151:8 154:6,23 155:6
160:1 165:12 167:25 170:7
179:25 182:19 211:17,18 216:21,
23 217:2,4 234:21 235:25 239:4,8
241:14 251:11 253:8,9 254:18
255:15,24,25 256:1 259:11,13
260:5 263:17,20 264:17,19
268:23 281:11 290:9
- commercially** 22:1
- committed** 254:6
- committee** 1:2 4:3 5:6,19 6:10,
25 7:4 8:4,11 14:15 15:21 16:13,
20,21,25 17:21,25 20:8,15 22:13,
24 23:4,5,10,21 24:11 25:7 27:14,
16 28:1,3,23 30:1,25 32:3 33:3
34:15 39:10 46:6 47:10 49:17,21
50:2,14,16,18,19,21,23,25 51:10
52:13,18 67:19,21 69:2,10,20
70:7,18,24 71:3,13,18 72:1 73:14,
16,20 74:21 75:11,20 78:12,15
124:8,12 166:7,13 235:23 236:3
238:2 239:2 244:11,15 246:7
251:5 253:6 254:13,19 255:22
259:10,22 260:4 262:11 270:6
272:4 276:19 278:21 279:7,10
286:1,5,19 288:9 290:10,18
- committee's** 51:1 73:14 74:16
75:7,18 269:8,22 274:18 275:11
- committees** 276:3
- comms** 4:16 79:20 80:12 82:24
103:7 107:8 108:1
- communicate** 34:1 56:15
198:24
- communicated** 179:14 194:9
- communicates** 65:10
- communication** 11:10 15:2
20:12 80:19,24 81:8 104:12,13
109:12,19 115:23 121:25 123:10
- communications** 80:25 81:24
82:9 83:2,12 84:5 87:20 118:7,9
- communities** 88:16
- community** 13:25
- companies** 20:25 119:17 175:8
177:13 180:1 212:24
- company** 9:16 93:7 112:19
116:24,25 120:16 152:11 173:22
182:5 284:12
- company's** 173:19
- compare** 220:9
- compared** 194:8 264:1
- comparing** 207:1
- comparison** 186:8 187:1 190:15
260:15
- competence** 69:4
- competencies** 58:1 62:19 63:19
65:2 235:24 236:8
- competency** 8:15 56:20 69:4,17
151:13 236:4 239:8 243:25 248:3,
12,18 249:6 281:13
- competent** 281:16
- competing** 42:14
- competitive** 111:10 208:11
- complete** 131:14 141:19 148:13
151:25 163:4 168:5
- completed** 44:1 139:8
- completely** 131:18
- completing** 152:6
- completion** 149:14
- compliance** 5:17 9:15,25 14:18
65:9 128:8
- complications** 39:17
- complies** 153:12
- comply** 105:21 168:3
- component** 187:15
- components** 57:24
- computer** 288:17
- conceptually** 51:21 53:12
- concern** 30:6 50:12 61:18 62:14
66:19 97:8 208:5
- concerned** 66:9 253:21
- concerns** 19:4 39:17 56:2,6
58:24 62:12 78:24 191:17

concludes 55:16 71:24 260:12
conclusion 33:21 56:5
concur 36:13
condemnation 172:22 173:8,25
 175:13 187:1
condemnations 175:24 176:14
 210:12
condemned 172:24 173:1,5
 186:13
conditioned 82:15
conditions 138:17 228:23
 229:19 231:22
conduct 17:8
conducted 128:22
conductor 248:13 249:3 284:3,6
conductors 284:9
conference 20:19,22 21:5
 167:11 238:21
configuration 106:18
configure 101:21
confirm 36:16
confirmed 62:16
conflict 28:20 29:5,22
confuse 258:11
confused 35:16 253:19
confusion 257:9
congratulations 65:7
Congress 40:14 41:4,13 47:5,10,
 12 219:10 239:20 240:19 242:11,
 15 243:19 246:20
congressional 42:2,3 47:13
 53:8 218:21 245:8
connect 109:23
connected 86:1
Connecticut 10:25
connection 87:22
cons 19:14
consensus 166:9
consent 289:10
considerations 61:5
considered 228:24 252:12
 264:19
consistency 56:8
consistent 49:4,5,11 51:18
 257:11
consistently 276:2
consortium 152:8,11 154:19,20
 155:5
constitutes 234:13,15
constructed 169:12
construction 234:3,9
constructive 228:6
consultation 52:9
consulting 81:8
consumes 204:11
contact 78:11 180:8
contacted 59:1 116:15
contacts 99:17
container 5:23
content 64:25
Contents 4:1
context 219:25 283:6
continuation 8:9
continue 22:9 23:12 33:5 39:21
 47:11 85:3 225:20 264:10 269:18
 285:6 286:14
continued 20:13
continues 217:16,24
continuing 29:2 68:20
contract 172:19 203:20
contractor 186:25
contrary 100:17
contributing 229:17 234:15,22
 261:4 262:21 263:3 268:10
contributions 71:1 228:19
control 39:23 77:20 84:18,19
 142:3 168:6 213:11,20 214:20
 222:7
controlled 171:3
controls 158:6
controversial 164:7
conversation 87:23,25 253:2
conversations 106:21 110:14
 290:13
conveyed 64:22,23
conviction 131:20
convictions 131:23 132:1
 134:12
cool 13:11,13 122:18
cooperation 49:16
coordinate 81:9
coordinating 81:3
coordinator 11:19,23 12:12
 45:15 60:2 161:21 219:23 287:5
coordinators 24:25 44:21 61:14,
 22 123:4,11 161:10 288:1
copied 50:25
copy 49:25 50:1 53:20
Corps 164:16
Corpus 12:24
correct 31:12 33:14 59:21 73:18
 95:25 101:3 108:23 115:25 120:2
 196:22 231:7 249:25 250:4
 265:22,25 266:8 274:24 290:12
corrective 138:16 140:10
correctly 46:2 81:10
correlate 234:17,23
correlated 272:16
correspond 166:11
cost 120:6 192:9 205:1,2
costs 84:14 188:22 245:19
Council 26:20
counsel 290:15
count 222:21
counter 204:22
counterparts 108:2
counting 261:24 269:9

countries 168:14 184:24
country 14:1 41:22 82:8 109:5
 111:2 157:4 160:13
County 237:13,14 290:3,5
couple 6:14 24:5 30:13 37:9
 46:24 52:1 55:25 56:2,12,18
 58:21 64:4 65:18 73:24 76:17
 87:14 88:21 99:17,22 103:4 107:3
 109:16 122:17 125:18 133:2
 134:25 142:15,16,17 143:18
 151:4 187:7 195:3 197:2 212:16
 239:19 269:14 280:20 286:9
 287:13
courses 249:5
court 6:20 118:12,14 122:7
 230:21,24 231:1 290:4,22
courtesy 115:18
cover 82:25 84:9,10 85:24
 117:20 169:24
coverage 83:20 84:5 104:22
 110:6 112:1,6,11 113:24 118:21
 119:19
covered 26:8 39:7 101:25 136:5
covering 111:14
covers 166:13 169:23
COVID 94:11
Cowan 3:2
CPAPS 138:20
CPR 144:17,19 148:13 149:14
 282:10
cracks 182:13 214:21
craft 11:14 164:8 165:3 167:22
 171:8 176:24 182:14 192:24
 194:13 204:16 206:5,18 209:2
 210:18 222:5
cranking 141:16
crazy 192:13
create 52:6 86:24 90:22 231:8
 240:11,12
created 105:15 255:19
creates 192:7
creating 192:20
credential 69:15 70:1,3,16

129:24 131:18 132:16 134:18,23
 136:14 137:2,3 138:13 139:9,10,
 12,13 141:3,11,13,15 147:20,22,
 23 151:11 152:17 153:20 239:6
 249:20 250:22 253:12,13 254:3
 281:12,19,21
credential's 281:24
credentialed 132:5 141:8
 151:15 152:9 153:20
credentialing 12:8 15:5 124:24
 125:9,10,17,20 127:7,8,12,14
 139:23 158:17 159:1,5 237:20
 254:22,24 270:20
credentials 4:17 8:16 125:3
 126:22,25 127:10,17 137:19
 139:17 143:2,7,8 250:2 255:18
 256:5 281:9
Credit 10:23
crew 69:16,17 151:12 154:11
 155:18 172:4,7 178:8,12,24 184:6
 228:17,20,25 229:8,12 231:21
 239:7,8 243:24,25 248:3,12
 253:21 270:20 281:17
crewmen 66:10
criminal 29:5
crit 201:10
criteria 56:22 110:1 235:7 273:12
critical 170:21 172:22 173:6
 174:10,24 175:4 176:13 200:9,12,
 16 201:11,13 232:10
cross 53:4 246:14
crossing 226:18
crystal 37:1
curiosity 269:5
curious 41:1 94:20 190:15
 274:17
current 18:22 29:25 53:1 54:11
 136:3 155:25 254:10,21
customer 108:19
cut 68:8 142:24
CVC 167:5 176:23 253:23 271:5,
 14,22 272:2
CVC-1 199:7
CVC3 7:25 13:20 48:13 123:15

cybersecurity 19:23
cycle 42:4
cyclical 217:7
cylinder 171:6 201:8,9,11,14

D

daily 183:13,14
damage 228:6 263:11 273:15
 276:24
damaged 187:8 201:5
Dame 164:13
Dameron 2:14 10:10,13 34:5
 36:8 40:25 41:1 51:2 65:21,23,24
 67:1 274:13,15,16 275:7
damp 196:6 202:21
dan 98:13
dangerous 134:20 254:5
Dardis 211:16
data 4:19 56:20 58:4,12 62:19
 63:24 87:1 109:19 117:25 128:23
 165:4 172:12,22 173:13,17,19,23,
 25 174:2 175:3,6,7,12,14,17
 176:1,2,5,6,9,12 179:13,22 186:9
 194:19 195:21 202:25 203:2,18,
 19 209:12,15 210:7 212:9 216:15
 217:4,9,10,11,12,13,18,21 218:19
 219:5,9 220:3,20,25 221:13
 224:10 226:24 227:11 228:4,5,12,
 13,24 229:4,5,8,15 231:19,25
 232:19 233:1,3,21,22 234:14
 235:18 237:2 256:14 261:1
 265:15 268:7,22 273:9 278:12,14,
 16,23 279:1,19,22,24,25 280:3,5
database 62:6 184:12,13,17
 185:4 265:14 278:18 279:8
databases 134:13
date 38:2 46:23 47:6 53:3 132:9
 197:17 198:6,21 204:11 206:21
 209:11
dates 204:3,4,8,10,22
Daughtry 2:5 9:6 70:5 140:9
 182:22 200:7,8 218:5 232:2,5,13
Dave 9:18
David 2:10 272:8,9 278:22 289:8

davit-launched 170:11
davit-launcher 193:2
day 4:21 7:19 25:5 26:10,12
88:11 89:14 99:16 114:20 122:14
144:7 281:5 285:17,18 286:6
289:2,5 290:19
days 20:8 114:24 115:1 136:13
140:2,20 141:6 144:1,2,11,13,14
147:12,14,18,23 148:9,15,19,20
149:3 151:20,21,22 153:16 185:1
204:7 232:24 275:2,3,16 283:14
DC 47:25 122:14 125:16 164:21
de 260:8
dead 120:20
deadline 20:10 53:3 78:2
deal 46:12 133:6 135:17 178:12
189:18 193:10 198:7,13 211:17
288:13
dealing 199:23
deals 126:14
death 28:15 263:12
deaths 234:18,24 235:5 267:2
decade 42:11 266:24
decades 42:10 245:4 266:25
decal 59:24 60:5
decide 74:24 75:17 227:7 238:2
243:21 252:19 271:14
decided 73:14 263:4 267:10
decimal 168:18
decision 59:4 60:4 77:5 78:3
161:23 164:15 224:9 242:3
244:19
decisions 59:8 60:20 153:23
218:7
deck 147:14 148:19 194:11
Deckhand 281:9
deckhands 151:17,24 155:19
decks 104:9
Declare 4:6
declared 7:12 84:9
decline 243:9
decoupled 267:15
decrease 197:24 243:9
deemed 135:3 136:21 147:6
167:17 281:15
deep 62:11 92:23 265:6
deeper 265:7
defer 23:8 33:3
deferred 23:2
deficiencies 58:6,10 63:25
190:24 191:3,5 194:19
deficiency 191:1 199:2,11
defined 256:16
definition 276:15
definitions 257:24
deflating 212:22
degradation 174:21
degree 164:10,12
delay 32:4 50:11 60:11 62:9
65:19 181:8,10,16
delayed 39:21
delaying 32:13,15
delays 50:6 60:8
delegated 61:11
delegation 61:10,12
delete 199:22
deliberations 29:13
delighted 80:5
deliver 20:10 78:3
delivered 40:13
demonstrated 168:3
demonstrations 152:2
denial 134:15
denied 128:25 134:22 135:1,2
Department 160:22
depend 132:16
depending 86:10 93:23 110:17
163:11 195:23 271:23 275:18,19,
20
depends 202:6
depicted 257:13
deploy 192:25 193:9 216:9
deployability 192:23
deployable 194:13
deploying 213:17
deployment 193:5
deploys 216:24
deprivation 8:18 71:19 260:5
derail 55:25
describe 72:8 103:14 282:15
description 69:1,9,19 70:7,17,
22 71:12,17
design 164:14 165:14,17 169:4
193:16,18 213:9
designated 10:1
designation 97:15
designed 85:7 116:6
designs 193:13
desire 52:5
desired 25:5
desk 122:24 199:18 213:14
226:18
desktop 141:15
destruction 134:19
detail 147:25
detailed 63:8 168:8 279:12,21
detailing 136:11
details 196:11 225:10
detectors 82:19
deter 250:3,5
determination 241:21
determine 17:19 136:6 237:1
determined 30:2 266:20
determines 134:3
detrimental 195:10
detune 100:15,18
develop 71:13 108:3 259:22

268:17
developed 160:23 240:3
developing 16:22 271:6
development 68:23 119:1 240:1
device 92:4,11 93:5,16 95:4,7
98:11 102:14 119:25 120:21
121:11
devices 90:19 93:8,25 94:23
99:2 101:14 119:3,23 120:7,23
121:1
DFO 2:17 5:18 10:1 46:17 48:14,
19,21 49:3,24 50:23
dial 85:17 87:16
dialogue 16:14 61:19
Diana 12:16
difference 24:24 106:18 121:2
140:3 155:8 195:23 202:10
209:16,18 211:10 218:9 222:22
232:8 249:19 253:19 280:1
differences 236:17
differential 82:20 83:8
differentiate 147:17
difficult 26:4 83:23 90:7 94:19
99:13 233:23
difficulty 197:4
dig 176:2 196:10
digest 77:3 78:1,12 114:17
231:19
digesting 278:11
digital 85:25 87:12,15 113:14
114:3 178:20
digitally 114:1
digitizing 100:5
digits 168:18
direction 18:6 23:18 41:4,13
86:8 232:14 242:9,10 255:12,14,
16 269:25 275:17 276:7
directions 137:24 288:8
directives 246:3
directly 24:9 45:18 81:7 89:2
107:17 109:3 137:25 166:11
226:7,15
director 10:23 29:8 127:2
directory 165:13
disagreement 162:19
disaster 85:13
disconnect 41:15
discontinued 88:14,19
discretion 59:3,9
discuss 15:13 56:2 64:25 124:23
125:10,17,22 126:1,5,9,15 262:10
270:22 287:15
discussed 32:18 270:12
discusses 63:16
discussing 15:1 228:15
discussion 34:20 51:13 65:14,
18 72:12 154:5 163:9 208:25
238:1 247:25 251:3,6 264:9
discussions 20:23 24:1 29:13
disjointed 35:24
disqualify 29:12
disrupt 6:6
distance 88:14
distance-water 160:6
distinct 29:20,24
distinction 194:19
distinguish 256:18
distress 88:7 90:22
distribute 197:11,12
district 11:17,19,22,25 12:11,14
60:1 61:14,22 161:21 164:17
219:24 243:14 287:23
dive 177:2 232:1 265:6
diverse 12:22
diversity 21:7 22:14,17
division 11:13 20:20 43:11
165:16 257:15
doc 131:19
docket 24:14
dockside 56:9 62:17 64:8 65:1
doctor 138:3,5,10,22
document 24:7 45:10 62:1 69:3,
18 235:24 236:8 249:20 250:6,11,
12,14,15 251:16
documentation 254:11
documentations 235:13 262:15
documented 89:8,10 149:24
150:5 234:5
documents 108:6 228:8 237:10
238:24 239:9 250:2
Dod 90:17
dollar 277:10 278:5
domestic 173:11 207:5,6 210:24
Don 286:20,21
door 6:14 39:4 41:25 42:16
door's 288:18
dot 53:4 171:7 172:15
dot's 86:18
DOT-TYPE 133:24
double-check 214:18 256:16
double-checking 134:11
downtown 164:21
draft 45:2
drawn 183:23
drill 196:3 201:5,22 202:3,8 203:1
248:12 249:3 284:2,3,6,17
drilling 202:13,16
drills 174:16 196:2 202:20
drive 85:6 94:6 186:22
driven 212:13
driveway 164:20
driving 210:6 212:10 218:7
drug 8:17 71:10 132:4,6,10 152:8
154:18,24 155:3,5 156:9 228:18
229:13 231:21 259:17
drug-testing 156:7
drugs 134:20
dry 196:4
DSC 85:14,24 97:12 101:24
103:22 113:8

due 132:15 187:17**dugout** 21:12 22:2**DUI** 135:1**Dunmurry** 197:22**duplicated** 139:22**duties** 27:9,11**duty** 8:17 71:6,8 259:12,14

Dzugan 2:3 7:4 10:4 31:18 33:7,
22 34:11,15,16,20 36:7 38:8 40:1,
21 42:18 51:3,12 55:3,6,13 65:22
67:3 72:3,4,5,7,16,18 73:7 77:21
91:23 94:12 96:10,13,24 97:4
102:9 111:21 119:21 120:17
121:8 122:10 124:7,19 130:15,21,
23 135:5 140:8 142:8 143:10,13,
15 153:9 154:2 156:13 157:8
158:10 159:12 162:7,17,19,22
163:15 190:10 191:15 194:15
196:12 200:6 201:17 204:1
205:21,23 208:2 209:6 211:4
212:15 218:4 219:13,16 220:7,16
222:13,16 224:23 225:2,5,12,18
232:4,17 234:1 235:10 236:13,16
237:6 239:11 243:20 244:7
247:24 248:2 249:17 251:8,18
252:8,14,23 253:3 256:6,23
257:2,6 258:15 259:2,19 260:1,8,
13 264:6,11,14 267:22 269:2
271:20 272:5 274:12,14 276:11
278:8 279:3 280:7,10 282:13,20,
22,24 283:2,5,12,20 284:11,20,
23,25 285:7,13,16,25 286:20
287:16,19,21 288:8,24 289:2,4,8

E

ear 280:25**earlier** 9:23 18:9 23:15 32:19
39:20 63:16 79:11 207:15 236:12
254:21**early** 5:11 174:19 175:5 176:14**ears** 80:16**easier** 97:25 99:1 183:22 206:11**easily** 245:24**East** 86:16 88:9 180:25**easy** 90:8 98:11 146:10,24 191:2
197:1 244:22 265:20**eat** 13:1,2**echo** 122:25 153:11**economic** 19:5,10,12 40:16
217:18 240:7**economists** 19:11**Ecuador** 160:13**edits** 54:15**EDT** 68:2 162:25 289:12**educate** 18:5**education** 10:5 102:11 281:23**effect** 29:20,24 141:9**effective** 47:4 49:6 101:15
199:16**efficient** 105:2**efficiently** 245:18**effort** 246:14,25 268:11**efforts** 43:12 79:2

Eichelberger 3:3 12:6,7 15:4
124:25 125:1,4,6,8 129:9 130:18,
22,25 133:19,22,25 135:6,9,11,13
137:9 140:14 141:1 142:13
143:12,14,16 144:8 145:4,6,8,13,
20,25 146:5,7,16,19,23 147:1
148:3,5 153:13 154:17,22 155:2,
10,13,15 156:1,4 157:7,12
158:12,23 162:4

eight-and-a-half-by-11 139:13**EI** 89:20**elect** 4:11 30:15,18 33:18**elected** 30:24 31:9 33:13 35:25**election** 31:1,10,11,13,16,23
32:5,9,17,19 33:4,16 35:3,15,20,
23 36:3,17,20 42:4 47:20**elections** 34:24**electronic** 82:2**electronically** 127:23**electronics** 6:7 82:5 112:19,20**eliminate** 254:16,17**elimination** 71:10 259:17**Elon** 116:16**else's** 219:6**email** 24:10,15 62:1 67:17 103:15
109:4 169:17 184:19,21 190:7
219:7 272:13 276:18**emails** 24:8**emergency** 6:16 7:15 90:22
109:22 120:25 121:12 123:11
197:2 221:23**emphasized** 58:15 65:3**employee** 29:9,25 290:15**employees** 28:22**employer** 29:9,18,19,20 281:15**employer's** 29:21**empty** 58:11**enable** 14:2**encoding** 107:14**encompass** 36:4**encompasses** 126:12**encountering** 61:15**encourage** 16:17,18 20:15 61:19
90:11 244:14**encouraged** 63:11 64:10**end** 33:4,16,19,25 34:7 206:24
247:18 252:17 256:8 266:14
273:11**end-users** 196:25**ended** 37:3**endorse** 120:14**endorsed** 149:25**endorsement** 126:8 132:25
135:14,25 143:20,23 144:1
147:19 149:22 155:18**endorsements** 126:22 128:3
139:17 150:17,18 152:19,22**endurance** 228:17 229:9,12
231:21**enforce** 166:22**enforcement** 82:13 265:14**ENG-4** 15:8 165:16 176:23
184:20 200:21**engage** 61:21 278:15**engaged** 233:17

engagement 4:7 6:24 16:12
engages 16:19
engaging 254:18
engine 18:25 150:9 182:9
engineer 150:10,20,24,25
 159:20 160:18 161:1 165:22
engineering 164:9,10,14
 165:14,17 213:8
engineers 150:13,14 164:1,17
English 157:8
enjoys 14:8
enrolled 168:5
ensure 16:20 17:4 18:9 20:23
 22:20 141:21
ensures 151:16,24
entail 8:8
entered 62:5,7
entering 47:13
entire 8:10 106:9 109:4 180:5
 184:8 185:3 187:16 188:1 206:18
 213:10 219:9 225:9 267:1 271:11
entity 125:22
envelope 39:24
environment 83:23 236:21
EPIRBS 89:5
equally 280:3
equator 110:21 111:15
equipment 64:13,19 65:11 81:8
 83:10 85:7,19 86:21 94:16 104:25
 109:25 165:3,11,19,22 166:24
 167:1,2 168:1,12,16,21,23 169:1,
 10,23 171:8,14 176:17 177:14
 181:14 182:14 188:8 189:4,13
 192:12 193:11,18,24 202:8,16
 204:17 206:6 209:11 210:4,18
 214:13,16 215:22,24 216:4,5
 223:15 282:2
equipment's 86:21
equivalencies 61:10 62:2
equivalency 61:18 223:4,8
 224:14
equivalent 179:23 223:12,20
 224:15,19
Eric 2:8 9:20 92:7 94:12,13 95:12
 112:16 114:8 119:21,22 201:19
 204:2,3 260:13,14 265:10
error 231:13
errors 140:20
escort 110:12
Espina-young 12:18
essence 40:23 43:21,23 62:17,
 22 65:5 75:7,14
essentially 8:8,10,14 55:18
 56:24 68:22 131:25 136:4 138:1
 139:5 147:8 148:18 166:13,19
 168:15 171:24 172:15 182:9
 186:12 187:2,22 189:21,23 191:7
 215:4 221:25 236:3 238:20 252:4
 267:16
establish 87:21,22
established 90:18
establishes 98:17
ethics 28:20,23 29:23
Europe 97:7 221:19,21,23
European 97:14 168:13 206:12
 221:8
evaluate 17:12 20:14 78:5 110:9
 272:1
evaluated 29:23 109:25 223:19
evaluating 64:11 278:12 280:4
evaluation 132:11,13,15 134:8
 136:8 137:5,17 138:1 139:6
evaluations 127:9 134:5
evaluators 135:20 142:25
 145:15
evasion 28:8,10
evening 77:7
events 61:23 91:4
eventually 128:1 132:17 241:8
everybody's 68:5 162:5
everyone's 44:19 164:7
everything's 98:19 134:3 139:7
 193:17 198:4
exact 51:16 84:15 120:7 169:10,
 25 220:9 254:25
exam 56:22 60:17 62:7 127:18
 131:8 134:6 136:25 137:15
 144:21,23 145:1,3 148:13 149:14
 152:6 155:12 157:14
examination 57:14 58:7 64:1
 136:23 157:19
examinations 56:10 64:9 65:1
 128:2 157:10
examined 57:2 65:7,9 152:3
examiner 10:8 62:16 63:18
examiners 57:15,18 58:1 59:7
 64:7,24 123:5
examining 63:17
examples 72:10 134:18
exams 60:22 62:17 128:4 144:19
 160:12
Excel 37:25 43:22 232:6
excellent 251:6
exception 88:20
exceptional 225:25
exceptions 170:25
excess 202:8,15
Exchange 84:3 260:20 265:1,9
exciting 92:4
exclusively 82:24
excuse 5:15 70:5 84:10 100:11
 220:11 230:25 231:10 251:20
 259:22
execute 27:9,11
exempt 223:2
exemption 29:15 160:25 161:3,
 5,6 179:10,15 185:13 189:2,3,4,8
 209:19 223:2
exemptions 129:15,16 153:6
 161:23 176:25 188:19
exercise 59:3
exist 25:11 44:12 90:10 161:18
existing 49:4 129:24 217:1,6
 254:25

exits 6:17
expand 216:19 233:14 244:9
expect 47:3,19 140:22
expecting 156:23,24
experience 151:17 242:2
experiences 18:3 22:19 245:16
expert 11:14 15:9 87:5 88:21,23
 107:21 226:7
expertise 15:11 165:23 185:10
 283:15
experts 15:19,23 78:8 80:1 123:1
 226:2
expiration 197:17 204:3,4,7,10,
 11,21 206:21 209:11
expire 47:7 171:10,14
expired 35:20
expires 182:15 205:13 209:13,20
expiring 198:21 206:4,16 210:5
explain 48:4 74:16 144:7 199:7
 220:3
explained 206:22
explore 69:11 239:3
exploring 44:4
exposure 232:24
extend 19:25 20:4 84:2,5
extended 171:21 184:3 208:6
extending 172:21
extension 181:20 196:21
extensions 196:19
extinguisher 56:8 61:4 281:25
extinguisher's 58:25
extinguishers 56:23 57:2,18,24
 58:9,23 59:19
extra 25:7 26:7 37:4 64:4 155:11
 163:8 187:20 209:4
extremely 6:4 80:3 235:13
eye 282:6

F

FACA 4:10 25:13,15,24 29:25
 52:8,10 276:3
face 22:10,13
facilitate 238:20
facilitates 90:14
facilities 170:18 174:3,4 175:7
 177:2,13 181:25 190:23 191:9
 197:20,21 198:1 203:11
facility 66:8 145:10 171:8 179:5
 180:2,7,8,10,16,22,23,24 181:2,3,
 20 184:1,12,14 200:25 201:7
 214:25 215:20
fact 19:22 20:11 89:21 241:19
factor 229:17 234:15,16,22
 262:21 263:3 268:10
factoring 65:12
factors 39:22 232:22 244:13
 261:5 266:3
factory 9:16 21:14 96:16
failed 66:21,22
failures 176:13 202:23
fair 38:9,11
fairly 100:9 109:2
faithfully 27:8,10
fall 32:5,18,23 33:12,16 34:2
 35:22 36:3,18,20 38:4 45:5 46:11
 92:1 101:7 161:6 212:22 213:19
 223:10 269:17
falls 5:17 167:5
familiar 17:7 172:14 221:17
 236:19
familiarization 77:9
family 29:7
famous 164:7
fantastic 162:3
FAO 20:20
FAQS 184:8
farm 108:22
Faro 89:20

farther 118:20
fascinating 21:6
fashion 140:25
fast 13:4 119:6
fastest 184:21 185:6,17
fatalities 42:20 234:5
fatigue 8:18 71:11,18 228:18
 229:9 231:21 259:18 260:4
fatigue-limiting 71:14 259:23
fault 201:2
FC 96:17
FCC 79:23 81:4 92:8,18,21 93:5,
 10 94:10,17 96:17 97:1,2 116:8
FDA 198:16,17
feasibility 44:4 69:21 70:8 72:21
 152:13 251:25 252:2 253:7
 255:23 275:20
features 91:19 139:22
federal 10:1 16:2,13 27:25 28:2
 40:4 63:5,6 68:17,19 183:10
 233:18 256:19,22
federally 233:15
fee 132:11,13,14,15,17
feed 20:2,3 44:21 160:1
feedback 46:15 220:12
feel 26:14 33:7 56:1 64:6 133:12
 185:20 236:7 260:17,18
feeling 62:16
feels 262:9
fees 132:12
feet 45:23 99:23 106:7,11 192:1,2
fell 212:17 234:10
felon 254:4
felt 35:10 262:23 263:4
Fernandina 1:3,8 13:24
ferries 211:1
fever 199:16
fewer 270:1
field 184:23 243:13

figure 28:16 78:14 91:13 107:23
 231:7,16 242:3 260:17 267:7
figured 80:13 104:17 106:24
 261:13
file 141:24
filed 47:5,9,12,15,16 58:6 63:25
fill 107:18 133:9 184:16
filled 74:18 131:18 138:3,5
fills 184:12
filter 158:17
filtered 159:9 272:20 279:1
final 4:21 38:1 65:4 106:25
 144:25 184:10 271:18 276:8
 285:17,18
finalized 51:9
finally 126:20 128:5 150:7 167:9
 176:16 183:6 184:19
financial 29:10,17
financially 290:17
find 8:1 86:8 90:8 92:22 94:5
 96:16 98:23 102:2 103:18 114:13
 119:8 176:2,8 181:20 194:23
 219:8 272:11 278:15
finding 86:7 90:5 100:12 104:5
 119:9 173:1 175:4 187:25
findings 89:21
fine 177:5 195:17 199:12 257:6
finger 130:20
Fingerprints 128:22
finish 140:2 158:24 246:14
fire 11:13 56:8,22 57:2,18,23
 58:8,23,25 59:19 61:4 165:15,18
 215:23 216:4 281:25 282:2
fiscal 36:23
fish 13:2 17:21 21:14 45:20 60:11
 161:8 256:1
fished 233:19
fisheries 21:8 22:18 233:18
 256:22
fisherman 10:3,17 129:6
fisherman's 14:3
fishermen 9:21 21:18,20,22
 106:23 119:24 129:3 140:17
 191:23 192:16 245:24
fishers 112:18
fishery 10:14 21:10,11 22:3,5
 116:14
fishing 1:1 4:2 5:5,16,22 10:9,18,
 24 11:23 12:12 13:6,8 14:14
 16:12 17:24 18:10,11 20:23,25
 21:15 22:1,11,15,23 27:13,16
 41:3,8 42:21 45:17 56:9 58:6
 59:18 61:3 64:1,8,23 69:5,12,17,
 22,23 70:10,11,20 71:1,2,5,7,20
 88:16 92:17 95:14 97:9 126:11
 147:11 150:23 151:9 154:7,23
 155:6 160:1 170:7 179:25 182:19
 188:12 232:20,23 233:6,16,17
 234:21 235:25 239:4,8 245:20
 251:11 253:8,9 254:18,24 255:6,
 15,24 256:1 259:12,13 260:5
 263:17,21 264:1,3,4,6,13,17,19
 268:23 279:9 281:11 282:19
 290:9
fishnet 93:3,11,16 98:7 99:2,3,8
FISHSAC 16:24 17:22 18:18
 75:11 195:1
fit 163:11 193:17,21 194:4,13
fitness 8:17 71:5,8,9 228:20,25
 259:6,12,14,16 270:20
five-day 114:19
five-month 181:7,9
fix 82:18 102:5 111:23
fixed 276:9
fixing 82:4
FL 1:3,8
flashlight 171:10
flavors 238:11
fleet 66:21 106:15 154:8 159:18
 160:1,3,5,6,7,12,21 209:14
 232:21 233:10,11,15,16,17,24
fleet's 160:7
fleets 160:4
flights 5:9
flip 93:19 196:16 225:16
flipped 104:21,23
float 189:6
floating 91:5
floats 218:14
floor 51:13 125:1 164:3 227:6
Florida 9:7,10 10:8 12:14 13:24
 106:2 163:24 164:11
flow 7:3
flows 126:2
fly 188:20 197:14
foam 179:20 189:6
focus 22:7,8 99:6 228:10 269:14,
 16 270:2
focused 20:22 172:22 173:24
 265:18
focusing 248:2 270:19
fog 82:19
fold 195:13
folded 195:9
folders 219:9
folks 5:9 8:5,24 14:24 22:2 24:10
 25:16 47:24 79:3 242:2 286:9,12
 288:4
follow 95:11 154:3 180:11 187:2
 190:12 211:3 213:11,20 214:20
 222:7 254:25 255:3 257:8 269:3
follow-up 158:10 168:6 222:1
food 20:20,21 21:2 205:21
fool 110:12
Force 81:14
forecast 114:19
forecasts 114:22 248:18
forego 19:19
foregoing 290:7,11
foreign-speaking 157:25
foreigners 154:10
forget 100:1 154:11
forgot 100:22
form 4:10 25:13 57:14 65:6
 107:18 131:20 133:3,17,18 134:2
 138:2,4,8 232:6 251:5 255:6,15

265:21 281:7,22
form's 74:18
formal 244:3 274:11 276:15
format 272:18
forms 73:19
formulate 278:19
fortunate 79:1,18
forty 140:17
forward 15:23 16:24 17:20 20:17
 23:1,10,12 24:1,2 33:20 44:14
 47:15 67:13 72:2 75:15 76:4
 78:14 235:9 241:24 242:5 244:20,
 22 246:8 247:12 251:7 254:11,23
 255:12 269:25 271:15 272:1
forwarded 67:17
found 60:2 65:9 120:23 172:23
 173:6 174:7,20 186:2 194:20,21
 195:14,20 201:7 248:7 260:19
 286:13
four-personal 212:7
fourth 73:4
frame 26:15 275:16 276:9
frames 26:16
France 197:22
Francisco 85:1
Frank 2:11 9:14 118:5,17 284:16
Frank's 284:9
freaking 94:4
Fred 249:11
free 86:20 120:3 185:20 203:19
 230:24
freely 28:5,6
frequencies 87:14,16,19 88:7,19
 92:20 99:1
frequency 99:4 200:13
frequent 64:5
frequently 109:2 110:9 176:15
 215:22,24
fresh 198:5
freshwater 195:20

frickin' 13:11
Friday 80:7
friend 146:1
friendly 52:14
fringe 97:17
front 6:17 24:11 94:4 100:23
 132:12,15,18 133:14 136:18
 139:16,19 145:3 146:6,15 156:25
 220:13 227:4 267:25 269:12
FRP 182:10
FTP 166:12
fulfill 27:21,22
full 44:17 54:19 59:10 61:2
 123:15 124:10 162:8 177:17
 228:4 233:1,3,9,10 274:7 279:6
fully 30:2 49:24 78:1 136:17
 142:9 265:24 268:14
function 260:21
functioning 166:18
functions 128:12 167:10
funding 142:10,24
funnel 226:15
funniest 108:18
funny 108:15 117:21
fut 224:6
future 15:24 17:17 19:6 23:8,25
 46:7 190:1 224:6 229:6 242:25
 243:1,17 270:1
FY 143:4
FYS 142:16

G

GA 290:21
Gallagher 3:5 11:8,9 15:1 79:17,
 18 80:13,18 91:15,21 92:9,15,23
 93:2 94:18,21 95:18 96:7,19
 97:16,22 98:9 99:21 101:4,19
 102:16 105:15,18 106:11,13,24
 110:10 111:25 113:18,22 114:15
 115:25 116:5,12 117:13,15,19
 118:22 120:2,5,11 121:1,13
 122:13 159:13 165:21

Galveston 99:14
gap 183:1 247:9
garnered 16:4
Gary 2:22 11:17
gas 170:13 178:19 179:2 187:20
gathered 172:12
gave 83:6,15 166:19 210:2
gear 91:16 92:17 95:14 218:16
geared 149:15
geez 192:18
general 4:7 6:24 29:10 170:3
 241:13 256:22
generally 197:9,14 278:25
generation 111:22
gentleman 219:13
gentlemen 43:1
George 2:22 11:16,17
Georgia 290:2,5
GEOSTAR 111:21
geostationary 111:15
Gerald 2:3
Germany 97:20
Gestures 289:7
gesturing 94:2
get all 87:4 216:2 231:1
giant 192:6
girl 60:11 137:10
give 6:5 15:18 23:24,25 25:1,4
 43:5 45:10 47:5 54:2 59:20 61:9,
 25 67:25 72:10 77:17 81:7 91:17
 98:4 102:25 114:24 125:19
 139:24 151:2 152:18,22 153:21
 157:22 163:21 167:20 175:21
 177:21 178:24 180:20 184:25
 188:23 217:10 224:13 240:21
 247:17 256:9 275:16 276:5,8
 277:25 283:5
giving 183:23 252:3
glacial 246:1
Glad 164:6

globe 110:18
glue 198:4
glue's 178:23
GMDSS 81:13 117:11
goal 15:18 17:15 23:15 247:18
goals 22:22
God 28:11,12
Godsend 119:13
gold 220:15
good 8:7 9:6,9,22 11:4,8,11,16, 21 12:3,6,10,13,15 13:22 14:23 20:22 31:4 35:1 36:25 49:23,24 55:9 61:19 67:21 80:16 89:5,8 94:22 124:16,18 125:16 134:4 137:11 142:13 143:4 157:12 159:4 169:8 175:1 178:5 192:11 201:17 217:25 224:22 225:14 227:17 238:4
goodness 176:10
Google 18:24
Googling 7:25
Gotcha 241:16
government 10:13 28:22 29:25 98:2 103:6 108:14
governments 21:1
GPS 82:20 83:8 86:2 101:24 104:13
grabbing 80:15
grand 229:20 230:13 231:9
grasp 233:9
great 13:17 14:15 23:22 40:10 52:20 62:4 68:5 80:10 91:2 95:2 101:8 119:19 122:12,15 144:12, 14 181:24 185:9 199:20 239:16 247:11 251:3 254:8 257:2 284:11 287:18
greater 126:17 149:17,20 150:1, 21 151:3
Greg 2:7 9:2 34:22 190:11 194:15 203:3 204:1
grew 156:15
grey 60:15

grieving 267:9
Groleau 3:4 11:11,12 15:8 67:5 163:18,25 164:4,8 165:1 182:23 186:5,16,19,24 187:13 188:21,24 189:1 190:19,21 192:22 193:7 194:23 196:22 197:18 198:3,10, 12,17 199:6,21 200:2,14 202:6 203:9 204:13,16,19 205:4,10,12, 19,22,24 207:1,4,9,15,18,20,23 208:12,24 209:23,25 210:2 211:11,12,14,20,22 213:2 215:21 216:12 217:7,17,25 218:18 219:19,21 220:15 221:1 223:1,6, 24 224:25 225:4,6 226:12
gross 69:6,13,24 70:12 71:7 126:10 130:1 143:22 147:10 151:9 159:19 160:4,9 229:2,3 236:1 239:5 250:10,16,20 253:9 256:2 259:14
ground 99:23
grounds 236:19
group 20:12 92:12,19 166:9 183:12,13 191:21 195:1 252:24 272:7 285:8
groups 214:2
growling 124:16
GRT 130:6 148:8,9,25 149:3,12, 24 150:5,11 151:23
Guam 86:17 88:1,20
guaranteeing 169:12
Guard 5:15 9:25 10:8 11:2,7,13, 22,25 12:8,11,23 13:3 14:23 15:20 17:7,12,18 18:3,23 19:1,3, 5,7,11,22,24 20:3,17 22:11 25:16, 22 34:2 37:15 38:16,22 39:1,9,11, 14,25 40:13 41:2 42:7 51:11 57:22 58:1,3 61:9,13,21 63:11,18, 21 64:6,25 66:3 69:11,14 70:21, 24 71:21 74:23 75:4,9,12,15,24, 25 79:22 80:21 81:11 82:1 83:7 87:13,18 89:9 90:11 93:21 95:7, 12 103:5,8 106:15 107:21 108:19 111:1 116:8 117:6 119:1 122:19 123:2,7,19 125:12,22 128:7,16,21 133:7 134:21 140:11 142:4 144:20 145:11,15 146:13 152:1,6 164:19 165:5 166:3 167:17,21 168:7,10,14 169:2 171:22 172:15, 17 173:20,24 179:14 180:1,3 181:12 182:25 183:4 188:9

190:21 193:19 196:23 204:7 214:6,7 216:17 219:24 220:5 221:6,12,15,25 222:10 223:9 224:3 226:20 227:19 237:21 240:20 241:5,19,20,23 242:13,22 243:12,18 244:17 245:3 246:4 248:6,14,23 249:4 255:5 260:7,19 264:25 274:17 275:9 279:25 281:7,14,15 284:5 286:2,9,22,25 288:9

Guard's 29:23 86:4 117:23 119:9 166:2 233:7 276:2

Guard/transport 221:7

guess 50:22 62:19 147:3,6 151:14 212:1 229:22 242:17 262:13 268:23 278:6

guidance 25:20 43:19,20 52:10 56:20 57:1 58:20 62:18 63:12,14 64:10 65:13 66:1 71:13 259:22

guide 44:2,3,20,24 45:1,21 107:14

guide's 46:2

guidelines 63:3 64:14,15,18 66:5,6

Gulf 85:9 157:3

guy 60:10 66:23,24 88:11 99:10, 19 104:15 108:12 137:10 156:17

guy's 102:24

guys 49:18 50:21 52:21 55:1 90:4 91:10 103:7,10 104:8 106:5,20 110:8 116:3 158:17,24 167:5 175:18 185:14 195:4 214:2 221:16 225:10 227:24 228:15 231:16,19 236:11,25 247:17 252:19,22 272:13 276:16 282:8

H

half 42:23 117:22 136:16 154:8 228:2 273:9

HAMPTON 1:6

hand 21:13 27:3 102:25 125:25 237:7 286:16

hands 32:8 249:5

handy 114:13

hang 115:19

- hanger** 58:24
- happen** 39:1 74:17 92:18 119:14
164:21 165:22 198:14 199:1
200:23 242:7 243:1 274:5
- happened** 8:2 38:10 110:19
172:16 190:3,5 191:7 214:22
216:7 243:5 269:10 274:8
- happening** 26:14 168:12 174:17
181:21 189:11 209:5 210:14,20
212:6,8,9 214:5 216:14 243:17
- happy** 46:6 47:25 50:17 73:7
163:19 185:18 203:21 226:23
232:18
- harassment** 134:22
- hard** 26:1 92:10 96:20 98:10
103:2 108:24 114:12 190:9 202:5
222:22 233:6 283:20
- harder** 203:21
- hat** 78:20 218:2
- havoc** 93:23
- Hawaii** 84:10 86:17 237:13
- he'll** 15:1,6 132:25
- head** 5:18 108:13 256:17
- heading** 80:6
- Headquarter** 39:11
- headquarters** 5:15 9:25 11:13
12:9 17:12,18 39:25 125:13
142:16 227:20 241:23 271:22,24
- heads** 6:5,14
- health** 12:5 71:9 259:15
- hear** 25:8 34:8 73:8 75:25 99:9
105:8 118:12 122:8 125:4 275:10
276:16 286:7
- heard** 12:24 52:4 116:13,14
139:10 144:24 175:14 203:25
249:7
- hearing** 35:8 55:6 62:13 138:16
260:2,9 280:11,24 285:1
- heart** 13:8 176:11
- hearts** 121:15
- heavy** 93:24 213:16
- held** 31:15 36:17,20 145:24
147:20,22 290:8
- helpful** 16:10 18:20 19:6 49:20
75:25 86:7 114:19 272:11 279:13
280:4 283:5
- helps** 145:19 255:13
- herd** 80:2
- hesitate** 13:15 15:24 286:17
- Hewlett** 2:13 10:7,12 76:14
106:12 113:5,12 122:1,3,9 144:24
145:5,12,17,21 146:1,6,8,12,17,
20,24 154:4,5,18,23 155:3,11,14
156:12 162:21 164:24 209:8,24
210:1 211:3,5,8,12,19,21 230:11,
17 253:17,25 277:9,20 285:14,22
288:23 289:3
- hey** 74:11 98:3 99:2,7 100:12
102:24 112:12 114:19 175:18,19
181:16 189:9 224:16 242:22
243:14,15 247:7
- HFMF** 87:13
- hide** 265:19
- high** 19:9 94:1 178:22 239:20
257:21
- higher** 111:22 253:24
- highlight** 14:25 22:9,10,12
- highlighted** 21:16
- hill** 104:20
- hinder** 247:15
- hire** 133:4,7
- historical** 248:4
- history** 218:11 222:24
- hit** 14:2 19:8 86:4 102:1 110:23
111:4 114:6 119:19 228:7
- hold** 31:10 32:22 61:10 69:13,17
80:14 126:13,19,23 128:16 129:3
130:2,8 131:2 134:17 135:14
138:13 139:2 150:11 151:10
154:20 155:17 158:22 230:18
239:5,8 243:25 250:21 256:6
- holding** 32:9 141:10 147:19
148:16 149:22 199:10
- holds** 136:19 141:17
- hole** 112:8 120:20
- home** 95:5 181:2
- Homer** 10:2
- homework** 76:25 275:19
- homicide** 134:19
- honest** 192:10
- honestly** 77:14 211:25 221:9
- hook** 101:23
- hooking** 106:25
- hope** 14:7,19 102:23 215:21,23
- hopeful** 269:21,25
- hoping** 229:5
- Hoppe** 2:23 12:13
- horizon** 18:14 47:19
- horsepower** 150:22
- hosted** 20:19
- hosting** 12:17
- hot** 6:10 158:20
- hotel** 6:13
- Houma** 180:24
- hour** 71:15 162:9,13,15 259:25
272:6 280:13
- hours** 88:11 89:14 140:21 144:9
158:22 163:24 259:24 281:2,4
- house** 80:20 89:12 93:22 104:3
164:22
- Houston** 99:14 197:13
- hover** 114:11
- how's** 13:10
- Howland** 9:9 26:23,25 27:2,5,7,
10,15,19,22,24 28:2,6,9,12,14
97:5,6,21 98:8 99:19 196:13,14,
23 198:2,8,11,16 199:5,20 200:1,
5 202:24 203:23 208:4,22
- huge** 50:20 249:13 266:18
- hull** 182:10,12
- human** 90:6 102:22
- humidity** 178:18,22 187:18
- humongous** 266:15
- hundred** 99:23 160:24
- hundreds** 203:10

hung 106:23**hungry** 162:5**hurricane** 85:11**hurricane's** 84:20**hybrid** 113:22**hyperlinks** 183:21**hypothermia** 21:23 218:13
219:3

I

I's 53:4**ice** 83:25 113:24**icom** 113:9**idea** 86:12 108:20,25 119:5
139:24 150:15 152:23 153:21
218:2 288:19**ideas** 185:9**identification** 70:2,3 253:13**identify** 21:17 44:9**IF-APPROVED** 190:22**iffy** 111:12**IFISH6** 20:18 21:5 22:7**II** 130:4 270:16,23**III** 1:13**illegal** 93:4**illustrated** 245:2**ILO** 21:3**imagine** 5:20,23 116:12**IMD** 78:7**immediately** 49:7 53:7,9 110:24**immersion** 62:15,23 63:7,10,17,
19,22 64:2,6,8,11 66:4 67:6 68:11
165:10 169:7 185:15 202:19,23
218:25 222:5**IMO** 63:6 80:7,25 119:5 165:20
171:24 173:13 178:7**impact** 52:12 54:18 104:7 106:5
245:20**impacting** 105:10**impacts** 70:19 71:19 260:5**implement** 40:6 43:17 71:5 85:2
87:6 240:22 241:8,10 245:2
259:11**implementation** 42:12 69:22
70:9 152:14 253:7 255:24**implemented** 127:16 140:23
246:10**implementing** 97:9 242:12**important** 56:1 128:18 130:11
141:21 142:5 144:3 147:24
160:14 192:25 193:12 222:7
232:15**impression** 210:3**improve** 18:8 21:10 22:21 40:8
50:20 51:9 245:18**improvement** 240:24**in-depth** 234:25**in-water** 218:13**inadvertently** 40:18**inception** 267:5**incident** 4:19 78:22 120:18
226:24 227:11 242:24 260:20
263:11 267:8 277:22 281:6**Incidentally** 133:16**incidents** 59:5 232:22 260:16,24
261:11,12,22 265:3 281:8**include** 63:8 71:8 92:20 126:11
147:11 252:24 259:15**included** 58:10 210:24,25 262:16**includes** 19:9 264:7**including** 43:12 69:6 79:23
179:25 236:1**incomplete** 142:2**incorp** 181:11**incorporate** 270:8**incorporated** 23:6 181:11
239:24**incorporation** 56:25**incorrect** 273:21**incorrectly** 200:19 201:1 202:22**increase** 111:25**increased** 171:1,4**incredible** 278:11**incredibly** 233:23**increment** 177:10**indicating** 262:25**indiscernible** 9:19 10:15 13:20
33:10 36:24 39:24 42:17,25 55:5
57:6 61:3 63:22 67:7,22 72:5
74:13 76:5,14 79:6 83:12 84:16
85:9 91:21 95:9,10,12,24 96:12,
15 101:18 106:6,12 109:14 110:3
113:4,14 118:7,8,9,10,11 119:20
121:19,22 122:1 146:11 155:19
170:5 173:21,22 174:23 183:3,5
184:11,15 186:11,15,23 189:7,22
196:3,15 198:15 207:19,20 208:9
209:2 212:23 215:4 216:21 219:5,
22 220:5 221:3 222:15,16 232:2
236:20,23 237:17,18 253:17
259:6,8 262:11 264:21 266:14
268:24 269:1 273:11,17 277:20
278:1 279:1,21 280:15 283:7,9,14
285:25 286:3,4 287:9,11,19 289:1**individual** 92:11 149:22 150:3
252:10 271:9,16 275:13**individually** 267:20,21 271:19**indoors** 171:2**industrial** 22:4**industry** 9:4 10:18,20 16:19 18:2
20:24,25 22:4,11,15 23:17 29:21
40:9 45:17 47:24 63:12 70:20
71:2,20 75:21 123:20 240:24
242:1 245:19,20 255:15 260:6
284:8**inept** 62:14**inflatable** 170:4 179:18 182:4
210:14**inflate** 201:9,12**inflated** 195:12**inflating** 203:5**inflation** 62:15 63:10 64:3,9
170:13 187:21**influence** 25:19 26:6 228:14**inform** 242:2

- information** 8:3 20:3 37:22
38:25 44:25 62:5 74:24 76:1
77:16 78:5 79:3 88:22 103:3,21
104:1 108:10,12 113:11 114:16
115:12 122:16,22 123:19 128:21
132:21 133:12 134:10 136:9,14
138:9 139:19 141:18 158:7,8
159:3 161:11,12,22 176:22
180:18 184:15 219:11,12 220:21
222:12 247:5 260:20 265:1,13,20
272:14 278:14,20 279:13
- informational** 159:13 225:5
- informative** 122:10
- informed** 153:23
- infrequently** 212:1,2
- initial** 48:13 137:15 171:12
- initiative** 246:9,23 247:11 248:23
- initiatives** 43:19 44:10
- injuries** 234:6,18 235:4 273:2,4,6
276:21
- injury** 273:19
- inland** 82:9
- Inmarsat** 109:24 111:8 118:21
- Inmarsat's** 111:12 116:24
- INN** 1:6
- input** 18:17 22:17 23:16 30:25
44:22 46:8,14 55:16 75:10
- insert** 53:5
- inserted** 44:2,25 93:12 113:10
- inside** 103:21,22 178:15,18,19
209:11 244:17
- insight** 38:13 39:5
- insightful** 16:10
- insights** 18:1
- inspect** 64:7 180:15 188:12
- inspected** 66:8 130:4,5 171:6,7
174:12 180:9 211:6 261:22
263:22
- inspecting** 57:23 58:23
- inspection** 42:12 59:3,14,15,18
64:24 66:2 169:21 177:18 181:13
192:9 194:1,3,10 243:6
- inspections** 56:9 63:9,23 64:6
181:10
- inspector** 11:10 168:25 199:8
200:2
- inspectors** 64:23 66:3 180:15
184:23 261:25 262:3
- installations** 166:25
- installing** 111:24
- instance** 84:20 85:10 149:19
- instances** 89:18
- instantly** 101:11 114:4
- Institute** 12:4
- instructions** 173:2
- instructor** 82:17 283:24 284:17
- insurance** 10:19 267:9
- intelligently** 165:25
- intend** 55:25
- intended** 95:3
- intent** 32:22 33:15 45:22,24 46:9
53:18 117:2 200:3 256:20 271:1
- intention** 181:16
- interest** 28:20 29:10,17
- interested** 23:12 184:4 270:7
290:17
- interesting** 113:7 114:9 182:3,7
- interests** 29:6
- interface** 109:8
- interject** 61:7 265:10
- intermediate** 246:19
- internal** 18:2
- international** 20:19 21:1,3 86:23
110:13 130:7 165:20 167:9,10
171:25 190:17,22
- internationally** 81:22 89:3,17
116:20
- interpret** 249:14
- interpretation** 240:5,10,13
- interpreting** 253:23
- interrupt** 54:4 124:14
- interval** 70:19 171:1,20 173:10
181:9 194:17 207:11 208:23,25
- intervals** 4:18 163:16 172:21
178:4 212:13
- introduce** 8:22,25 35:10 56:19
227:2
- Introduction** 4:9 8:19
- intuitive** 204:23
- INV** 63:24 72:13 77:15 78:20 79:2
227:3 265:11,14 268:13 278:11,
15
- investigated** 220:2
- investigating** 242:20 262:23
263:4
- investigation** 17:8,9 72:13 75:3
200:21 217:1 242:21 243:12
260:20 261:4 265:23 274:4,7,9
279:15
- investigation-wise** 263:8
- investigations** 11:6 15:14 17:6,
19 23:2 41:7,9,12 75:5 77:23
78:13 166:4,6 210:10 212:14
227:19 238:16 241:18 262:4,17
265:12 266:2 269:10,19 279:18
- investigator** 268:2
- investigators** 262:5 265:8
- investments** 111:17
- involve** 152:1
- involved** 9:3 21:10 56:7 81:6
90:13 153:22 175:8 185:8 216:18
220:24 257:19 274:10
- involves** 19:20
- ios** 120:21
- IPA** 179:19
- iphone** 119:3
- Iridium** 109:24 110:4,6,11 111:9
- Iridium's** 116:23
- irregular** 174:20 195:8
- Ish** 211:21
- ISO** 166:7
- issuance** 132:14
- issue** 20:14 29:14 52:25 53:10

60:5 66:11 127:10,17 139:8
141:18 143:20 185:13 191:1,2
192:7 193:5,6 196:8 199:2,10,17
201:11,13 263:5

issued 69:14 128:15 137:3,21
138:25 139:1,18 169:22 281:12

issues 31:22 47:3 51:23 60:15
61:16 79:21 185:14 188:11
192:20 193:22 240:14 262:18,20
269:1 270:2,6 280:16

issuing 59:24 132:17

item 7:25 37:25 68:6 158:20
209:21

items 71:25 197:2

IV 30:23 35:2

IVAS 210:25

J

jacket 21:20

jackets 102:4 222:5

Jacksonville 9:10,11 12:17
23:23 26:20 164:17 197:13
203:13

Jacqi 218:19

James 2:6

January 20:18

Jax 164:19

je 260:8

Jerry 7:4 10:4 33:23 34:14 40:1,
21 42:18 91:24 120:17 124:1
142:8 153:10 156:13 162:6
191:16 200:7 243:22 249:16
257:10 279:5 285:24 286:8
287:25

Jim 135:5,6 137:6 239:11,12,17

jives 46:2

job 83:11,15 162:3 191:2 219:20

Joe 24:19 65:15

John 2:18 3:1 12:10 219:23

joint 222:2

jointly 221:6

Jon 14:12 27:1 28:25 31:7 48:25

61:7 67:5 73:8 109:16 164:4,11
170:9 183:19 210:22

Jon's 195:1

Jonathan 5:14 7:7 80:17 109:1,
16 115:4 117:21 251:8 287:25
288:12

Jose 154:14

July 46:24 47:6 53:3

jumbled 171:23

jump 253:16 259:5

jumped 82:24

jumps 249:13

June 46:23

Juneau 11:23 12:24

K

Katie 3:6 12:1 272:8 280:18,21
282:13

keeping 218:11 266:21 267:11

Kelly 2:6 7:14 76:5,6,7 135:6,7,
10,12 137:6 239:12,18 241:1,16
242:6

key 125:11,18 127:21 258:15

keys 145:19 288:20

kick 5:7

kidding 226:18

kids 13:2

killed 257:2

kin 267:9

kind 12:17 14:25 18:4 20:7 38:24
43:23 56:14 57:10 58:13 73:3
79:21 80:13,19 81:1,15 82:1
83:14 86:12 87:20 91:15 94:1
98:6 100:16,21 102:2 104:7
106:17 107:6 109:11 111:18
112:9 113:22 117:17,20 119:18
120:19 123:17,21 126:1,18 127:5
128:10 137:23 140:5 142:9,11
146:21 152:22 153:23 163:1
164:13 166:17 167:10,19 171:23
175:12 176:2,19,23 178:13,17,23,
25 179:3 182:11,20 186:8 190:14
195:15 196:7 197:16 199:24
200:12 202:25 203:3 212:17,18,

22 213:13,18 214:2 215:7 218:21
222:23 228:20 229:21 232:7
233:14 235:18 240:4,10,13,15
241:1 248:8 251:19 254:6 255:1
256:13 269:1,24 270:12 276:16
277:3 281:13 282:16 287:14,23

kinda 237:22

kindness 121:14

kit 197:3

knew 82:6 153:18 222:23

Knifong 3:6 12:1 280:18,20,21
282:18,21,23 283:3 284:2

knowing 49:19 60:21 94:19

knowledge 15:11 44:19 69:6
74:16 152:5 172:9 190:4 236:2,9,
17 237:11,18 244:16

knowledgeable 80:3

Kodiak 88:1,2,3,20

Kris 10:16 34:18 35:13 116:7
129:7 185:23 190:13 253:18

Kristian 2:12

L

La 2:24 11:4,5 15:13 166:5 227:3,
12,17 230:4,7,12,15 231:6,15
232:3,12 233:5 234:12,14 235:2,
11,20,22 236:15,24 237:25
242:17 245:21 247:2,4 249:16,21,
25 250:19 252:5,9,18 253:4,22
255:17 259:4,9,21 260:3,10,25
261:8,10,14,17 262:3,6,13
263:15,19 264:4,12,15 265:5,25
266:9 268:5 270:10 273:2,5,8,10,
20 276:14,20 277:8,13,16,19,23
278:3,7

lab 221:12

labor 21:4 43:11 160:22 184:13

laboratories 168:11 214:1,3

labs 222:11

lack 216:12,13

lacking 272:12

lakes 144:12,15 181:24 187:24

land 112:6

language 50:16 55:1 67:18,21
73:25 156:22 157:5,18 245:24

lapse 52:18

laptop 225:7

large 16:4,9 22:4 48:6 235:13
269:23 272:2

larger 61:16 202:14 257:13

lasting 174:9 246:13,15,25

late 78:20 123:24

latest 37:22 120:22

latitude 219:2

launch 111:18 202:5

launching 170:12

law 19:17 42:13,14 82:13 165:20
166:19 167:11 175:16 239:24
240:3,5,16,19 241:3,7 242:8,9,15
243:15 244:23 265:13 284:12,14

laws 49:5 217:6 239:21 240:2,11,
12,22 241:12,13 242:12

lead 281:16

leadership 33:20 39:2,11 81:2

leads 79:15

leak 66:25

leaks 187:24

learn 178:11

leave 226:12 244:14 245:9,15
255:2 260:13 282:13 283:19,21
286:6 288:14

led 82:10 94:16 104:8 172:18
174:9,20 202:22

LEDERMAN 145:7

left 6:17 54:9 68:6 88:11 206:17
208:21 285:14,15,19

leg 239:3

legacy 268:19,22

legal 30:7 93:8 95:14 244:25

Legislate 245:5

legislation 95:22 239:15 247:14

legislative 69:12 151:8 239:4,14
240:21 242:14 243:15 245:5
247:7 252:3 266:24 275:24

legislator 241:6

lengthy 276:16

lenient 207:10

lenses 138:16 140:10

lets 34:1

letter 129:17 134:15 136:11
161:3 180:21 189:11,14,22 190:8
223:7,14,15,16,21,22 224:1

letterhead 190:8

letters 179:10 189:24 203:11

level 19:9 86:23 93:15 156:18
179:23 223:12 233:1,3 239:20
245:6 252:9 253:24

levels 39:16 89:2

liaised 109:1

liaison 10:14

license 148:22 150:20 154:15
161:8 237:16 255:6,8 281:14

licensed 261:23 263:24 264:6

licenses 161:18 241:14

licensing 40:5 160:16 248:6,7

lieu 144:23

Lieutenant 11:17

life 4:18 8:16 9:7 10:17 15:9
21:19 66:15 70:19 89:15 90:13
95:4 100:13 102:4 137:16 163:16,
20 169:24 170:4,11,19 171:20,21,
25 172:10 174:8 179:18,19 180:1,
12 182:3,8 184:4 185:15 186:2,4
188:15 194:7,20 197:2,6,7 200:10
212:7 216:18,24 218:9,14 222:5,
18,20 284:3

life-saving 167:7

lifeboats 182:9

lifesaver 101:10

lifesaving 11:12 64:13 89:9
165:15,18,24 166:6 167:2,13
181:14 185:20 214:16 215:22
216:4

Lifesling2 222:21

Lifesling3 222:19 223:4

lifetime 137:6,12 282:12 284:7

light 102:6 104:14,18,21 105:3,
13,14

lighthouses 82:4,18

lights 63:3 104:8 105:3 225:12
227:23

limbo 121:24

limit 109:6 245:12

limited 39:9 77:25 173:23 175:12
176:12 247:5,21

line-throwing 194:6

lined 25:3

lines 86:9,11 246:23 272:20

link 37:16,17 92:5 109:4 180:4
276:19 277:25

linked 89:2

links 38:3

list 19:1 91:10,19,22 94:22 117:8
129:21 186:14,17,18

listed 72:19 139:18 143:24 153:6
155:4 262:19

listen 21:6 49:20 87:13,25

listening 25:25 88:10

listing 212:19 265:2

literally 21:13 194:11 201:1
213:22 215:2 254:13

live 53:15 87:25

lived 164:19 248:22

lives 17:17 42:22 89:13,25 101:9
119:12 281:17

living 198:11

LLC 1:23

load 85:2 170:12

loads 218:9

local 12:16 13:15 61:21 69:6
85:17 107:12 110:25 180:14
194:1,10 236:1,9,17 237:10,18

located 100:12

Locater 4:15 80:11

locating 91:1

location 14:7 44:9 84:25 105:7
272:19

- locations** 14:1 83:4 131:12
locator 92:17
locked 288:15,18
logged 281:6
logging 71:16 259:25 281:3
logistically 74:3
London 10:25 80:7
Londrie 2:7 9:2 34:14,22 194:16
long 5:9 30:7 36:2 51:6 84:23
86:22 88:14 106:19 109:6 115:14
137:12 158:11 171:23 183:23
186:7 195:11 198:19 248:20
269:17 273:12 274:11,19 275:12
277:3
long-range 83:1 86:15 88:17
long-term 246:12
Long/short 4:10 25:13
longer 104:5 132:9 174:7,9 186:1
198:21 204:23 212:2 246:15,24
275:24
looked 38:19 44:25 45:13 58:3,4,
12 143:4 145:17 192:10,11
195:12 210:15 223:17 248:6
loopholes 101:6
lose 104:11
losing 177:25
loss 17:17 228:5,6 235:5 263:12
276:24,25
lost 42:22,23 110:4,5 120:18
277:2
lot 5:24,25 17:22 39:20 43:11
60:18 75:2 77:23,24 82:25 83:20
85:20,24 86:2 87:10 89:3,25
90:13 97:17,19 99:1 100:20
101:20 103:2,10,20 104:8 105:6
106:20 109:14 110:11 118:25
119:2,15,20 142:23 159:2,3 162:1
165:6 166:5 168:9 169:14 174:2,
3,21,22 176:11,21 178:9 182:17
184:8 187:19 189:23 192:1,17
196:1 197:20 198:13 200:24
201:4,10 202:19,20,22 203:14
205:18,24 206:10,11,12 207:13,
14 218:20 219:10 221:16 232:10
235:10 243:5 246:25 258:4,18
263:6 265:7,15,16 268:11 269:7,
13 270:16,24 271:7 273:10 274:5
275:19,25 279:2,11,12,14,19,22
284:7
lots 89:10 96:21 109:8
Louisiana 12:11 189:19
love 13:1,2 40:13 42:8 184:13
loved 39:19
low 80:13 94:1 256:11 257:12
258:8
lower 88:6 257:12
lowering 199:16
LSA 166:11 167:12 180:19
LT 11:16
lucky 164:11
lumped 238:25 252:19
lunch 54:25 55:9,12 67:15 79:13
124:2,4,9,13 162:24 164:6 201:18
225:13
-
- M**
-
- made** 17:10 18:16 40:10 48:15
52:11 60:4,21 82:16 94:7 112:7
115:22 139:20 164:6 183:20
194:25 195:5 197:22 218:1 224:9
239:2
magic 110:23 268:13
mail 127:24
main 80:24 118:9 135:18 149:20
195:7,13 202:14
Maine 10:16
maintain 63:2 69:4 70:1,14
235:24 253:11 256:3
maintained 64:13 65:12 82:21
maintains 107:8
maintenance 62:15 63:8 66:2,17
181:13
major 62:12 141:12 170:19
187:7,10,13,14,15 196:8 201:12
278:4,6
major-major 188:3
majority 15:3 159:25 209:14
240:2 241:14 242:11
make 12:20 14:18 15:22 16:21
17:2 18:5 20:16 22:13 23:17
24:20 34:4,5 40:18,22 45:25 49:8,
9,13 50:1,4,17 51:14 52:14 53:2,
14,16 59:8 61:2,17,25 69:2,10,20
70:8,18,20,23 71:4,14,20 72:8
74:2 78:17 81:21 83:22 84:15
92:18 93:18 97:24 98:10,11 99:1
102:17 105:2 108:7 109:21,22
114:5 115:5 116:2 121:5 128:8
134:16 136:1,4 138:12 139:3
142:5 145:23 146:17 153:23
155:8 161:11 169:6,7,9 170:19
178:19 180:16 182:12 191:22,24
194:12 202:13 206:3 208:16,17
212:25 217:12,19,21 224:3
227:15 235:23 238:12,16 240:23
241:21 244:11,24 245:1,6 246:12,
24 251:22,24 252:2 253:6 254:4,
13,19 255:22 256:13 259:10,23
260:6 263:8 275:23 281:21,23
285:1 288:23
makes 19:17 90:12,13 97:25
99:13 146:24 161:22 200:5
209:17 260:22
making 59:4 89:13 111:16
121:15 164:15 176:3 198:3
224:15 242:7 249:12 266:6
man 80:7 156:16
manage 9:16 166:2 185:3
management 11:10 71:11 80:19
164:12 229:24 230:2,4 259:17
manager 166:7
managers 165:7
mandate 218:21,23
mandated 39:13 40:14
mandatory 26:20 59:18 216:25
maneuvering 150:4
manning 126:16 160:15,25
161:5
manufacture 206:11 215:2
manufactured 169:25 200:18
manufacturer 59:1 66:12 91:19,
24 97:6 98:1,2 105:12,25 169:6,9,
19 180:13 200:20 201:2 212:18
214:13 223:23,25 224:5,12,14,18
manufacturer's 63:2 64:14 66:1

manufacturers 64:16 105:3
177:14 196:24 197:3,9 206:3

manufactures 168:11

manufacturing 9:12 197:19

map 84:12

maps 112:9

Marathon 9:7 10:7

March 37:23 38:6 139:12

Marina 84:3

marine 4:19 9:7,12 10:5,22,23
11:18 17:7 59:2 63:12 64:23
105:23 112:19 206:21 226:24
227:11 234:16,20 235:1,2,3,7
242:19 243:10 262:6 263:1,11
265:13 273:19,24,25 274:4
276:24 277:22 281:8

mariner 4:17 8:15 12:8 15:5 69:4
70:16 71:5 84:6 124:23 125:3,9,
10,17,23,24 126:8 127:11 128:2,
6,18,22 131:7,11,13,16,18,23
132:5,23 134:11 136:1,6,13,19
137:3 138:2,10,19 139:8,25
144:20 147:20 148:22 149:9,19
151:10,11 152:9,16 159:5 235:24
237:9 239:6,9 253:12 254:3 256:5
259:12

mariner's 69:14,18 70:1 136:10
139:17,19 250:11,12,14,15,21

mariners 69:23 70:10 107:12
126:3,12,19,23,25 127:22 128:3,
16 129:18,22,24 130:13 132:12
133:4 134:17 136:24 137:22
139:2 141:4,8,21 143:7 145:14
147:4,18 149:18 151:15 152:15,
20 153:5,15,19 194:14 253:8
255:25 281:11

mariners' 222:8

maritime 21:1 93:16 125:15
127:4,5,16,19 128:1,24 131:3
134:5 135:17 141:5 158:25
165:20 166:8 167:10 260:19
264:25

Mark 2:17 5:19 9:23

marker 93:11,13,17 114:1

markers 93:4 95:14 97:9 98:7
99:2,3

market 94:25

markings 62:25

marriage 290:15

Mary 236:20 270:15,23

Maryland 78:23

mass 91:4

mast 104:25 105:6

master 137:11 147:13,18,19,21,
24 148:16,18,21,24 149:5,9,20,
23,25 150:1,22 151:23 159:20
160:17 255:25

master's 164:12

master/mate 150:18

master/operator 70:11

masters 153:1 160:2 281:14

masts 104:10

match 177:20 261:19,21 280:2

matched 209:2,3

matching 120:12

mate 147:19,24 148:16,21 150:2,
3,6,13,23 159:20 160:17 161:1

mater 163:23

Matera 249:11

materials 166:24 167:2 168:1
234:3,9

math 230:10

Matt 7:5 10:2 30:16,21 32:16 40:2
45:7 47:23 49:1 54:21 67:16
73:12 94:12 95:11 102:9,10 129:1
144:6 190:10,12 194:16 201:19
215:9 222:17 233:20 269:4
284:20

matter 29:12,19 174:11 221:11

matters 29:5

Matthew 2:4

Maui 237:13,14

MC 244:2

means 20:15 30:5 40:8 78:11
84:10 124:12 167:21 168:20
188:1 189:2 195:6 199:15 200:19,
21 213:7 222:11,12 224:14
239:25 278:21

measured 258:5,6,7,9

measurements 248:18 257:22

measures 59:4 69:16 151:11
239:7 243:24

measuring 179:2

meat 127:6

med 139:4 221:17

medical 134:2 137:17,20,21,25
138:4,15,25 139:6 228:23 229:19
231:22 276:22

medically 138:13,24

meet 31:24 47:2,14 53:2 56:16
148:9,23 149:7,8 151:18 152:22
167:25 178:6 213:11 226:17
287:17

meeting 1:2 4:3 5:7 6:6,20 7:1
8:7 14:15 15:4,17 16:2 20:13
24:20,23,25 25:18 26:14 27:14
29:1 30:8 31:1,2,3,12,14 32:20,
22,24,25 33:4,6,13,16,18,19,21,
25 34:2,3 35:17 36:1 43:9 44:16
45:4,8 46:11 47:17 48:23 52:8
55:25 65:16,19 68:24 78:16 79:1,
4 229:25 245:21 256:8 269:6,16
270:13,22 271:1 278:13,24,25
286:13 288:2,5 289:11 290:8,16,
18

meetings 8:2 14:20 15:12 23:3
24:18,25 26:2,21,22 43:14 47:14
48:20 81:3 95:20 97:19 98:1
228:3 269:23 271:2 283:14,16

meets 36:4 169:3 213:8,10 233:4
235:6 273:12

member 2:5,6,7,8,9,10,11,12,13,
14,15 13:3 26:19 27:12,15 29:7,
21 33:3 284:19

member's 29:17,18

members 2:2 4:9 6:25 7:19 8:11,
19,21 11:2 24:14 25:23 26:17
29:16 30:1 69:16 76:9 81:13 96:5
118:2 151:12 156:2 159:21
162:10 201:24 215:13,16 217:23
230:19 239:7 243:25 250:25
258:25 264:8,23 272:25 274:22
277:11,17 281:17 285:11,20
288:6 290:16

members' 37:20

memorized 240:17
memory 277:4
memos 271:18
men 120:18
mental 28:7,9
mention 13:23 25:14,16 26:9
47:18 158:15 160:19 208:1 245:3
mentioned 9:23 18:9 21:2 23:15
24:7 39:6 40:15 41:2 46:10 51:19
64:3 79:11 123:13 137:17 151:6
157:14 159:24,25 185:24 188:9
200:9 212:19 218:6 258:16 261:5
263:2 268:9 275:8 281:2 283:22
merchant 8:15 12:7 15:5 69:14,
18 70:1,15 124:23 125:9,24
131:17 139:8 151:11 152:16
237:9 239:6,9 250:11,12,13,15,21
253:12 254:3 256:5
merged 125:14
messages 102:7
messy 99:15
met 203:3 254:15
meter 179:1
meters 94:4
method 88:18 237:3
metrics 89:8
Mexico 157:4
Miami 12:14 197:11 203:13
mic 8:24 118:13 219:17,19
280:19 282:14
Michael 2:9,15 96:24 212:15
237:7 247:25 249:17 283:17
287:2
Micro 104:16
mics 6:10 220:12
midday 285:3
middle 37:24 82:8 124:14
Mike 2:25 10:21,24 11:24 33:11
53:19 55:10 59:13 76:21 96:25
100:25 117:4 124:24 133:16
140:15 146:4 187:6 190:11
191:15,16 204:2 209:7 212:16
225:15 234:2 237:8 243:22
283:22 287:3,21 288:11
Mikes 243:20
mile 102:24 258:21
miles 69:24 70:12 84:11 90:12
104:19,22,23 112:24 113:5,6
209:15 253:10 256:2,10,12,21,23
257:17 258:16,22
mind 180:23 216:20 232:20
279:24
mine 146:1 268:13 288:20,21
miniature 182:8
minimize 97:12 245:19
minimum 89:24 117:16 169:3
221:4
mining 265:15
minor 274:6
minute 110:18
minutes 6:21 7:17 56:13 67:10,
25 71:23 79:14 110:20 123:25
124:10,11 225:13 285:9 287:17
mirror 97:23 124:23
mirrors 178:18
misconstrue 94:8
mishaps 220:2
misinterpret 72:14
MISLE 62:6 161:11 191:4 265:13
279:8 280:10
missed 44:23
missing 24:17 136:10,12
misunderstandings 17:3
misunderstood 167:18
mitigate 269:1
mix 23:1 265:17,21,22 266:4
MMC 69:15 126:1,3,5,10 127:12
128:19 129:3,5,14,20 130:12,13
132:7 134:7 137:20,22 138:6
142:4,14 143:23 147:3,19 149:22,
25 150:6,12,17 151:13 153:3
154:20 158:6 249:22
MMC's 141:2
MMCS 141:22
MMSI 85:17
mod 173:9
model 112:1
modified 54:14
modify 175:2
modifying 173:9
moment 45:3 114:18
money 121:15 142:22 209:4
277:9
monitoring 96:21 131:10
month 93:6 112:23 117:22 120:4
208:5,6 229:15
months 38:18 43:9 83:25 108:12
109:17 120:19 132:8 170:5,8,10
171:1,4,13 172:2 179:4,9 198:25
204:8 205:8,11,12,14 206:16
207:8 208:7,18,21
MORAN 82:6
morning 5:11 7:22 9:6,9,22 11:4,
8,11,16,21 12:3,6,10,13,15 16:5
57:6 95:6 109:22 289:6
motion 34:4,5,8,10,11,16 35:5,8
36:9 50:17 51:12,14 163:6 286:7,
8 288:23,25 289:4
motioners 34:12
MOU 220:4
mounting 58:8
mounts 58:10
mouse 114:11
mouth 120:15
mouthful 28:17 30:3
move 16:23 23:9 24:2 28:20
30:12 44:14 50:22 54:23 72:1
74:1,22 75:15 76:3 112:3 122:11
124:20,21 136:15 149:10 235:9
241:24 242:5 244:19,22 246:1,8
247:12 251:7 255:12 259:3
269:25 272:1 275:21
moved 98:10 112:5
movement 248:11
moves 20:17 79:10 135:4 254:23
moving 15:22 17:20 18:6 23:18
33:20 37:7 47:14 62:13 69:8

242:9 259:20 260:2 269:2 275:25
276:7

MRA 221:17

MSC 193:12

MSIB 104:7 105:9

multi-year 69:21 70:9 152:14
153:14,19 251:25 253:7 255:23

multiple 39:16 76:9 96:5 156:2
159:21 162:10 201:24 203:4
213:2,6 215:13,16 217:23 230:19
238:9 272:25 274:22 277:11,17
285:11,20 288:6

murder 254:6

museum 14:4

Musk 116:16,25

Myers 24:19 56:11 65:16

myriad 260:24

N

NAP 170:16

narrative 261:3 268:8

narrow 194:18

national 1:1 4:2 5:5 12:4 14:14
22:23 27:12,15 67:18 75:10 81:9
82:17 125:15 127:4,5,16,19
128:1,23 131:3 134:4 135:17
141:5 158:25 257:15 290:9

nationally 81:22 89:2,18

nature 100:14 102:23 274:6

nautical 84:11 253:10 257:17
258:21

nav 86:19 108:1

naval 9:19 75:22 193:15

NAVDAT 86:24,25

naveral 107:11

navigating 100:17

navigation 82:3,17 93:21,23
103:5,8,9 107:5 109:10 122:19
150:4

NAVTEX 81:12 86:15 87:10

Navy 257:17

Navy's 118:22

near-coastal 69:25 70:13

nearby 13:6

nearest 87:17

neat 12:21 113:23

necessarily 18:2 133:6 178:10
191:18 240:1,11 241:18 244:17,
23 254:17 265:16

needed 19:21 54:16 135:24
161:9 162:8 170:21 217:19 241:5

Neeland 2:17 5:19,21 9:23 14:12
25:17 27:1,6,8,12,17,21,23,25
28:4,7,11,13,16,25 32:3,8,12
33:2,15 36:16,24 39:8 40:12 42:1
48:25 49:23 51:15 52:25 61:7
75:2 77:21,22 95:21,25 96:3
231:12 232:18 233:13 239:16,19
241:12,17 244:9 246:6 247:3
251:2 254:8 255:9 256:15 257:1,5
265:10 266:1,8 269:11 271:21
275:3 278:10 279:23 280:9

negatives 248:8

negotiated 98:19

Neil 196:12

nervous 100:21

net 20:20 94:16 97:9 179:20
189:6

network 98:17,22

newest 270:12

newly 193:14

news 5:24

nexus 220:4

NFPA 56:25 57:1,9,10 58:19,22

nice 84:17 85:14 86:7 89:22
90:25 110:22

niche 9:13

Nick 9:9 27:5 97:4,6 196:14

night 43:7

NIOSH 2:20 279:22,24

NIOSH's 279:20

no-go 123:21

NOAA 81:10 257:13,14,15

nobody's 230:22

noise 102:8

noisy 98:13 104:14 105:14

nominate 34:14

nominees 34:9,21

non-federal 29:17,18

non-u.s. 154:10 155:16

noncompliant 187:3

noon 124:9

north 85:1 111:11 118:20,21

Northeast 191:25

Northwest 13:1

NOS 257:15

note 7:13 29:14 42:19 46:5 55:17
65:24 77:22

noted 56:23 67:2,17 74:12,22
77:4

notes 24:5 56:14 57:19 58:22
62:20 63:23 64:24 115:13 123:14
199:8

nother 245:6

notice 16:3 40:10 68:19 78:20
107:12 162:2

noticed 196:15 220:16 276:12

notification 90:23

notifications 90:24

noting 40:9

Notre 164:13

Nova 21:20

NTSB 119:23 166:4 274:10

number 14:23,24 16:10 17:4
18:13 19:4 20:25 22:2 23:6 39:9,
21 72:15 84:7 126:5,9 130:4
144:4 151:21 161:16 168:22
228:18,23 229:10 231:14 232:22,
23 233:6,7 234:20 235:14 261:18,
22 266:1 269:11,23 272:2 273:23
274:7

numbered 29:4 252:7

numbers 200:24 233:23 234:19
261:2 262:25 263:6

numerous 118:1
nutshell 139:23
NVIC 63:4,5,20 64:9,25 65:24

O

object 32:9
objection 32:4,7 33:2,8 55:4,6
objections 36:11,17 289:9
objective 52:5 156:22,24 226:18,19
objects 67:4
obligation 28:4,6
obtain 69:25 70:13 126:25 151:8 152:16 153:15 253:11 256:3
obtaining 69:11 239:3
obvious 144:17 248:19 256:13
occasionally 199:4
Occupational 12:4
occur 213:21
occurred 173:6 174:11 236:18 262:7
occurring 242:25
occurs 197:6
ocean 144:12,14 164:1,9,20 257:15
ocean's 91:2
OCMI 59:5,6,9,16,21 180:14 189:8
OCMIS 63:11 174:2 189:20
odd 282:10
OEMS 177:15 180:17
offender 254:5
offenses 254:15
offer 34:12 157:13,16 158:2
offering 59:15
offers 63:7 79:22 107:16
offhand 138:19
office 5:18 9:24 11:5,9 12:7,16 13:15 15:5 72:13 73:22 74:18 77:15 79:23 80:18,24 81:6,24 88:23 90:11 103:17 107:8,17 108:23 109:3,10,12 111:3 115:4,5 125:8 127:3,4,11 135:14 162:2 165:14 194:1,10 227:6,18 266:14 271:23,24
officer 9:15 10:1 11:18 29:8 59:2 143:25 155:17 242:20 262:23 263:4
officers 36:19,21
offices 78:9 107:10 108:3 109:8 123:18 167:5 243:13 272:2
official 91:10 108:6 189:24 190:6 203:1,24 241:19,22
officially 73:19 115:24
offshore 112:24 113:5 209:15
oftentimes 25:1 42:9,15 160:13 177:4,9
older 174:22 176:15
Omar 2:24 11:5 15:13 72:11 73:3 78:7,21 227:3,6,17 230:1 231:12 233:13 244:9 264:14 265:22 272:7 273:17 274:14 279:4 280:11
Omar's 74:2
OMZI 283:23
onboard 71:6 129:18 259:13
one's 96:14 100:12 176:8 217:10 221:5 222:22
one-year 204:23
ongoing 44:7 269:10
online 25:10 145:1 146:3,9 224:2
open 8:23 16:13 19:20 20:12 34:4 40:16 53:3 65:17,20 81:14 200:21 201:6,22 206:14 266:2,17,21 267:2,11,15 268:18 286:1
open- 137:14
open-comment 240:6
open-ended 244:14 245:10 247:16 255:2
opened 195:11 211:6
opening 4:8 14:10,11 40:15 48:19 51:19 200:17 202:5,17 209:16
operate 69:5 129:18 151:16,19 235:25
operates 166:10
operating 54:12 69:24 70:12 90:12 236:20 253:10 256:2,9,21,22
operation 174:15
operational 64:11 181:13 196:2
operations 21:7,9,11 22:3,5 262:2 264:13,18
operator 70:14 83:4 250:9,24 255:6,25 256:4
operators 69:13 84:22 123:9 151:9,16,24 152:15 236:8 239:5 250:20 251:12,14,17
opinion 81:1 108:8 154:6
opinions 198:19
opportunistic 191:23
opportunities 20:1
opportunity 14:6 20:2 25:4,21 46:15 52:24 68:13 115:16 244:18 245:6,15
opposed 40:5 73:17 87:2 216:16 242:8
opposite 80:20
optimal 247:8
option 171:19 177:11
options 165:6 172:4 176:19,24 249:15
orbit 110:17
orbiting 112:2
order 116:1 126:13,25 152:21 252:6
orders 78:23,25
org 128:11
organization 20:21 21:2,3,4 29:7 172:16 254:23 283:1
organizational 244:19
organizationally 18:5 61:11 255:11,16 275:22
organizations 58:18 160:11 214:3

organized 233:22 235:12
original 45:22,24 128:19 129:14
 130:12,13 131:15,16 144:18
 148:22 153:3 177:14 255:19
originally 78:23 162:12 181:9
 183:3
originals 145:22
Orleans 12:11 189:19
OUPV 70:15 143:22 144:10
 147:24 148:21 153:15,16 255:18
 256:4
outage 110:19
outcome 29:11 290:17
outer 187:8
outline 223:16 224:5 231:20
outlined 16:25 256:25
outreach 103:3
outstanding 225:22 270:5
Ovatek 182:6 192:6
Ovateks 220:19,21,24
overcrowding 97:8
overinflating 187:22
overload 99:11
overseas 182:2
oversee 123:5
oversees 5:22
oversight 6:1 128:5,7 142:18,20
 168:9,10 169:11 221:12,15 222:4
overview 125:19 127:1 128:10
overwhelm 23:4
owned 83:12 169:18
owner 9:4
owner/operator 9:8 64:17
 169:17
owner/operators 165:7 169:20
ownership 123:16
owns 223:25
oyster 245:11

P

p.m. 162:23,25 289:11
P5 203:14
PA 10:11
pace 246:1
Pacific 10:23 12:25 13:1 161:7
 188:12
pack 179:6,7 203:4 205:16
 209:13,19
package 40:10 41:19,24 52:5
packages 145:21 235:15,16
 238:8
packaging 93:9
packed 85:11 178:16,17 195:9
 201:1
packet 266:11
packets 37:20 262:22 263:7
 270:11,15
packing 197:20,25 198:5 200:25
 210:4
packs 204:19 206:4 209:14
pages 76:24 77:24 115:2 290:11
paid 132:11,18 146:13
pain 199:17
painful 116:5,6
panel 178:20
panels 187:11
Panthers 164:2
paper 169:13 173:13 199:25
 281:19
paperwork 77:3
paraphrase 238:6
paraphrased 238:20
Pardon 186:16 287:10
parse 232:7
part 6:2 19:5,13 28:15 37:25
 43:16 45:20 46:21 48:5,9 55:17
 57:16,17 59:24 81:5 88:2 98:10
 103:2 128:13 131:22 156:9
 157:19 159:18 160:3 163:2

168:19 188:6 193:11 195:8
 208:14,15 213:11,13 228:8,21
 234:4 235:7 242:6 273:13
partial 228:4
participate 14:3 29:16 30:3
 152:7 166:3 283:10
participating 29:13
participation 16:18 29:16 30:7
parties 58:18 133:4 161:9,15,20
partner 29:9,10
parts 183:14 213:6,12
party 61:8 140:21 142:20 145:10
 158:21
pass 8:23 14:9 26:24 123:20
 129:4 135:8 146:10 240:19 257:3
 272:13
passed 19:17 73:22 89:19
 214:15 242:15
passenger 70:14 126:6 129:25
 143:19,21 147:12 154:21 156:11
 256:4
passes 239:21
passing 242:11
passport-style 139:12 141:12
past 20:18 24:24 48:12 79:20
 89:19 95:23 123:13,23 131:24
 188:10 216:17 234:4
patch 188:4
path 18:10 22:21 78:14
pathway 104:6
patient 194:15
Patrick 3:5 11:9 14:25 79:17,19
 80:1,8,17 122:15
pay 57:10 132:12 180:19 207:12
pending 95:21 134:14,23 266:3
people 13:7 18:13 21:10 25:15
 35:8 79:24 80:21 81:21 82:18
 83:21 88:10 89:19,22 94:7,14
 95:5 100:1,20 101:7,23 102:21
 103:17,21 105:19 107:3 108:19
 115:7,13 116:14 119:3,9,12,16
 121:21 124:15 145:19 157:10,11,
 15,25 169:14 174:14 179:16
 180:6,16 181:3,5,15,19 183:8

191:6 194:14 202:7,13 203:4
213:17 224:2 248:7,9 249:1
257:25 282:3,18 284:10 288:19

people's 42:22 43:12 117:1
222:8

percent 66:21 98:15,19 142:1
148:7,24 149:3 160:1 173:7
193:20 200:11,12 213:23

perfect 131:15 220:13

performance 169:4 223:12

period 19:19,21,25 40:17 77:2
165:11 204:23 240:6 261:23

periodic 63:9

periods 20:5 26:10 106:20

permanent 246:11,13,24 247:13,
21 250:5

permit 34:23 135:8

person 24:17 33:12 35:25 36:6
145:3,19 169:16 184:12 185:3
201:2 251:13

personal 4:15 26:3 80:11 104:1
121:8

personally 193:10 241:4

perspective 75:9 104:15 106:14
248:4 255:14 276:6

perspectives 18:4,18,19 75:18
244:16

pertains 125:23

pertinent 133:20

pestering 119:3

Petersburg 9:20 112:19

ph 12:18 82:6 92:20 107:11
249:11 283:24

phase 69:22 152:23 153:14,19

phase-in 152:14 252:1 253:7
255:23

phasing 70:9

Philadelphia 10:10

phone 115:22 120:22 140:21

phones 6:7 119:16

phrase 248:4,5 249:10

phrased 258:3

physical 71:9 83:4 133:18,24
138:2,8 259:16

physically 82:3 145:2

physicians 138:6

pick 10:12,13 55:7 60:19 113:15,
17 271:2

picking 99:22

picks 111:2

picture 86:16 87:3 92:1 104:24
123:15 174:6

pictures 87:1 115:13

pie 75:24

piece 169:1,13,22 198:9 281:19

pieces 75:23 79:23 275:25

pilot's 237:16

Pine 146:4

pinnacle 83:11

pitching 111:13

place 13:7 31:1,23 32:23 35:23
38:20 40:8 44:8 45:6 82:1 88:4
91:2 156:23 160:14 197:24
242:22 243:14 247:1 288:20

places 87:24 94:8 107:2 110:24
188:11 266:12

plan 129:19 270:21

plans 229:24

plate 35:18 287:7

platforms 268:25

play 39:22 42:6 194:2 242:19

plays 95:16

PLB 91:25 94:17 97:1,2,13
102:11

PLB-AIS 90:11

PLBS 21:21 89:16 90:21 91:11
97:11,14

PLDS 15:2

pleasure 225:6 285:7

plethora 245:11

plot 87:2

plots 99:11 152:3

plotter 87:3,8

plotters 99:12

plug 178:25

point 8:20 13:22 26:18 28:19
30:11 36:18 40:3 42:1 51:25 54:7
58:13 62:18 64:20 73:6 78:10
84:25 91:3 104:11 142:13 157:12
160:10 161:21 168:18 174:25
197:4 207:17 239:14 254:8
256:14 257:9,10 258:15 267:25
284:5

pointed 41:6 43:6

points 66:10,11 76:18 125:11,19
231:19 251:3,6

polar 111:10

poles 110:21

policies 27:23,24

policy 11:10 65:13 80:19 127:11,
14 129:17 160:23,24 161:19
183:16 217:20 240:9 244:21
246:9,22 276:1

political 42:5

pool 216:15

poor 110:12

popped 229:22

pops 102:12

populated 265:12,23

populating 266:4

port 99:13

portable 58:8,23

portal 107:17

Portsmouth 11:18

Portuguese 157:5

pose 29:22

posed 115:4

position 11:20 35:9 241:19,22
275:21

positions 75:21

positive 102:20

possibility 25:8 242:24 255:20

- possibly** 98:25 100:5 228:14
234:16
- post** 57:5 183:8 224:2 275:4
- post-casualty** 243:8
- posted** 6:21 7:23 16:11 63:14
71:24
- potatoes** 127:6
- potential** 48:20 126:22 245:12
269:19
- potentially** 20:4 32:21 89:24
103:11 104:12,13 153:24 163:10
232:24 240:11,22 244:15 245:2
246:15 249:1 254:16
- pound** 192:6
- pounds** 89:1
- power** 89:21 117:8,11
- powerful** 122:21 123:2
- PQ** 57:23
- PQEB** 137:5
- PQS** 57:23 63:21
- practical** 152:2 244:12
- practice** 44:2,3,20,24 45:21
146:9
- practices** 45:10,23 46:1 244:21
- praise** 120:16
- pre-read** 15:14
- precheck** 127:25
- preliminaries** 274:5
- prep** 135:18
- preparation** 278:24
- prepare** 32:23 34:1
- prepared** 36:1 45:2
- preposition** 85:12
- preprogrammed** 103:23
- present** 2:2,16 7:17 46:13 73:4
278:16
- presentation** 4:16,17,18 68:12,
13 74:2 76:19 115:12 123:25
124:22 126:14 143:11 196:14
217:16,24 225:24 226:3 227:8,13
254:21 264:9
- presentations** 14:23 25:1,3,6,10
67:14 68:7,9 79:11,12 115:18,20
163:3,14 183:20 286:14 290:12
- presented** 41:19 78:24 254:21
278:14,23
- presenter** 73:4
- presenters** 15:16 68:9 115:17
226:21 286:15 287:1
- pressure** 64:3 114:13 170:15
187:21
- pretending** 202:4
- pretty** 13:12 53:13 80:16 82:23
85:9 88:25 90:7,8 92:3 101:15
105:5 106:3 110:15 111:12
141:24 144:17 146:9 154:1
210:19 267:5 274:3
- prevent** 17:15,16 288:22
- Prevention** 14:17 81:23
- prevents** 139:22
- previous** 134:24 153:11
- previously** 125:14 164:16
- primary** 123:7,10,22 239:22
- print** 137:2
- printers** 141:13,15
- printouts** 8:12
- prints** 130:20
- prior** 16:2 19:15 21:22 38:5 67:14
77:25 124:2 172:25 278:13
- priorities** 41:21 42:5,6,15
- prioritizes** 39:12
- priority** 42:7
- privilege** 166:4
- privileged** 80:5
- probability** 173:8
- problem** 52:6 59:19 62:3 98:12
103:14,20 104:2 116:20 121:4
124:5 141:20 192:16 197:10
202:18 215:25 227:12 234:11
246:19 262:10
- problems** 40:19 47:19 61:19
94:15 172:23 173:6 174:10
197:25 198:14 200:10,12,16
249:2
- procedure** 213:10
- procedures** 63:10
- proceed** 75:13
- proceeding** 79:7
- process** 19:8,13 38:12 39:6 48:5,
12 51:10 52:12 74:4 95:17 110:13
115:22 116:4 121:14 125:24
126:1 128:14 130:14,19 131:5,8
136:12 140:20,24 167:18,23
182:24 184:2 236:24,25 237:9
240:6 254:11,22,24,25 260:11
267:13 275:12 283:11
- processes** 69:3 71:4 72:9,10,19,
23 80:3 235:23 236:6,22 237:2
240:8 259:11
- proctored** 146:14
- produce** 238:13
- produced** 213:23
- produces** 182:5
- product** 97:6 167:24 169:3
- products** 9:12 81:10 110:6
169:23
- professional** 135:19,21 276:22
- professionally** 136:7
- program** 5:16 65:13 125:11,20
126:2 127:4 132:6 152:8,10 156:7
166:3 167:15,18 168:6 204:25
206:24 209:21 215:5 222:1
243:13 244:2 248:21 252:1 267:5
- programs** 128:6 168:9,16
177:12,24 206:23 245:23 246:2
- prohibit** 49:12
- project** 18:22 19:3,20 37:14,18
39:20,24 40:14 92:4 172:18
218:18 219:6
- projected** 112:11
- projects** 18:14,16 38:16,18
39:12,13,18 83:7 84:4 245:4
- promise** 76:13 117:15
- promote** 64:21
- proof** 132:9
- propelled** 21:13
- proper** 151:17,25 152:5

properly 196:1
property 134:19
proposal 254:19
proposals 142:15 183:7,15
 185:8
propose 242:13
proprietary 172:6 178:24 180:18
 195:6
propulsion 235:6 276:25 277:3
pros 19:14
prospective 29:9
protection 165:18 215:23 216:4
protective 135:25
prototype 213:19
prototypes 213:15
prove 200:22
proved 197:20
provide 20:5 25:19,20 37:21
 44:24 50:1 75:8,14 84:24 85:3
 86:18 91:1 114:16 116:16 132:24
 133:3 136:18 138:11,21 169:19
 179:22 219:10 228:4 229:3
 232:18,25 233:23 240:13,14
 245:16 248:11,17 271:21
provided 24:6 49:3 122:18 226:1
 275:1
provider 110:2 144:22
providers 142:21
providing 83:10 169:11 226:19
 248:6 274:25 276:4
provision 160:21
provisions 71:10 259:16
public 2:21 4:20 11:3 14:2 16:8,
 11,14,18,19 17:1,3,4 19:19 20:1,5
 22:20 23:17 25:23,25 26:10,13
 30:20 40:4,9,16 51:11 75:24
 81:14 91:12 172:8 183:2,8,14
 194:25 280:12,13 283:9,10,13
 284:14,25 288:2
public's 25:21 30:17
public-facing 103:6 184:11
publicly 265:17

publish 16:3 42:11 103:18
published 16:13 19:2 42:9
 270:14
Puerto 86:18
pull 259:7 265:15 278:19
pulled 58:12 195:7 229:15 261:1
 263:16 279:15
pulls 263:10
purchases 175:6
purpose 28:8,10 29:5 32:13 95:3
 181:17
purposes 27:23,24
purse 160:5
push 100:6,10 102:7 105:16
 124:2
pushed 37:23 38:5,9 39:19,20
 77:13
pushing 55:20 105:1
put 24:11 43:20,21 44:9,16 45:2
 46:1 54:18 57:7 62:20 82:12 85:8
 95:4 98:22 99:3 103:6,8 104:9,15
 106:13 108:14 109:18 112:7,11,
 12 114:1,2 118:5 121:19 122:22
 123:13 137:2 138:16 142:15,22,
 24 143:4 145:21,23 154:16
 156:22 179:7 188:15 192:19
 195:25 196:5 199:25 201:8
 202:20,21 203:2 220:6,13 224:18
 226:10 247:1 252:20 257:25
 265:21 269:13 273:22
puts 81:5 134:11
putting 15:18 44:6 82:3 104:9
 105:3 114:9 131:25 159:17
 192:13 202:17 203:6 213:16
 242:8
pyro 166:1 197:7,10,11,14 198:7
 199:14

Q

qualifications 135:19,21
qualified 136:22 138:13
qualifies 136:6 144:7
qualify 149:1,2,4 236:22

qualitative 174:1
quality 168:6 213:11,19 214:19
 220:22 222:7
quality-control 168:16
quantitative 174:1
queried 265:21
question 31:6 32:11 34:22 35:1,
 13 48:1,3 49:1 73:24 94:17
 106:15 108:20,21,24 112:17
 117:20 121:8 122:20 140:8 142:9
 154:2 156:14 158:10 165:11
 185:2,11 194:18 204:14 209:6,25
 211:16 218:4 220:8 230:1 239:16
 240:25 247:17 249:21 256:6
 272:22 274:12 282:9 283:18
questions 7:2 15:7,15,20 18:21
 40:24 46:19 62:8 65:21 67:6
 68:10,13 72:1 73:10 76:16 78:8,
 10 79:5 88:24 103:10 108:18
 109:17 115:3 122:12,23 157:16,
 21,23 158:3,16 159:2,8,10 161:19
 165:8,9 166:1 183:10 184:22,23,
 24 185:7,19 187:7 206:7 212:17
 222:14 224:24 225:23,25 226:4,5
 227:10 231:5,25 235:8 236:12
 238:22 239:10 253:15 259:19
 260:1,9,11 272:7 279:3 280:11

queue 213:21
quick 12:20 30:20 65:21 85:9,23
 90:14 95:21 100:9 114:4 227:13
 276:1 279:23 280:20 285:9
quickly 61:15,23 141:25 143:2
 216:19 226:15 246:10
quorum 4:6 7:12,13
quote 112:5

R

R&d 203:20
radar 87:8 100:10,11,13,14,15,16
 101:1 113:16
radars 113:15
radio 89:14 93:11,16 100:7
 101:24 103:22 104:10 105:4,5
 106:7 113:10
radio's 84:23 113:13

radios 81:19 85:14,21,25 106:16
 112:21 113:8 119:17
raft 4:18 8:16 70:19 163:16,20
 168:18,20 169:10 171:13,20,21
 173:19 175:5 177:4,5,6,7 178:14
 179:3,18 180:1,12 182:4,5,21
 186:4 187:11 188:2,9,20 189:5
 190:13 192:18 195:24 196:25
 197:5 201:3,21 202:2 203:1
 204:4,6,10,25 205:1,4,8 206:14,
 25 207:6 212:18,22,24,25 213:1,7
 216:11,18,24 284:3
raft-sh 211:19
rafts 15:9 169:7,24 170:4,12,19
 172:1,10,23,24 173:1,11,17,18
 174:17,22 175:20 176:15 177:20,
 22 178:4 180:22 184:4 185:15,25
 187:8 188:15 190:21 191:5 192:3
 194:20 200:10 203:4 207:5,6
 210:4,23 211:5,22 212:7 213:22
 215:8 218:9 225:23
rails 252:17
raise 27:3 161:16 225:12
ran 188:13
random 152:8 154:24 155:5
 156:6
randomly 105:23 152:12
range 21:9 84:2 108:11
Ranger 234:8
ranging 21:12
rank 41:10
rapidly 21:21
rare 179:11,12
rarely 114:25
rations 171:9 182:16 198:7
rats 202:7
raw 186:9 268:7
RBC 121:21
re-vacuum 179:7
reach 103:17 122:24 161:20
 231:13
reaching 243:2
read 8:5,10 16:7 17:1 31:18 53:22
 54:13 67:12 68:16,21,23 76:17
 87:9 109:15 156:16,19,20 157:8,
 20,23 158:3 174:15 178:18,25
 248:10 270:17,23 280:23 281:9,
 10
readable 268:11
readiness 64:11 174:15 181:13
 196:2
reading 18:12 56:4 69:2,9,20
 70:7,18,23 71:3,13,18,22 77:10
 86:6 115:10 157:15,16 163:9
 179:1 238:15 259:10 260:4 286:4
reads 251:22 259:10,22
ready 63:1 73:23 89:14 177:20,
 23 259:3
real 17:15 30:20 56:6 85:23 100:9
 189:10 249:2
reality 217:5 269:17 276:1
realize 43:1,7 116:9,10 141:17
 201:21
realm 275:20 279:20
reapplying 183:5
Reardon 290:4,21
reason 88:2 118:19 206:15 210:3
 250:7
reasonable 244:12 261:15
reasons 88:12 108:6 223:20
reboard 274:9
rec 86:3 101:20 131:14 133:14
 134:3 136:25 158:1 267:1
recall 6:25 278:23
receipt 275:17
receive 24:15 88:6 100:16 168:2
 203:21
received 276:2
receives 274:18
receiving 29:2 106:9
recency 69:7 144:1 147:12
 236:2,9
recent 229:23 232:8 248:22
recently 64:22 66:20 95:19 100:9
 119:24 139:9 144:25 161:15
 173:4 254:6 277:7
recess 162:23 289:2,4
recessed 289:11
recessing 289:3,9
recognition 8:17 70:24 279:7
recognize 5:8,12 7:10 14:25
 77:23 82:7
recognized 90:23 110:13
recognizing 77:12
recommend 67:3 121:21 173:9
 176:16 241:6 246:7
recommendation 45:9 48:6
 66:13 153:14 175:2 176:4 229:12
 238:10 242:7 243:7 252:3,10
 254:14 255:10,22 262:17,24
 263:5 266:23 267:3,12,17,19
 268:9 270:25 271:23 274:19
 275:11 288:16
recommendations 15:22 16:23
 17:5,10,11,23 18:1,7,16 20:16
 22:14 23:2,5,11 41:7,11 43:17
 45:1 63:8 69:3,10,21 70:8,18,21,
 23 71:4,14,20 72:9 75:4,6,13,16
 78:13,18 91:20 151:7 152:24
 227:16 228:20 235:18,23 238:5,7,
 17,18 239:2 240:18 241:17,20,22,
 25 242:4,18 244:11 245:7 251:7,
 23,25 252:11 253:6 255:11
 259:10,23 260:6 262:14 266:3,6,
 11,13,17,22 267:15,21 268:1,3,4,
 16 269:20 270:5,8,17 271:4,8,10,
 12,17,19 272:3 275:4,14
recommended 45:18 64:10
 119:24 162:16 173:12 218:15
recommending 91:16 243:12
 250:5 266:23
recommends 50:18,23
reconvene 289:5
record 6:21 7:18 8:22 30:17,20
 33:1,11 40:3 42:19,25 43:10
 53:17 55:14 62:2 67:13 68:16,18
 71:23 76:21 118:3 140:10 164:25
 190:6 208:3 214:19 217:16,24
 251:1 254:1 259:1 282:17 284:19,
 22 285:12 288:7 290:12
recorded 175:25 214:8
records 62:8 175:9,19 191:4,8,
 14 195:22 203:24 214:9,13 215:2
 260:24 268:15

recover 21:21
recovered 89:24
recreation 215:7
recreational 166:14 211:5 212:6
 216:24 217:5 219:25 220:1
RECS 127:23 128:2 131:12
red 102:1 110:23
redone 188:1
redrafted 46:25
reduce 242:24,25 243:16
redundant 117:8
reemphasize 58:13,17,19
reference 56:25 57:13 65:8
 73:14 123:12,16 258:16
referenced 40:5 229:11
references 25:20 56:19 62:18
 63:5
referred 177:15
refined 279:21
reflect 24:13 77:2 250:15 263:1
reflected 261:18
refresher 284:14
refrigerator 204:5
reg 19:7,20 38:24 175:24 185:12
 198:15 213:21 223:13
regard 24:5 26:6 28:24
reginfo.gov. 18:24
region 85:10 111:10
regional 10:23 127:18 131:8
 134:6 144:21 157:14
regions 12:22
register 16:2,13 40:4 68:19
 183:10
registered 69:6 126:10 143:22
 147:10 154:9 220:1 233:15,19
REGISTERED/PRESENTERS
 2:21
registry 68:17
regress 237:23
regs 198:14 211:14 217:20 218:1
regular 174:7,8 186:1
regularly 186:13 190:14 194:20
 196:6
regulate 22:11 43:18
regulated 243:9
regulation 19:15,17 39:12 43:18
 65:25 66:2 127:11 129:2 175:25
 191:22 244:24 246:16 284:12
regulation's 240:4
regulations 34:23 40:7,19 42:24
 62:22 63:6 65:10,13 98:6 127:3,
 15 136:3 165:13,19 166:20,22
 167:11 168:4 173:16 175:16
 179:24 180:11 181:12 190:20
 212:4,11 217:13 223:10 240:3,10,
 12,16 242:8,23 268:25
regulatory 18:14,15,22 19:3
 21:17 37:14,18 38:16 39:23 40:14
 41:19,24 56:19 80:23 170:25
 183:16 206:8 240:1 245:1,4
 247:7,10,14
relate 139:3
related 15:7 81:24 97:7 103:7,19
 108:1,2 165:21
relates 135:22 219:16 272:23
relation 58:24
relations 10:14 63:6
relationship 177:1 193:12,25
 240:15
relative 168:3 290:14
relevant 64:18 65:12 159:18
 286:15
relied 13:5
remain 111:9 267:2
remark 65:5
remarks 4:8 14:10,11 51:19
 219:25
remember 7:8 97:18 138:19
 153:4 204:6 266:23
remind 20:8 201:15 273:18
reminded 29:6
reminder 6:9 67:5
remiss 24:16
remote 8:24 21:18 82:25
remoted 88:3
remotely 83:2 84:18
removed 206:10 218:15
rename 45:9
render 90:4
renew 129:20,22,24 130:2,9,10
 131:1 137:12,14 153:7 154:25
 156:8
renewal 137:15 284:17
renewals 145:22
renewed 121:10 214:17
renewing 182:24
reoccurrence 17:16
rep 97:6
repacked 188:16 202:21
repacking 196:4 201:14 204:11
 209:9
repair 170:21 187:13,14,16
 201:12
repairs 63:1 170:19 174:24
 187:7,10,12
repealed 218:22
repeat 27:3 235:14
repeated 245:22
replace 177:7,8 188:5 190:2
 204:24 205:9,15,18 206:24
 207:12
replaced 170:22 171:11 187:17
 189:15 201:3 205:5 206:18
replacement 177:3
replacing 177:4 182:14,15 205:1
 208:8
report 186:21 194:25 225:9
 237:14 274:11
reportable 235:7 273:13,14,19,
 24 274:4 276:15
reported 273:14
reporter 6:20 118:12,14 122:7
 230:21,24 231:1 290:4,22

Reporter@vetscmd.com 1:24
reporting 114:10 216:22,25
 217:6 280:1
reports 216:2,6 220:23,24
 260:21
represent 9:11 290:12
representative 9:13 16:22 75:20
 78:18 80:25
representatives 20:24
represented 256:24
representing 12:19 75:23
reprioritization 40:22
reprogram 113:9
reprogramming 113:9
reps 75:22
request 7:7 19:22 153:12 160:25
 175:15,17 224:4,19
requested 278:12,16
requests 7:3 19:24
require 69:12,16 109:11 138:18
 151:8,12 179:13 182:11 239:4,7,
 15 240:2 241:13 243:24 244:23
 245:8 281:18,20,22 284:2,9
required 7:14 16:3 64:4 130:15,
 16,17 132:20 137:13 138:4,20
 141:23 144:10,20 147:13 151:21,
 25 152:7 154:19,20 160:18 161:4
 167:24 168:7 175:24 176:8
 179:18 219:1 249:3 282:2,10
requirement 31:25 48:8,10 70:4,
 16 71:16 83:13 121:7 144:5
 147:16 148:10 149:21 151:3,19
 155:4,17 160:15 176:6 217:8,12
 253:14
requirements 26:21 57:12 59:23
 89:6 90:9,17 101:7 105:12 117:11
 125:23 126:6,10,16,17,23 128:13,
 16 129:4 133:1 143:19,24 144:15,
 16 147:9 148:7,11,23 149:8,13
 152:18,25 153:16,21 161:17
 165:4 167:3 168:4 169:4 170:4
 173:2,14 175:3 176:17 178:7
 184:5 206:10 213:9 216:22 217:1,
 6 219:4 243:6 259:25 261:3 280:2
requires 119:25
requiring 151:15 179:24 284:6
reread 196:10
RES 127:24
rescinded 78:25
rescue 13:4 15:2 79:20 81:11
 82:11 83:19 84:7,17 86:8 89:10
 90:14,16 109:9
rescuing 119:9
research 22:8 91:13 119:1 165:4
 172:12,18 227:9 275:19
reservation 28:8,10
reserviced 201:23
Reservist 78:22
reshuffling 40:21
resident 15:9 57:25 63:20
 155:25
resolution 171:24,25
resolve 61:16,23
resource 142:15
resources 39:9,14 165:7 180:4
 183:19
respect 62:14
responding 245:13
response 185:1 276:5,12
responses 271:13 275:1,4 276:4
responsibility 6:1 64:16
responsible 5:21 121:18 257:16
responsive 89:1
rest 80:21 122:13 198:20 225:8
 227:13 228:16 264:2 286:6 287:6
restacked 38:19
restacking 41:21
restacks 39:3
restricts 97:11
restrooms 6:15
result 134:15 136:17 143:1
resulted 274:9
results 106:3 118:23 132:4
 226:23 229:22
retired 10:8 83:15
retune 100:22
return 67:24 92:5
reverting 53:11
review 4:14,19 14:21 17:18 71:4
 164:14 165:17 226:24 227:11
 258:1 259:11 269:9
reviewed 30:1 39:16
revolves 165:23
reworked 48:1
Reyes 2:24 11:4,5 15:13 84:25
 166:5 227:3,12,18 230:4,7,12,15
 231:6,15 232:3,12 233:5 234:12,
 14 235:2,11,20,22 236:15,24
 237:25 242:17 245:21 247:2,4
 249:16,21,25 250:19 252:5,9,18
 253:4,22 255:17 259:4,9,21
 260:3,10,25 261:8,10,14,17
 262:3,6,13 263:15,19 264:4,12,15
 265:5,25 266:9 268:5 270:10
 273:2,5,8,10,20 276:14,20 277:8,
 13,16,19,23 278:3,7
Rico 86:18
rid 199:22 218:24
rigging 192:7
riggings 192:4
rigid 182:5 192:3,6
rigor 109:21
ring 222:20
rings 222:18
rips 113:25
risk 119:12 120:12 164:12 219:2
risk-based 59:4
risk-informed 164:14
road 163:23 164:18 233:4
Robert's 7:1,2,10
Robinson 12:15,16
robust 83:21,22 168:9,15
roger 54:16
role 19:9
roles 80:24

roll 4:5 7:18 282:6**rolling** 111:13**rollout** 83:8**room** 6:18 8:24 12:22 25:17
67:24 82:14 83:5 92:19 94:14
99:25 106:1 150:9 165:9 286:21
288:14**roots** 171:17**rope** 179:19**ropes** 58:10**Rose** 89:20 270:14,24**Rosvold** 2:8 9:20,22 91:18 92:7,
14,16 93:1 94:13,19 112:16
113:7,13,21 114:8 119:22 120:3
204:3,15,18,21 205:7,11,17
206:20 207:3,8,14,17,19,21,24
260:14 261:9,11,15,20 262:5,8
263:9,16,20,25 264:25 267:24
278:2,5**rot** 187:17**rotting** 196:7**rough** 174:9**roughly** 42:21**route** 181:24 210:18**routed** 17:11**routing** 50:3,4 53:2,11**row** 114:25 115:1**rubber** 233:4**rudder** 234:8,10**Rudolph** 2:25 11:24**rule** 29:15 38:1 206:8,9**rulemaking** 19:8,13,14,19 95:15
218:8 240:6**rules** 4:7 6:24 7:1,2,11 25:15
34:23 96:2 210:7 239:14 257:11**run** 32:22 35:22 53:10 60:19
61:23 154:9 163:1 196:3**running** 35:21 38:23 62:10
104:16 121:6 123:24 196:2
226:25 272:5**runs** 104:15 154:14

S

S100 87:5**S30** 178:2**safe** 134:17 135:3 247:12**safely** 281:16**safer** 281:21,23**safety** 1:1 4:2 5:5,16 9:12 10:5
11:13,18,23 12:1,5,12 14:14
18:11 20:23 21:10 22:21,23
27:13,16 40:8 41:3,8 64:24 65:1,
11 66:9 67:18 71:1,2 97:6 101:23
102:3 106:4 117:3 134:8 165:15
166:8,13,24 179:23 193:13
199:17 206:22 211:9 222:8
223:13 227:16 229:23 230:2,4
238:16 240:24 245:18 246:9,19
248:11 262:24 263:5 265:13
266:17,22,23 267:2,11,17,19,21
268:1,16 271:4,10,11,16,19
274:18 275:10 290:9**sailed** 13:9**Samantha** 2:20 12:3**San** 85:1**SAR** 88:23 89:7 90:11 91:21
108:1 115:5**SART** 100:11,14,15**SASH** 134:21**sat** 266:20**satellite** 81:12 110:5 111:14,17,
23 112:20**satellites** 110:16 112:4**satisfaction** 56:16**save** 13:6 89:15 192:16 208:8
287:12**saved** 89:24 100:13**saving** 89:13 101:9 165:18**savings** 89:10 205:3**SC-** 166:7**scale** 21:24 257:14**scallopers** 192:5**Scandies** 89:20 270:13,24**scary** 145:5**SCCW** 139:2**schedule** 79:14 128:4 136:25
227:1**scheduled** 26:11 55:19 162:13**school** 82:5,17 132:24 157:2
164:11 178:11**science** 10:14 224:10**Scotia** 21:20**Scott** 11:22 287:4**screen** 37:24 45:3 106:1**scroll** 228:1 229:7**sea** 84:11 112:6,7 126:7 133:1
135:23 136:4,10 137:12,13
143:24 144:4,7,10,15 148:10
151:18 152:25 234:11 258:5,6
282:19**sea's** 258:9**Seacor** 89:20**Seafood** 118:18**Seafoods** 12:2 118:5 280:22**seagoing** 149:24 150:5**seamanship** 152:2**seamen** 155:20 250:13**seams** 203:6**Sean** 206:21**Sean's** 208:5**search** 13:3 18:25 90:16 109:9
260:21 261:2 263:10**searching** 91:6 262:9**seas** 213:16 256:12**season** 282:21**Seattle** 9:14,18 11:25 206:22**SEC** 81:7**Secondary** 81:19**section** 30:12,23 31:5 35:2 50:15
79:8 181:14 184:9 228:11 238:17
259:2,20 260:2 277:24**sector** 12:17 85:18**security** 129:19 139:21 140:19

seek 243:15
sees 208:6
segments 228:11
seine 160:5
selected 46:17
selective 86:1 87:12,16
self-executing 19:18 239:25
self-propelled 149:23 150:4
self-test 105:9
sell 103:24 104:1 182:17
selling 93:7
sells 112:19
send 14:19 86:25 103:14 107:20, 23,25 108:11 119:23,25 121:12 122:20 134:4 168:24 169:15 185:16 195:2 214:13 271:15 272:15
sending 178:10 221:13
sends 12:19 24:22 102:13 119:2 120:10
senior 39:1 82:16 165:22
senior-level 38:21
sense 61:2 74:2 200:5 260:8,22 263:8
sensory 99:11
sentence 243:23
separate 73:15 265:1
separated 252:16
separately 137:22
separation 106:8
series 168:19 178:2
serve 29:8 151:17 152:5 255:25
service 64:12 66:13 70:19 71:6,8 81:10 84:24 85:4 86:19,20,24 90:23 114:16 116:17 121:22 126:7 133:1 135:23 136:5,10 137:12,13 143:24 144:2,4,10,11, 15 147:14,18 148:10,19,21 151:19 152:25 173:9 174:8 179:5, 6 180:21 181:9 186:1 190:16 196:25 197:5 203:4,18 257:15 259:12,14
serviceability 62:25
serviced 66:19 172:2,24 173:3,4 174:13 175:19 177:24 186:13 194:21 196:5,6
services 80:23 83:10 88:15 92:5 95:1 120:25 174:4 185:21
servicing 4:18 8:16 11:15 15:9 66:5,6,8 163:16,20 164:8 165:3, 10 166:3 170:3,11 171:1,12,20,21 172:21 174:1,7,8,20 175:3,5 176:5 177:1,5,6,13,19 178:1 182:11 184:1,3,9 187:3,4 189:15 190:14 191:8 194:16 195:8,23 201:6 207:11 210:3
serving 70:10 149:19 150:2,10 153:5
session 30:22 32:18 37:1,3
set 8:7 20:8 26:15 35:6 53:11,12 85:17 107:14 186:7 234:14 238:23 243:10 275:15
sets 39:17
sex 254:4
sexual 134:21,22
SGE 30:1
SGE's 28:21
SGES 30:5
shape 18:4 244:18 269:24
share 17:24 118:23 163:22 172:8 196:11 203:18 210:22 220:20 225:10 278:16
shared 203:16
sharing 18:7 220:25
sheets 7:20
shelf 177:10
shell 187:8
Sherlock 3:1 12:10 219:15,23
Sherwood 286:22
shifting 125:9
Shine 104:16
ship 38:23 82:12 172:5,6 177:16 193:8,21
Shipboard 4:16 80:12
ships 5:23 99:24 100:19 105:2 118:4,19 174:18 213:17
shipyard 9:4 234:10
shock 219:3 288:13
shop 104:18 231:17
shore 90:12
short 30:4 62:10 77:2 83:6 136:10 162:2 247:19 281:1 285:5
short-range 83:20
shorten 28:17
shorter 106:21
shorthanded 142:19
shortly 228:22
shoulder 7:15
shout 163:21
shoving 117:1
show 32:8 85:16 101:2 103:12 107:18 108:7 119:5 161:4 170:2 178:21 185:14 191:11 214:4 229:1 265:8 273:3,6
showed 57:11 186:8 278:24
showing 5:8 115:7 174:11 195:21
shown 183:2
shows 86:5 94:3 178:20 209:12, 16 210:13 268:8
shrimping 9:3 13:25 14:4
shut 93:6 111:4
sic 55:18 142:22 143:2
SID 199:8
side 7:21 8:12 14:24 31:22 43:4 62:21 80:20 82:2 83:10 89:12 90:1 93:21 118:6 142:11 185:11 216:11 217:2,4,5
sideband 88:19
sidebands 113:2,4
sights 99:25
sign 7:20,22
sign-in 7:20
signal 91:1 98:22 102:12 112:13

signaling 95:7 120:20
signed 47:8 73:21 131:20 160:23
significant 179:13,22
silence 6:8
similar 99:3 120:8 140:10 142:9 239:1
simple 48:23
simpler 90:13
Simplified 7:2,11
simply 217:14
simultaneously 76:10 96:6 122:4 156:3 159:22 162:11 201:25 211:13 215:14,17 230:20 264:9,24 273:1 274:23 277:12,18 285:21 288:7
single 88:19 105:6,7 169:22 184:14 214:11,12,19 231:4
sinks 216:24
sir 9:1 26:8 37:20 59:12 62:4 78:19 91:8 133:19 185:22 187:5 275:3
sisters 287:23
sit 56:11 119:8 145:2 146:6,15 212:20 214:7
site 84:13,15,19 103:6 107:10 183:2
sites 83:24 84:8,18,19 85:2
Sitka 10:4
SITOR 88:15
sits 26:19
sitting 83:4 177:10 196:7
situation 24:20 48:22 60:4 100:21 123:11 189:13
six-month 171:5
six-pack 155:8
sixth 79:17
sixth-grade 156:18
size 193:24 221:2
sizes 221:2 232:21 282:20,22,23
skiffs 22:3
skills 249:5
skipped 191:6
skipping 229:18
sleep 8:18 71:19 260:5
slew 42:3
slide 86:14 87:11 89:16 90:20 103:1,19 107:5,16,18 108:9 109:14 115:8 118:25 125:18 129:16 131:13 135:15 139:7 143:16 147:9,17 148:12,17 153:8, 11,25 159:17 160:10,20 164:23 165:12 166:16 167:14 170:24 172:4 176:19,20 183:18 184:19 227:20,24 228:2 260:15 272:10, 23 281:9
slides 81:17 87:9,15 88:21 103:4 133:2 143:18 151:4 153:17 159:15 225:19 257:25 258:13 281:2
slight 7:15 24:24
slightly 199:16 279:25
Sling2 224:17
slots 183:14
slow 52:5 100:6
slowly 228:1
small 22:3 43:10 54:15 61:16 90:6 101:17 165:15 166:14 187:15 189:8 192:5 227:22
smaller 192:1 211:24 216:15 255:20
smart 156:17 157:2
SMIS 281:7
sneak 65:15
snippet 57:11
snippets 238:12
Society 10:22
soft 222:23
SOLAS 166:12 167:9 168:13 171:16,17,18 173:13 176:17 178:4,6 181:10,18 196:20 204:4,9 205:17,23,25 207:4,10 211:23 221:4
sold 104:4 182:18
sole 184:12
solemnly 27:6,7
solid 224:9
solidity 178:18
solution 245:17 247:13,20 250:6 262:9
solutions 16:23 21:18 245:12
solve 40:20 192:16
solved 197:8,9 198:8
somebody's 176:3
someone's 209:4 218:2
sort 92:21 152:11 167:4 178:10 187:17 200:24 204:22 213:18 229:11 237:15 246:3,22 252:15 260:15 263:9 268:17
sorted 272:21
sorts 79:24
sounds 6:9 48:4 73:23 241:9 259:3
source 123:8,10,22 280:7
South 1:7 84:25 161:6 164:19 188:12 189:20
Southeast 114:14
span 134:25 186:2,4 229:10 232:16
Spanish 157:3
speak 7:3,6,8 51:5 55:14 76:25 96:5 118:2,13 122:3 156:2 157:9 159:21 162:10 164:24 201:24 208:3 211:12 215:13,16 217:15, 23 230:19 233:8 250:25 253:25 258:25 264:8,23 272:25 274:22 277:11,17 280:16 284:19,21 285:11,20 288:6
SPEAKER 28:15 32:7 34:8 35:1 76:12 95:9 101:3 113:3 120:9 124:18 155:25 211:7 215:18 219:20 230:6,13 235:19,21 261:7 264:21 277:6,21 282:25 283:19 285:15
speakers 157:3
speaking 7:24 156:15 278:25
spec 62:25 170:6 213:21

special 8:16 13:7 28:22 29:19, 24,25 70:24 172:4
specialist 10:19
specific 64:18 126:5,16,21 150:17 151:3 168:22 171:20 178:7,24 179:5 180:22 193:18 204:16 213:8 223:2,3,20 278:13
specifically 61:12 168:7 170:7 184:8 257:10
specifications 213:9
Spectrum 80:18
speed 143:1
spent 81:25 140:20
spirit 49:16 53:15
spoke 25:17 30:21 76:9
sports 216:11
spot 133:9 273:23
spotlights 105:24
spots 14:2
spotty 84:13
spreadsheet 43:22,24 44:13,16 74:23 268:3 272:18 278:12
spring 14:13 32:24 34:3
squished 105:5
stability 192:20 193:5,22 248:14
stable 193:8
stacked 38:19
stacking 38:15 41:20
stacks 39:2
staff 61:14 89:7 165:22 268:21
staffed 142:10
stages 126:3 131:6 136:9
stance 271:6 274:21 275:10,13
stances 275:18
stand 27:2
standard 88:8 90:18 105:16,20 113:16 151:18,19,21 166:9 178:14 240:8
standard's 105:18
standards 58:22 63:7 81:19 127:3 165:13,14,19 185:8,9
standing 11:19 84:22,23
standpoint 83:13
stands 195:12 267:17
Starlink 79:20 95:1 109:18,23 111:19 112:21 115:2,23 116:2,8 117:5,23 118:4,18 121:17 123:6
start 68:4,25 86:15 87:20 140:2 205:2 207:8 238:25 271:6,15
started 82:2,5 83:6 111:16 237:12 268:16
starting 91:3 192:2
starts 149:10 288:4
state 7:8 27:4 30:23 52:4 76:22 134:13 219:17 220:1,2,4 233:16, 18 234:19 256:19 280:19 290:2,5
state's 43:24
stated 29:1 48:18 258:4
statement 28:20,23 50:16,19,24 54:18 65:4,6,8 68:20 69:1,8,19 70:6,17,22 71:3,12,17 131:20 152:13 235:17 238:19
statements 56:4 79:6 151:6 228:15 238:4,19 245:14 260:12
states 21:25 22:5 35:3 42:21 64:12 68:20 71:21 127:20 131:9 140:18 174:5 221:20
stationed 12:23
statistical 56:20 62:19,21
statistics 140:6
status 46:4 138:22
statute 19:16 29:6 39:13 51:22 239:21 240:16 258:22 274:25
statutes 49:12 240:17
statutorily 95:13
statutory 40:7 246:17
stay 73:16 76:12 113:1 198:20
staying 121:4
stays 13:13
steering 277:1
step 131:10 133:15 134:8 242:18 248:20 251:24 277:22
step-by-step 184:2
Stephanie 3:4 11:12 15:8 163:18,19,22 164:2,8 190:2 217:3 224:23 225:11,22 226:1
Stephanie's 224:6
steps 40:17 137:4 161:2 247:19 249:12,15
steward 250:13,18,22 251:12
sticker 66:18
stickers 191:11,12
sticklers 282:4
stomachs 124:15
stone 257:3
stop 61:2 247:8,9
stopped 261:24
stops 136:12
store 9:5 192:14
stored 171:2
stores 105:23
stories 156:24
storing 174:14
storm 84:21 113:25
straight 6:13 162:17
strategies 71:15 259:24
street 1:7 147:21
stretch 285:10
strict 168:8 199:22
stricter 212:10,12
strictly 191:18
strike 23:9,13 270:3,9
striking 23:10
strong 212:13
strongly 260:18 262:23
struck 215:7
struggle 111:19
stuck 91:15

- students** 82:20
- studies** 76:23 118:23 176:16
210:10
- study** 172:20,21 173:14 175:10
190:13 210:24
- stuff** 38:25 48:16,24 66:19 82:13,
25 83:9,14 86:15 87:4 89:1 92:12,
13 98:7,9,24 101:20 103:18
105:1,24 107:11,12,13 115:7
167:4,7 174:17 179:2 188:15
192:19 204:12 205:1,8 206:10,12
207:14 208:8 210:12,14,20
213:14 215:3 218:10,14 261:5
267:10 268:7,14,19,22,24 288:14,
17
- stuffy** 189:25
- subchapter** 42:11 130:5 167:1,
6,7 170:10
- subcommittee** 26:2 78:4 166:8
252:13,15,20 283:11,14,16
- subcommittees** 163:10 251:5
252:21
- subject** 56:21 181:18 221:4
258:12
- subject-matter** 11:14 80:1
107:21 123:1 165:23 226:2,7
- subjects** 79:25
- submersion** 218:13
- submit** 127:22,23 131:7 132:25
133:11 152:21 155:1 252:23
- submits** 131:14
- submitted** 16:8 133:14 136:16
138:5,8 145:15 173:13
- submitting** 131:11 133:5,7
- subpart** 167:3
- subscription** 112:23 120:1
121:11
- substantial** 70:25
- subsurfaced** 114:6
- successful** 22:16 269:22
- successfully** 168:4
- succumbing** 21:22
- sudden** 32:21 94:2 110:7
- suggest** 73:25 231:12 255:5
287:16
- suggested** 63:7
- suggesting** 241:10 261:25
- suggestion** 52:15
- suit** 62:15 63:7,17,22 64:6 66:13
202:23
- suitability** 134:8
- suitable** 134:17 135:3
- SUITES** 1:6
- suits** 62:23 63:10,19 64:2,8,12
66:4,7,20,25 67:6 68:11 165:10
169:7 185:15 202:19 218:25
222:5
- summarized** 194:24
- summary** 195:5
- super** 19:9 95:21 122:21 123:2
227:22 279:23
- supplier** 209:1
- supplies** 117:8
- supply** 9:5 80:22 173:23
- support** 15:25 217:18 235:13
242:9 262:15 264:17
- supporting** 218:3 238:24
- supposed** 31:8 38:4 97:12,20
119:7 154:13 190:25 194:5 209:3
274:25 285:8
- surfaced** 161:15
- surfaces** 25:9
- surprises** 51:21
- Survey** 10:21
- surveyor** 10:22 214:6
- Surveyors** 10:23
- Survitec** 180:19 197:12,21
203:13
- survivability** 220:21
- survival** 11:14 164:8 165:3
167:21 171:8,14 176:24 182:14
189:4 192:23 194:12 204:16
206:5,18 209:2 210:4,17 222:4
- suspect** 248:4
- swear** 26:17 27:6,7
- swearing** 26:25
- switch** 87:19 141:14 225:16
- sworn** 26:23
- synergy** 164:13
- syntax** 156:25
- synthetic** 113:20 139:20
- system** 25:24 85:3 109:19,20
110:15 111:23 112:2 121:5
157:20 170:13
- systems** 109:11 110:9 118:6,18
-
- T**
-
- table** 7:21 8:13 54:23,24 55:4,7
220:13
- tag** 279:5
- takeaway** 123:3
- takeaways** 122:17
- takes** 38:20 39:2 42:9,14,15
104:5 108:4 137:11 140:1 146:21
196:3 246:13 251:5 268:11
278:17,18 279:2
- taking** 6:2 19:5 45:5 75:7 115:13
189:25 202:2,3 246:18 249:13
288:20,21
- talk** 15:6 19:7 24:3 37:10 40:6
55:21 56:12 58:19 92:6,12 95:1
100:8 110:20 111:1 124:14
161:13 163:5 164:6 165:2 167:15
172:3 175:11 206:9 208:1 218:16
248:9 249:8 282:15 283:12 287:4
- talked** 123:22 170:6 174:2 203:4
258:19
- talking** 6:11 63:15 64:21 94:15
96:9 118:1 119:2,23 157:10
163:6,20 178:3 188:3 204:14,25
206:21 209:10 213:5 218:8 230:3
236:17 248:9 256:24
- talks** 8:14 104:6
- tall** 104:20
- taller** 96:15
- tank** 179:2
- tap** 7:14

- tapped** 160:12
- target** 141:6 182:20
- task** 8:9 43:11,22 45:8 50:18,24 56:4 68:20,25 69:1,8,9,19,20 70:6,7,17,22 71:3,12,17 73:3,15 74:1,5,9,17,22,25 75:7 78:2 81:14 151:6 227:25 228:14 235:17 236:7 237:4,11 238:4,7,12,14,19 245:13 251:4 260:12
- tasking** 15:7,22 16:1 18:8 20:7,9, 11,12 46:16 68:22 153:18 226:11 228:21 286:16
- taskings** 25:2 43:6,14,16 44:4,5, 7,12,14 67:13 68:17 126:21 227:4,15
- tasks** 8:9,14 15:18 17:4 29:2,3,22 43:25 44:1 51:8 71:22 73:11,13, 20,25 75:3 76:17,18,25 77:6 79:6 133:23 163:6 231:23 232:1 235:9
- taught** 82:18
- TC-8** 166:7
- teach** 237:20
- team** 19:11 109:5
- tear** 188:5 203:6
- tear-resistant** 139:21
- Tech** 4:16 80:12 163:24 164:11
- technical** 2:19 31:8 78:8 81:20
- technicality** 258:22
- technically** 31:9,17 202:15 258:21
- technicians** 203:18
- technologies** 15:3 21:15
- technology** 84:2 93:12 96:22
- tells** 100:18 114:11 179:3
- temperatures** 171:3
- temporary** 85:1
- Ten** 66:22
- tend** 269:14
- tender** 265:2 287:11
- tenders** 45:20 264:17
- term** 246:12,21 247:19
- Terminal** 117:4 225:15
- Terminel** 2:15 10:21 33:11 53:19,22,24 54:2,5 55:11 59:13 60:7,10 96:25 100:25 101:17 117:4,14 187:6 188:8,22,25 212:16 215:6,12 216:8 233:25 234:2,13 235:1 237:6,8 283:18,22 287:3,10,12,18
- terminology** 250:8
- terms** 35:19 220:20 248:2 257:19,23
- territorial** 256:12 258:5,6,9
- test** 63:10 80:14 85:14,19 112:12 128:3 132:4,10 136:21,23 137:7, 11,15 155:3 170:12,14,16 187:22 212:21,24 213:14,15,16,19 215:3
- tested** 105:24 106:2 152:12 215:10
- testing** 21:21 64:4 105:21 119:7 132:6,13 142:20 145:10 152:8,10 154:18,24 155:5 158:5 212:21 213:10 215:4,19 228:19 231:22
- tests** 62:15 64:9 156:9 168:5 187:21 213:24 214:4,8,9,14 223:18
- Texas** 9:3
- text** 121:16 213:4
- texted** 96:16
- that'll** 132:2 138:6 163:3
- Theiler** 2:9 10:24 76:21 133:16, 20,23 140:15,16 158:21 191:16 193:4 243:22 247:23 248:1 249:18,24 250:7,21 280:5 288:12
- themes** 245:22
- theoretically** 129:2 255:4,8,9
- there'd** 32:21
- there'll** 100:5 231:23
- there're** 93:10
- thing** 24:21 26:1 30:7 47:13 84:17 85:14,23 86:7 89:5 92:11 94:22 98:7,18 102:16 108:18 109:18 110:22 114:9 117:10 120:8 122:24 123:3,15 132:19 134:20 135:16 137:18 139:11 142:18 148:14 160:19 171:23 179:8 180:6 194:17 195:7,13 196:15 197:10 200:24 202:14 206:17 214:11 224:14 252:4 258:19 287:15
- things** 5:24,25 6:12 15:20 26:4 38:14,25 41:21 46:24 52:1 55:21 56:12,18 60:23 73:5 81:20 91:4 96:22 97:18 99:4 110:7 117:9 120:15 127:13,21 134:11 135:2 136:19 138:20 142:17 152:4 154:8 157:24 159:1,6 166:1,10 174:17 175:15 176:21,22 178:21 182:16 183:16 184:9 187:12 192:25 193:13 200:18 202:25 203:15 204:24 205:4,16,18,20,24 206:2,12,25 207:13 208:16 210:11 211:1 215:3 220:22 221:18 222:2 223:13,17 232:14 237:21 239:19 243:3 248:24 254:7 262:1 272:20 273:11 287:13
- thinking** 31:21 119:13 173:15 176:3 204:24 220:10 236:19 241:5 249:10 254:12
- thinks** 208:7
- third-party** 58:17 133:3 160:11 174:3 177:13 214:3
- Thirdly** 156:25
- thirty** 140:16
- Thomas** 2:14 10:10
- thought** 44:6,22 82:15 105:4 119:4 122:25 156:13
- thoughts** 4:21 26:7 37:4 72:14 124:6 155:14 227:9 247:18 285:17,18,22,23
- thousand** 140:17 282:18
- thousands** 157:11 169:24
- threshold** 273:18
- thresholds** 273:23
- throats** 117:1
- throw** 72:20 108:21 244:10 280:22
- throwing** 282:1
- Thursday** 56:11 78:3 225:1 285:3 288:5
- tides** 257:12
- tied** 75:3

ties 58:11
til 33:12
till 225:1 247:9
time 6:3 8:20 13:9 14:9 19:21
 20:2,5,11,14,15 23:24 25:4,5,6,7,
 11 26:15,16,18,24 27:2 28:19
 30:11 34:2 38:9 39:1 47:17 48:17
 49:6,9 50:5 54:24 55:1,17 60:25
 61:17 62:3,10 73:2,5 77:2,10,25
 78:4,12,15 85:6 86:22 94:24
 96:23 102:7 106:9 107:1,15
 115:22 124:3 137:23 149:11
 154:25 156:7 158:25 161:25
 162:6,7 163:7,8 169:8 177:25
 179:9 183:1 189:16,25 195:11
 197:14,15 206:5,25 207:21 216:3
 227:1,9,14 229:10 242:11 243:1
 247:1 248:5 261:23 270:19
 275:16 276:9 278:18 286:11
timeline 77:13
timelines 47:2
timely 140:25 245:18 276:12
times 42:21 54:9 60:23 66:14
 84:14 85:20 103:2,20 106:20
 110:1 119:20 156:20 174:21
 187:19 192:17 195:1 201:4
 202:20 212:20,21,25 221:16
 249:8 258:4 279:14
timing 50:9 163:11
tiny 182:8
tip 78:20
today 8:8 11:15 22:25 24:18
 26:11 32:10 44:15 76:19 79:19
 80:6 115:19 124:24 125:7,17,19
 158:24 159:7 163:19 165:1 183:6
 229:4 286:11,23 288:3
today's 23:6
token 50:7
told 80:4 106:14
Tom 36:8 41:16 42:1 51:3 65:22,
 23 211:16 267:23 269:3 274:12,
 15
Tom's 275:6
tomorrow 122:14 154:5 158:14
 227:5 257:25 258:13 285:2
 286:10,25 288:2 289:5
ton 145:18 148:2,6,24 149:2,6,11
 159:3
tonnage 148:7,11,23 149:8
 151:22 155:7
tons 69:6,13,24 70:12 71:7
 126:10 130:1 143:22 147:10
 151:10 159:19 160:4,9 229:2,3
 236:1 239:5 250:10,16,20 253:10
 256:2 259:14 263:23 264:7
tool 100:18 101:8 109:12 119:11,
 13 123:2 172:6 178:25
tools 109:13
top 107:6 202:3 218:1 228:2
 256:17 287:7
topic 7:8 56:15 58:8,14 64:2,22
 65:2 80:25 109:3 164:7 201:17
 238:1,3 239:1 271:2,4,7
topic's 89:16
topics 23:18 24:3 37:13 42:4
 56:1 68:14 81:24 107:19 116:23
 119:2 270:19,21 286:15,16
Torre 2:24 11:4,5 15:13 166:5
 227:3,12,18 230:4,7,12,15 231:6,
 15 232:3,12 233:5 234:12,14
 235:2,11,20,22 236:15,24 237:25
 242:17 245:21 247:2,4 249:16,21,
 25 250:19 252:5,9,18 253:4,22
 255:17 259:4,9,21 260:3,10,25
 261:8,10,14,17 262:3,6,13
 263:15,19 264:4,12,15 265:5,25
 266:9 268:5 270:10 273:2,5,8,10,
 20 276:14,20 277:8,13,16,19,23
 278:3,7
total 144:10,11,13 147:14 151:18
 153:17 228:5 229:10,14,21
 230:13 231:9,10 232:16 234:20
totally 65:17 196:4 236:21
touch 43:5 126:20 149:17 151:5
 228:13
touched 83:14
touches 88:15
touching 134:1
Tow 50:14,25
towing 5:22 42:12 67:18 130:9
 243:4,5,6
Town 10:16
TPO 58:16 59:13,25 65:2,3
TPOS 58:18 214:2
trace 224:8
track 96:20
trade-in 177:12,16,21,24
traditionally 48:12
traffic 13:6 98:15,20
train 245:23 281:16
trained 26:3 64:7 172:7 180:6,17
trainer 10:5
training 56:20 57:23 63:19,21
 65:2 126:7 128:6 132:24 135:23
 144:22 151:25 152:1 172:5 178:9,
 10,12 180:20 236:5,14 237:2
 248:15,24 270:20 281:24 282:2
 283:23,24
training's 136:5
transcript 290:7
transcription 6:22 8:6
transfer 59:7 121:25 190:4
transmit 98:18
transmitters 104:11
transmitting 106:9
transparency 18:8 44:18 51:20
 59:11 64:21 74:21 185:4
transparent 23:16 47:21 50:7
 51:20 53:13,14
Transport 172:13,14,20 173:11
transportation 70:2 253:13
travel 5:9
trawlers 9:16 21:14
treacherous 90:5
treatment 276:22
treaty 161:7,8
tremendous 76:23
trend 268:17
trending 232:9,13
trends 265:16
Trevor 3:2 191:19 192:4

tricks 268:13
Trident 12:2 280:22 283:2
trip 281:5
tropics 195:18
trouble 110:24 197:3
troubleshoot 121:5
true 290:7,12
trustee 29:8
TSA 128:15,23
Tuesday 4:3 285:16
tuna 160:6 161:7
Tuntutuliak 156:14
turn 6:11 76:7 102:22 158:13
Turner 2:10 9:18 272:9,17
 278:22 289:7
turns 94:7
tusk 126:20
twenty 33:23 89:14 95:24 229:9
Twenty-eight 230:6
TWIC 70:4,16 125:22 128:13,14,
 17,19,22,24,25 129:4,8,14,15,17,
 18,21,23 130:2,8,11,14,16,19
 131:2,15,24 134:10 153:2,3,7
 253:20 254:9,17 256:5
two-and-a-half 163:24 208:13,
 15
two-year 177:9 196:20 197:5
 204:25 206:23 209:21
Tylenol 198:21
type 62:24 99:4 123:15 141:14
 152:9 153:5 165:2 167:15,16,23
 168:2,23 171:20 176:25 182:3,20
 189:3,12 193:24 194:12 213:5,7
 272:19 279:11
Typeapproval 219:8
Typeapproval@uscg.mil
 184:20
types 17:25 130:3,9 153:19
 264:11
typically 19:20 24:18 37:13
 38:18 61:10 141:4 251:11

typo 230:16

U

U.S. 12:8 18:25 69:11,14 70:21,
 23 84:9 89:5 116:23,24,25 121:22
 135:7,9,12,13 140:11 154:11
 155:20,23
UK 168:14 221:19
UL 212:18 214:9
ultimately 17:11,15 19:14 49:7
 75:4 127:10 226:16 239:20,24
 240:9 244:10 245:7 247:1 251:2
 276:7 280:8
un 20:20 166:10 193:9
unable 14:18 92:18
unanimous 289:10
unapproved 110:8
unclog 99:5
uncorrected 140:12
undamaged 228:6
undergo 211:24
undergraduate 163:23
underneath 114:6 166:20
 167:11,12
understand 15:19 51:7 78:13
 128:18 130:12 137:18 152:20
 156:19,21 157:24 158:23 198:24
 209:9 255:4,14 268:14
understandable 158:9
understanding 31:20 49:15
 52:13 125:21 126:18,24 131:6
 159:5 204:22 256:18 258:2 284:4
understands 160:15
understood 54:17 67:9 227:15
 245:24 280:24
underway 181:18,19 182:2
underwriter 10:19
undocumented 154:10
UNIDENTIFIED 28:15 32:7 34:8
 35:1 76:12 95:9 101:3 113:3
 120:9 124:18 211:7 215:18
 219:20 230:6,13 235:19,21 261:7
 264:21 277:6,21 282:25 283:19

285:15
unified 18:23 19:1 37:16 39:10
uninspect 263:23
uninspected 70:14 126:6
 129:25 143:19,21 150:5,23 256:4
unintended 50:6 61:18
Union 168:14 221:8
unit 12:18 112:12 165:15 193:17
unit's 184:7
United 21:25 22:5 42:21 71:21
 127:20 131:9 140:17 174:5
 221:19
units 131:10
UNKNOWN 155:25
unlicensed 160:2
unlike 16:4 169:21
unlimited 150:19,22
unnecessarily 170:15
unprogram 103:24
unsafe 191:24
unserviced 190:15
upcoming 14:20
update 37:13 38:3 43:5,15 44:11
 45:10 95:16 115:19 138:21 228:3
updated 44:17 48:11 54:16
updates 25:1 30:13 37:9
upward 248:11
US's 172:15
usage 71:11 259:17
USB 186:21
USCG 7:25 11:17
useless 140:22
user 84:16
usual 283:16
utilize 136:2 226:22

V

vacancies 142:14

- vacate** 84:21
- vacuum** 178:16,17 179:6 261:9
- valid** 69:14 129:18 130:8 131:2
136:24 137:16 139:14 144:19
149:22 151:10 153:7 239:6
268:24
- validate** 231:14
- valise** 178:14
- Vane** 203:14
- Vargas** 2:11 9:14 118:4,5,15,17
284:16
- varies** 276:9
- vendor** 282:7
- verb** 72:25
- verbiage** 51:16,17 250:23
- verbs** 251:21
- verified** 167:25
- verify** 231:17
- versa** 282:8
- version** 53:6
- versus** 190:15 194:21 209:17
222:18 229:2 232:8,15
- vessel** 1:1 4:2 5:16,17 9:4,8,24
10:8 11:23 12:1,12 13:6 14:14
18:11 20:25 27:13 41:3,8 50:14,
25 56:9 59:18 60:16 61:3 62:24
64:1,8,17,24 65:7,8 66:10,17
69:13,23 70:10 71:1,5 94:3
103:25 148:8 149:20,24 150:5,11
151:9 154:21 155:6,9 165:7
166:15 167:4,25 169:17,20,21
171:16 177:21 178:6 185:10
193:23,25 194:14 195:24 199:10
202:22 216:24 221:4 224:13,16,
20 235:15 239:5 243:5 251:12,14
253:8 255:6,24 256:1 259:12
262:2 263:12 272:19 273:15
277:2 282:3 290:9
- vessel-type** 279:21
- vessels** 5:22,23 13:8 17:24 18:10
20:23 42:12 45:17,22,23 57:16
58:6 60:22 69:5,17,23 70:11,15
71:7 81:5 101:5,17 105:6 118:1
123:8,9 126:6,9,11,12,13,14,17,
19 129:19,21,25 130:3,4,6,10
131:1 143:20,21 147:10,11,12
148:9,24,25 149:16,17,18 150:8,
14,21,23,25 151:3,12,18,22 152:5
153:6 154:9 156:6,11 160:6,16,17
169:5 170:7 180:25 181:17,23
182:19 188:12,13 191:9 192:1
193:14 202:15 207:6 216:21,23
220:1 221:3 228:6 229:1,2 232:23
233:6 234:21 235:25 239:8
241:15 243:4,7,8,10 245:20 253:9
254:24 255:20 256:4 259:13
261:23 263:18,21 264:1,3,5,7,16,
20 265:2 268:23 281:11 282:16,
19
- VETERANS** 1:23
- vetted** 30:6
- vetting** 50:16,19,25
- VHF** 81:11 85:15 87:12 104:12
106:6 119:17 120:20
- viable** 255:10
- vice** 2:4 4:11 7:5 10:2 30:15,16,
18,24 31:7,13,15 32:1,16 33:5
34:6 35:4,7 36:13,22 40:2 45:7
46:5,18 47:23 49:14 50:13 51:4
52:16,20 53:17 54:21 55:5,9,12,
13 67:16 72:24 73:12 74:4,8,13,
15 91:9 95:11,23 96:2,4 102:10
105:11,17 106:10,22 110:4 113:1
115:21 116:1 117:18 120:10
129:1 144:6 148:1,4 162:5,20
186:14,17 190:12,20 201:20
202:1 208:2 215:11,15 216:10
217:15 222:15,17 223:5,22
224:22 226:9 233:2 253:1 258:23
266:5 269:4 276:18 277:10,14
279:19 282:8 283:8 284:21
285:18,23 287:9,11,20 289:1
- Vietnamese** 157:6
- view** 40:24 100:15 252:11
- viewed** 18:23
- viewing** 178:15
- viewpoint** 75:8
- viewpoints** 75:12 242:1
- Viking** 169:9,25 172:9 178:2
180:19 184:4 197:10,23 208:6,10
- villages** 21:19
- violation** 112:24
- Virginia** 11:18 83:3 84:20 88:4
- virtual** 113:19
- virtually** 140:22
- vision** 140:12
- visit** 109:9 214:25
- visits** 58:16 65:3 161:14
- visual** 128:11
- visually** 171:6
- voice** 75:14 88:19 100:2 110:25
231:4
- VOL** 1:13
- volume** 76:23 77:13
- voluminous** 77:19
- voluntary** 43:19 44:3,9 45:9
105:19 166:9 233:11 244:21
246:9,22 247:9,11,21 248:21,23
- vote** 34:5 35:11 53:24 74:5 76:1,
19 77:5
- vote's** 76:2
- votes** 73:13
- voting** 29:14
- voyage** 281:5
- voyages** 130:7
- VR** 178:9
- VSC** 88:1
- VTS** 83:8
- vu** 260:8
-
- W**
-
- wait** 33:12 59:20 73:7 226:8
- waiting** 143:7 177:25 227:20
- waiver** 81:5,7
- waivers** 138:14 188:19,25
198:11
- walk** 162:14
- Walter** 2:23 12:13
- wanted** 20:7 24:13,16 35:10
37:21 40:2 47:18,20 53:4 54:1,6
56:14 108:13 116:16 139:24
143:17 151:2 152:18 153:20
158:14 161:16 163:21 219:15,24

- 220:5 225:20 228:10,12 231:20
237:12,17 275:10 277:4 282:15
284:1
- wanting** 129:20
- warnings** 86:20
- Washington** 9:15,19 197:16
- watch** 13:4 88:8 90:7 146:17
214:4,8,25 215:2,3
- water** 82:4 84:16 90:6 91:5,7
99:20 101:13 102:15 119:18
121:23,24 144:9 171:9 195:19
205:21 221:22,23 256:11 257:21
- water-paper** 139:21
- waterline** 258:8
- waters** 62:24 82:10 90:5 147:15
151:20 152:16 256:19
- waves** 93:24
- ways** 41:5 98:24 103:16 118:1
236:4 238:10 240:18
- wear** 102:4 203:6
- weather** 81:9 86:19 87:1 114:10,
15,17 248:18
- web** 6:22 7:23,24 8:4,11 25:12
37:12 51:25 54:7 57:4,20 63:14
68:19,22,24 71:24 115:15,20
121:20 122:19,22 183:24 275:5
- website** 44:7,23 85:15 97:1
103:5 107:6,20 115:14 145:17
159:1,4 184:7 224:2
- websites** 112:10 145:1
- Wednesday** 288:5
- weeds** 92:24
- week** 24:2 97:20 109:10 158:11
159:9 183:12 185:20 225:8
228:16
- weigh** 78:17 79:24
- weighed** 19:15
- weighing** 60:14
- weird** 81:20 167:19
- Wendland** 2:18 5:4,14 6:25 7:7
11:1 13:17,21 24:4 28:18 30:4,21
31:11,20 32:2 35:2,19 36:10,25
37:7 38:11 40:23 41:16 43:3
45:12 46:9,19 48:8 51:24 52:19
- 53:21,23,25 54:3,6 55:15,24
59:22 60:9,13 62:4 67:1,8,23 68:3
70:6 72:4,6,11,17 73:1,10,18
74:7,10,14,20 75:19 76:6,11,15
77:4 78:19 115:10 118:13,16
122:15 124:21 125:5 159:14,23
162:12,18 163:1,17 164:1 216:19
220:11 225:11,15,20 226:10,14,
25 230:23,25 250:24 251:10
257:7 258:20 272:13 273:17,22
274:3,24 275:15 279:5 284:24
285:5 286:8 287:25 288:16
- West** 84:19 86:17 88:10 104:16
- wet** 196:5 264:21
- whack** 227:5
- whatnot** 25:20 68:11 254:15
- whatsoever** 198:18
- wheelhouse** 202:4
- wheels** 246:1
- white** 60:15
- who've** 203:5
- whoever's** 161:10 190:2
- Whoo** 163:25
- wide** 22:14 64:25
- Wilwert** 11:21,22 287:4
- window** 178:15
- windows** 82:14
- winds** 114:12
- wiped** 207:24
- wiper** 250:18,23
- wiper's** 250:13
- wise** 74:4 235:14
- wishes** 165:9 280:16
- withdraw** 36:5,8
- withhold** 59:15
- wondered** 121:9
- wondering** 92:21 203:8 220:25
222:23
- word** 45:16 72:20,21 167:16
195:16 223:3 238:5,18 249:8
- worded** 250:9
- wording** 250:14
- words** 142:10 261:7,8 263:2
- wordy** 115:9
- work** 5:14 10:17 11:9,12 15:21,25
16:1,24 20:9,10 39:14 46:3 47:24
48:14 49:22 50:9 53:16 60:1 61:9,
17,20 80:2,18,20,22 81:6,22
85:21,22 89:3,12 93:22 98:23
101:22 107:9 109:8 110:11 116:3
118:25 119:15 120:15 126:13
133:4,10 135:8 141:5 143:8
154:21 162:1 165:12,20 166:10
175:22 181:5 184:10 185:9
199:15 211:11 214:22 227:18
237:17 278:11 286:18
- work/rest** 71:15 228:18 259:24
281:2,3,7
- worked** 17:21 19:2 39:15 79:19
82:8 83:7 125:15 147:23 160:21
164:16 203:12 216:6,16
- worker** 70:2 253:13
- working** 48:2 51:8 75:5 84:1 87:3
111:8 123:18 130:3 131:1 149:10
166:5 183:12,13 268:16 284:5
- works** 48:5,12 61:8 120:23
212:25
- workshops** 156:17
- world** 21:7,8,11 116:17 125:10
174:4 190:23 198:20 245:11
281:15
- worldwide** 21:24 166:2 175:6
- worry** 89:13
- worth** 199:9 238:3
- worthy** 147:6
- wrap** 23:22
- wreak** 93:23
- write** 40:19 127:14 179:16
189:11,14,21,22,24 190:1 211:14
237:11 262:24
- writing** 43:25 49:18 61:25 115:13
166:21 179:14
- written** 42:14 156:18 173:12
238:10 257:24 284:13
- written-oral** 237:14
- wrong** 156:23 157:1 168:23

187:9 215:7 249:25 250:4 262:1
265:22 274:24

wrote 50:5 179:10

ZOLEO 120:9

zone 69:25 70:13 85:13 253:11
256:3

X

XI 49:2 53:8

Y

Yeap 32:2

year 29:3 30:25 31:3,14,16,23,24
32:5,6 33:22,24 34:4,7,24 35:3,
14,21 36:3,19,23 42:21 47:20
58:15 65:4 83:25 106:5 110:1
135:1 136:24 137:8 138:21 143:5
144:18 170:13,14 173:8 174:11
186:1,14 194:21 199:13 200:17
203:5 204:9 205:17 206:14,19
207:2 209:9,10,17 214:12 218:8
226:6 233:19

yearly 138:18 205:5

years 42:10,22 48:11 52:23 66:7,
15,16,18,22 81:25 88:7 89:19
94:10,15 99:17 102:6 113:16
125:14 137:8,14 139:1,3,14 141:3
143:3 144:3 157:6 160:8 161:3
164:18 169:8,10 170:1,18,19
171:12 173:3,4 174:9,23 175:5,20
176:14 182:15,18 186:10 188:17
190:16 194:22 195:3 198:25
199:3,19 203:7 205:6 206:2,13
207:12,16 208:14,15 209:10,17
210:9,15 211:8,10 214:18 216:17
229:23 232:8,9 245:2,4 246:5
260:16,22,23 263:14 265:4
282:11 284:4,6,10,14,17,18

years' 134:25

yeas 172:24

yellow 191:12 256:25

yields 174:7

young 120:18 156:16

Yupik 156:15

Yurkovich 218:19

Z

zip 58:11