

1 NATIONAL TRANSPORTATION SAFETY BOARD
2 VERBATIM TRANSCRIPT OF INTERVIEW WITH
3 QC
4 STS1(SS) EDWARD W. McGiboney
5

6 CONDUCTED AT COMMANDER, SUBMARINE SQUADRON 1 CONFERENCE ROOM,
7 822 CLARK STREET, BUILDING 661, PEARL HARBOR, HAWAII
8

9 ON 14 FEBRUARY 2001
10

11 MR. ROTH-ROFFY: Please, for the record state your name.
12

13 WIT: Petty Officer McGiboney.
14

15 MR. ROTH-ROFFY: Thank you. Good afternoon, Petty Officer
16 McGiboney, my name is Tom Roth-Roffy and I'm with the National
17 Transportation Safety Board. I and several other safety board
18 investigators are here to investigate the accident that occurred
19 between the USS GREENEVILLE and the fishing vessel the Ehime
20 Maru on February 9, 2001. Also joining in today's interviewing
21 will be representatives of the U.S. Coast Guard and the U.S.
22 Navy. For your information the National Transportation Safety
23 Board is an independent federal agency responsible for
24 investigating transportation accidents in the U.S. Safety
25 boards Office of Marine Safety, which I work, investigates major
26 marine accidents. The purpose of the National Transportation
27 Safety Boards investigation is to determine the cause of
28 accidents and then to make safety recommendations aimed at
29 preventing the re-occurrence of a similar accident. In our
30 investigation we make no effort to assign blame to any person or
31 party. That is not the purpose of our investigation, nor do we
32 have any legal authority to penalize any person involved in an
33 accident. Our investigation is strictly a safety investigation
34 and not a legal investigation. If you desire, you may have
35 another person assist you during this interview. Would you like
36 to have somebody assist you or you feel you are able to make it
37 through on your own?
38

39 WIT: I think I can make it through on my own. Of course the
40 logs will help with bearings and contact numbers.
41

42 MR. ROTH-ROFFY: Okay, as I mentioned also joining me in this
43 interview will those--will be those seated around the table. I
44 would like to ask each of them to introduce themselves at this
45 time.
46

47 MR. WOODY: I'm Bill Woody from NTSB.

1
2 LT JOHNSON: I'm LT Charlie Johnson from the U.S. Coast Guard.
3
4 CAPT KYLE: CAPT Tom Kyle from the U.S. Navy.
5
6 LTJG KUSANO: LTJG Ken Kusano, U.S. Coast Guard.
7
8 MR. ROTH-ROFFY: Okay, we have two others that are from the U.S.
9 Navy that will probably be coming in a little bit later. I
10 believe they went to get the sonar logs.
11
12 CAPT KYLE: It would be CDR John Caccivio and CDR Rich
13 Santomauro.
14
15 MR. ROTH-ROFFY: What I would like to do now is to ask you to
16 think about what happened on Friday morning when you reported to
17 the vessel and prepared to get underway. And I would like you
18 to describe as best you can in as much detail as to what
19 happened from the time the vessel left the pier, got underway,
20 until some period of time after the collision occurred. I don't
21 know how far. We will let you just keep talking and we'll stop
22 you when we think we have enough, but again--try to visualize
23 and just describe from your memory as best you can with as many
24 details as you can everything that happened to you from the time
25 the vessel got underway. And I would like the interviewers not
26 to interrupt you until you have completed your telling the whole
27 story.
28
29 WIT: Okay. Friday morning I started--I was actually on duty
30 the day before as duty chief. We had got up and were getting
31 our last minute preps for getting ready to go to sea. Ahh--
32 making sure the signs were off the side of the boat, floats were
33 out of the water, brow banners come down. We get everything
34 ready so we can get to the maneuvering watch and we can get
35 ready to leave. Once I get to that point or completed to that
36 point, I turn over aft maneuver to that watch with the control
37 supervisor as in that aspect. Then I kind of go back into the
38 sonar realm where I work. Get last minute things done for the
39 maneuvering watch. I'm a line one supervisor so I just change
40 shoes to get on topsiders to head topside. We stand there
41 waiting for any guests to come on board, any last minute things
42 that need to be done, then we lift off the brow. We got
43 underway. We stayed topside for a while so guests could take
44 pictures as we departed the channel. For short spells when we
45 are going out for a short spell where our line handlers are on
46 the pier, we don't single up lines. We just go ahead and drop
47 off the lines and let them go. We got them down, as you can

1 see, kind of the mouth as we were leaving. Do all the normal
2 sound quieting things we are suppose to do. Get down below and
3 take all of our stuff with us. From that point I went pretty
4 much up to sonar to where I was going to help out with the tours
5 as they were coming through. Kind of let whoever is in there
6 kind of keep one's focus on what is going on. I did that from--
7 I would say from approximately nine or nine-thirty-ish--
8 somewhere in there to just before eleven-thirty when they were
9 going to have lunch. Had lunch, came up--that is when we were
10 getting ready to do--I guess I want to say about thirty minutes
11 to an hour--I'm guessing before we started our angles and
12 dangles. You make a--kind of just a quick look through the
13 shack to make sure nothing is going to fall down so in case you
14 are going to have somebody that is going to sit in some of the
15 areas around. And then you are watching to see what happens on
16 your displays. While I am sitting there we had my broadband
17 operator, workload share operator, and the guy kind of watching
18 him who was kind of an over instruction because we are training
19 him as well. At that time I don't think there was any other
20 people in there for the angles and dangles. Most of the other
21 guests or anybody else on the boat were either probably in GSES
22 or the front end of the boat on the very top, control space or
23 electronic space or other places--control, the mess decks, not
24 in sonar at that time. We finished angles and dangles and we
25 wanted to get steady course so we could get our contacts at
26 least three to five minute delay of bearing data so we could get
27 that information out to fire control. I had two contacts
28 roughly up to the north. I'm thinking they were sierra 12 and
29 13----

30
31 CAPT KYLE: Still working on the log, sir.

32
33 WIT: Okay. I'll get a little better on that one here when we
34 get those. And I had one out towards I believe the west at that
35 point, which should have been an opening contact. We took a leg
36 of data and then we did our baffle clear, we came right--I have
37 to do a little reconstruct data--I think it was around course
38 one-two-zero, but I am not absolutely positive on that. We did
39 come right. I know we didn't come 120 degrees, I'm just not sure
40 exactly start yet. I have to see a little--some logs. Did a
41 baffle clear, we did not pick up anybody new during the baffle
42 clear. The operator is going to focus on the area that we had
43 behind us in our baffles. I'm sure you guys understand what the
44 baffles are. We looked behind us to make sure there was nobody
45 there and at that point we are getting ready to do our preps for
46 PD--our open mikes energized, we are kind of listening to what
47 is going on, we are waiting for the word to go to periscope

1 depth. With indications on the screen on that time I didn't
2 have anybody apparent that would have been close. Some of the
3 things I am looking for as a supervisor is something with a very
4 high bearing rate, something that may be on our left side
5 drawing right, or right side drawing left. It would indicate
6 that it could be a closing situation. I'm looking for multiple
7 pass perception on the source sphere. You have eight DEs that
8 we look at or depress in elevations. In eight windows on each
9 stack, so if I see sound coming in two and three it doesn't tell
10 you he is far away it just has a better indication he is
11 probably more distant than close depending on how loud he is.
12 If he is in all eight DEs he has a better chance to be close
13 than a guy that is in two. So, that is some of the things that
14 I am looking for. I'm looking for anything that comes on my
15 WLR-9 physical interceptor that can pick up active bottom
16 sounders, fish finders, anything that could also indicate
17 something close. It can pick up cavitations sometimes depending
18 on aspect of how fast the contact is going. We finished our
19 baffle clear--no contacts out of that baffled area so still
20 basically had the two up towards the north and one that was out
21 toward the west, which we had put in the baffles--it was like I
22 said, I think it was an opening contact--it was out in that
23 direction. I believe we turned right, but I'm not sure what
24 course we came to. We were coming right a little bit as we
25 ascended to periscope depth. On the ascent to periscope depth,
26 we were going to change our displays a little bit because we
27 wanted a longer short time history to watch for any type of
28 transient noise--anything that may be different, a quick change
29 of a bearing rate of a contact--something that is unexpected
30 from where--from what we just had; something that is beyond the
31 normal. A longer short time history lets you identify something
32 that shows up like that--a little bit better on your ascent to
33 periscope depth. We came up to periscope depth as soon as they
34 go up they do--I'm not sure how many sweeps off the top of my
35 head--I know we do a few--do a couple of safety sweeps to make
36 sure there is no close contacts. Once we have no close
37 contacts, we change our display back from a two time history, a
38 short and intermediate time, back to a three-time history. At
39 that point you are not looking for that little short burst of
40 something that may be out there. Did the back to three-time
41 history and no close contacts. I heard that we were coming up
42 higher in the water--I'm not sure exactly how high, I just heard
43 that we were coming up a little bit--depth, I don't know. I
44 heard two different people on the scopes through the open mike--
45 I believe one was the Captain. I do not know who the other one
46 was. I don't know who was doing the sweeps. As soon as they
47 did their visuals, they got ready to proceed back down to 400

1 feet. One of the quicker ways to do that is to use emergency
2 deep where the chief of the watch is going to flood in water
3 rapidly to get down to that depth. We did that. They called
4 emergency deep out. We went down to 400 feet. I believe we
5 turned back a little--I'm not sure how far back towards the
6 left--back towards the east to when they commenced the emergency
7 blow on the ballast tank which emergency surface and on that we
8 should have steadied up on course with the rudder amidships to
9 go up for the ascent. During ascent you are not going to hear
10 much during the emergency blow because once you initiate the
11 switches, or on the descent down it can also mask you a little
12 bit--not as much as the blow, because when you are flooding on
13 rapid water it is going to see all that noise out to the sphere.
14 It is going kind of--not totally mask everything with the
15 flooding of water, but when you do the blow it is sending all
16 that air into the air banks. So during the initial movement of
17 air it is going to blank out that screen for the initial lift.
18 Once it kind of settles, the air is in place and it is kind of
19 going out the sides, it is not going to blanket as much, but it
20 still a little difficult to see. Once you start coming up on
21 the blow if I see something--like I said--once again on
22 periscope approach it is an indication that something is very
23 close, multiple capacity DE--a nine going off--something that
24 alerts me that something is close I call close aboard contact.
25 That lets the conn know right away there is somebody very close.
26 Somebody has a chance of hitting us in some fashion. They do
27 the ash--I'll tell them the bearing of close aboard contact--
28 where he's at. As we lifted through the water I remember
29 hearing--I think it was over the LMC--talking about the angle of
30 the ship, how high the bow would be compared to the rudder and
31 right before the hit I remember hearing as we are coming up you
32 should feel the boat start to ascend up through the water,
33 you'll feel kind of a light feeling like a--I don't think he
34 said a roller coaster, but he explained the procedure of going
35 through the water. That is when I kind of felt the boat kind of
36 angle forward just a little bit and then--I mean, as soon as you
37 felt the angle a little bit there was a thud. I couldn't figure
38 out where it was coming from at first until we finally got up on
39 surface and you heard a second thud that came from further back.
40 At that point when you had a--I don't know it is kind of like
41 when you hear a shotgun somewhere you kind of know it is a
42 shotgun, but you can't tell where it is from but when you get
43 the second shotgun blast you know it is something. At that
44 point, I was very confident we hit something. I glanced back
45 down at my displays to see if I still had three traces. I did
46 look down to see if I had three traces. I did see that just as
47 another supervisor was coming up. We had three traces. I

1 looked and verified through my other DEs just to make sure
2 nothing was there that I couldn't see or have seen or missed.
3 Nothing indicated any change of bearing rate, nothing indicated
4 on the left drawing right, nothing--no fish finders from the
5 nine. At that point I presumed this dive that we had hit had
6 been sitting still in the water because we did not have anything
7 from him that I could tell based on what I was seeing on my
8 display. At that point I turned over to the other supervisor
9 cause I heard that we were steady on depth or holding depth--
10 that means we weren't sinking. At that point I felt confident
11 with another senior supervisor here is what I've got, this is
12 what's happened, the reason I was turning over is our First
13 Lieutenant was looking for this tour--which is kind of like one
14 of the safety guys. January or excuse me, February of this past
15 year, not this year, I turned over to another guy. I was
16 previously a First Lieutenant so I knew what the safety gear
17 was, I knew where the ladders were, the life rings and man
18 overboard bags, everything that was needed. I knew at that
19 point that my better help would be to get that stuff moving.
20 Because I didn't know who could have done it at that point. So
21 I kind of shifted from sonar once I thought I had my contacts
22 back in ATF, the turnover was done, we were holding, that is
23 when I took off for all the safety gear. The first thing I went
24 to get out of the fan room was the ladder we hang out of the
25 sail. It hadn't been gotten out yet so I grabbed that with the
26 clips we clip it up to the sail so if we needed to go over--kind
27 of with glance--in passing going to get this ladder I could see
28 the perivise, I could see the water and I knew that with how it
29 was we probably weren't going to bring anybody into our escape
30 trunk. It was over the deck, so that means the sail that is why
31 I went for the ladder. I put that up there, we got a life ring
32 up there. By the time I was getting ready to go down to get
33 that forward escape trunk ready, if necessary, the divers were
34 in place in the upper level in control, outside the Captains
35 state room. They were--I think there was three if I remember
36 right, ready to go. We had set up in a sail for them and that
37 is when I went down to ensure we had people dressed out to go
38 topside if needed as well as get what we call a bathtub rigged
39 up in the athwartships passageway or underneath the escape trunk
40 itself. And what we will do with that is if we do need to go
41 topside, and we are taking water over the side, it will at least
42 take that water to a point and if it is too much it is still
43 going to come out of it a little bit, but it is designed to take
44 it down into the machinery room through basically a big funnel
45 and it is going to take it down there. If you are taking too
46 much it is still going to come out and go over. At that point
47 once I felt the safety gear was at least in place, the gear was

1 out, we had people dressed out, I knew divers were ready, I went
2 back up to sonar to see what I could do up there.

3

4 MR. ROTH-ROFFY: Go on, once you got back up to sonar anything
5 else significant happen while you were up there?

6

7 WIT: By the time I got back up to sonar they had already
8 regained--the ship itself I believe at that point, which was by
9 then sinking through the water, I probably could probably look
10 here a few seconds, but I think it was sierra 16--I think was
11 the number what they designated the part that actually sank and
12 I was trying just trying to get a feel for what was going on,
13 but I did not take the watch back over. I was just kind of was
14 in there to see what they needed, if they needed something or if
15 I was going be--go somewhere else.

16

17 MR. ROTH-ROFFY: Okay, I guess that's--we go on and now ask more
18 detailed questions about some of the information you told us and
19 some of the areas we are interested in. Could you go to please
20 describe those two contacts I believe you had initially called
21 sierra 12 and sierra 13 to the north. Could you--by referring
22 to the logs there--verify, provide some additional details on
23 those--those sonar contacts.

24

25 WIT: Do you have other logs to like the regular hand written
26 logs. It would have any information..screw blade

27

28 CAPT KYLE: I'm sorry.

29

30 WIT: We have other logs--the handwritten, they would have more
31 of the screw blade information.

32

33 CAPT KYLE: Where do those logs come from?

34

35 WIT: These right here, sir?

36

37 CAPT KYLE: Are they ARC log?

38

39 WIT: Yes, sir, they come right out of the logger. This would
40 be a little more confusing because it prints all the sonar
41 bearings in relative.

42

43 CAPT KYLE: Here we go. I think these are the sonar logs I'm
44 used to seeing.

45

46 WIT: Yes, sir. That's--Yes, sir. That would be a little
47 easier to understand too. [READING THE SONAR LOGS] Okay, we

1 have both contacts here at 12--sierra 13, initially classified
2 as surface contact just by nature of sound. You can usually
3 listen to them and determine--if it is a submarine it is going
4 to have a different sound than if it is a surface boat, if it is
5 a warship its going to be usually a little bit cleaner, because
6 they keep their screw a little cleaner than just a merchant boat
7 out there. Surface contact they were both up towards the north
8 and 12 is bearing three-three-two at gain and sierra 13 was
9 bearing three-five-seven almost exactly north.

10

11 MR. ROTH-ROFFY: I'm sorry, say that again.

12

13 WIT: The gain bearings of sierra 13 was three-five-seven. We
14 hit the--like I said the only three we had in contact were those
15 three contacts. Sierra 10 was the other one which was more of
16 a--what we consider a light craft due to the screw blade
17 configuration and anything beyond 300 turns per minute we put in
18 a light craft range. It could be something decent sized but the
19 screw blades try to push faster. Usually your merchants or your
20 bigger boats have screw blades that are going to take them
21 through kind of a slower turn count, but they still get to move
22 a decent speed. And we had him towards the southwest.

23

24 MR. ROTH-ROFFY: What was his bearing?

25

26 WIT: Gain bearing is here one-zero--it was two-zero-two was
27 gain bearing.

28

29 CAPT KYLE: Can I interrupt for just a second. Can you tell me
30 the time--gain times of these different contacts.

31

32 WIT: Yes, sir. Gain time on sierra 12 was twenty-two thirty.

33

34 CAPT KYLE: That is the zulu time?

35

36 WIT: Zulu time, yes, sir.

37

38 CAPT KYLE: And what time is that locally.

39

40 WIT: I think it is twelve hours difference--I'm----

41

42 CAPT KYLE: ----Ten thirty--twelve thirty.

43

44 WIT: ----And the other would be twelve-thirty three local time
45 for sierra 13 and that was bearing three-five-seven.

46

1 MR. ROTH-ROFFY: What do you mean by gain bearings? Is that a
2 relative or is that a true bearing?
3
4 WIT: That is true bearing, sir.
5
6 CAPT KYLE: What is sierra tens gain time?
7
8 WIT: Sierra tens gain time--I need to correct the bearing on
9 that one as well. Sierra tens gain time--minus ten would be
10 twenty-one forty--eleven forty nine local time and it was two-
11 six-two was the initial gain bearing.
12
13 CAPT KYLE: What happened to sierra 11? What was he?
14
15 WIT: That was merchant. It was only held for approximately 15
16 minutes and that was towards the bearing of one-one-six.
17
18 CAPT KYLE: And it only held for 15 minutes?
19
20 WIT: That is all I have in the book, sir.
21
22 MR WOODY: Would you give the time on sierra 11?
23
24 WIT: Sierra 11s gain time would have been eleven forty nine
25 local time.
26
27 MR. WOODY: And you held him for how long?
28
29 WIT: It was approximately 15 minutes.
30
31 CAPT KYLE: It faded or into the baffles or what happened to
32 him?
33
34 WIT: Ahh--into the baffles. That would--roughly the same
35 bearing I would assume at that point the course the ship had
36 completed a maneuver of some type.
37
38 MR. Roth-Roffy: Now on these contacts you have bearings, do you
39 also have ranges for these contacts?
40
41 WIT: Ahh, we don't get the ranges right away by sonar--we do
42 our mental geometry's. We look at our DEs and if anything is
43 greater than like negative 13 downward showing up in our display
44 we can get a DE bottom bounce range to a contact see how far he
45 is. You can kind of do screw blade ranges on a contact to see
46 when a ship--when you change course--how do I explain this? You
47 have a line of sight with a contact. He'll be on certain

1 bearing, he'll be on a certain bearing, that will give you
2 certain geometry based on how fast you are going and the angle
3 you presented, how much speed you are putting in or across the
4 line of sight and he'll be doing obviously the same thing.
5 He'll present so much information--speed and across the line of
6 sight. You use that data with bearing rate to figure out what a
7 range may be. Early we had a problem with the bearing rate I
8 had. I had him about 10 to 12 thousand yards based on some
9 geometry. I think later down here--I'll have to find out the
10 times--we started doing maneuvers. I'll have to look in the
11 logs on the time, not for when we did them but when I can see
12 guys be placed with baffles or maybe have to see the
13 quartermaster logs to see where we changed.

14

15 MR. Roth-Roffy: When you say 10 to 12 thousand yard range,
16 which contact are you referring to?

17

18 WIT: Both the contacts I had toward the north. That is my
19 initial----

20

21 MR. Roth-Roffy: They were both in the same range?

22

23 WIT: Approximate same range.

24

25 MR. Roth-Roffy: That's--just to clarify sierra 12 and sierra 13?

26

27 WIT: Sierra 12 and sierra 13. One of the things I was looking
28 for at that time for ranging is I'm watching for--at that time I
29 had full contacts showing up in three of my basically upper DEs--
30 -you get 8 DEs to look at. Anywhere from plus 11 down to
31 negative 53. I see them in three DEs, that is not going to be
32 below my negative 13 to where I can obtain an automatic bottom
33 bounce range. What I'm going to do basically that is take--
34 when it does go below that, I can take that value match that
35 against water depth on the adage or formula and I'll find out
36 what that range is at that point. It didn't get below the
37 negative 13--that is one range I wasn't able--I couldn't use.

38

39 MR. Roth-Roffy: And at what time--or how long did it take for
40 you to obtain this range--rating or estimate or whatever you
41 call it.

42

43 WIT: Ahh--I'd say about five, ten minutes I guess.

44

45 MR. Roth-Roffy: From the time it was gained?

46

47

1 WIT: From the gain-- I--you want to get time for the screen
2 depth HC so you can see some version of a bearing rate plus what
3 you're doing and then you've got to trying to without doing any
4 leg right off the bat assume a course of some type on that
5 contact. In sonar most of the time I'm going to sit there and
6 I'm going to gain--when I gain a contact to me that indicates
7 he's probably closing. You can't go with it every time, but
8 general rule of thumb is we can use a thirty-sixty-ninety rule.
9 You gain it at a thirty degree angle on the bow, sixty degrees
10 later his CPA's, ninety degrees from that is his course. That
11 is kind of a rough--a rough solution for a guide--how we can do
12 that. Then have a lot of factors involved, speed, you are
13 assuming he's closing--a lot of things there.

14
15 MR. Roth-Roffy: And how were contacts sierra 12 and sierra 13
16 classified?

17
18 WIT: It would continue to be logged as a surface contact--
19 [flipping through sonar logs]-- I'm just trying to find out if
20 we had a different classification besides surface. Okay, that
21 looks like--no, all we've got is a surface contact. I don't
22 have any screw blade information on those contacts.

23
24 MR. Roth-Roffy: And why weren't--why don't you have any screw
25 blade information on those contacts?

26
27 WIT: I know we normally cut those to class. I would have to
28 look in the logs. When you first initially gain, you can get
29 screw blade, you may not always get screw blade. I don't think
30 we got it originally from those two contacts--umm--most of the
31 time it does show up. I don't remember seeing it at the times
32 we did cut the contacts. Ahh--I kind of need to know where we
33 started the angles and dangles, cause once you start angles and
34 dangles you want to keep your two stacks--kind of focus a little
35 bit on safety to watch where you're going on bearing rates. We
36 have two stacks in sonar for the busy system and we want to
37 maintain that safety of vessel -- Broadband Operator and the
38 workload share guy who is his backup. Workload share guy is
39 going to analyze contacts as he can. But with driving the boat
40 back and forth--I'm not sure the exact time we started the
41 turns.

42
43 CAPT KYLE: What are you looking for the deck log?

44
45 WIT: Just the time we started angles and dangles.

46
47 CAPT KYLE: Large angles [inaudible--paper rustling].

1
2 WIT: Okay local time twelve thirty. [Looking at the deck log]
3 That was about the time--twenty-two thirty or ten thirty--ten
4 thirty-three, which is already in the notes for gain times for
5 those. We wouldn't have had too many opportunities--I'm pretty
6 sure we cut them both twice, but I would have to check with the
7 workload share operator as well as the guy that was UI'ing him
8 or instructing him. There shortly after my display is going to
9 be pretty much not set so you can always change and look with
10 the angles and dangles. At that point I'm a little concerned
11 about what may just show up. We are traveling at different
12 speed--a higher speed, we are cutting through different parts of
13 the water. I need to see what is coming at me. So, we didn't
14 do that many cuts on that contact. I thought we had a screw
15 blade, but that was on 10 and I believe--let me see what the
16 other one--eleven. Sierra 11 was the merchant, his was ninety-
17 two on a four.

18
19 MR. ROTH-ROFFY: And what about the vibrations from the engines
20 of these contacts, sierra 12 and 13? Were you able to
21 distinguish the----

22
23 WIT: ----between the two?

24
25 MR. ROTH-ROFFY: Yes. What did you actually hear on these--ahh
26 these two contacts?

27
28 WIT: How do I explain this? Ahh--you can tell when a contact is
29 a surface contact based on sometimes you'll have maybe a diesel
30 engine, his type of propulsion, ahh--if you get screw blade,
31 which most of times is the case, just screw blade. That is the
32 noise it is presenting to broad depth. You can kind of hear
33 that in the headphones as you are monitoring the contact. You
34 get an idea of what he is and you get that data out to fire
35 control--as much you can gather from that contact. They both
36 sounded surface and then I could tell they were on the surface.
37 They weren't submerge--submarines, they weren't warships, cause
38 warships kind of--you get like a galloping beat, they don't
39 labor, they get where they want to go. I don't know how to
40 explain the sound of surface--ahh both contacts--ahh you have a
41 lot up surface contacts. Many of them can sound the same. They
42 aren't running anything really special, unique that another guy
43 or trawler, merchant may not have.

44
45 CAPT KYLE: And the information on these contacts, the three
46 that you held, how did these--how does this information pass to
47 the Officer of the Deck?

1
2 WIT: Initially it is done through the twenty-seven MC and also
3 the information is relayed through the fire control. We can
4 open our curtain--did you get that to let him know there is
5 stuff coming in. Most of the time it is through the twenty-
6 seven MC.
7
8 CAPT KYLE: So the twenty-seven MC is a sound powered phone
9 circuit?
10
11 WIT: Yeah, at the----
12
13 CAPT KYLE: An announcing----
14
15 WIT: ----It is an announcing circuit for the--ahh, ahh, the
16 sonar control towards the torpedo room, you can hear that and
17 the radio as well.
18
19 CAPT KYLE: Okay, so when you gained these--these targets--well
20 let's just consider one at a time--at what point do you announce
21 them to--to the Officer of the Deck?
22
23 WIT: As soon as you gain them. When you see the trace come up
24 on your screen, you've got to right then determine if it is a
25 contact of some type or if it is a rain trace, if it is fish, or
26 if it is undetermined. If it is undetermined if it is a contact
27 of some type you put a tracker on it. At that point you call it
28 out and that data is being sent to fire control.
29
30 MR. ROTH-ROFFY: Could you give us an example of how you would
31 report a contact to--on the twenty-six MC? For example, how
32 would you report that contact?
33
34 WIT: Okay, I'll just do this one. Con sonar gain sierra 12
35 bearing--it is tough to read this--three-two-two in ATF,
36 whatever track it may go on if it is charlie, delta, whatever
37 way I am sending to control.
38
39 MR. ROTH-ROFFY: And would you at that time know what course
40 that contact is on?
41
42 WIT: That initial gain. Initial gain you are not going to have
43 a bearing rate yet. You just have a--a demonstrates a bright--a
44 brighter line than other parts of the display.
45
46 MR. ROTH-ROFFY: Okay, what time or at what point would you--
47 would you be able to determine a course of the contacts?

1
2 WIT: That is--over time you keep doing different solutions
3 trying to kind of just prove what maybe your solution is. Ahh--
4 you try to get data--ahh to come in different DEs to see if he
5 is coming closer. You try to watch for your bearing rate to
6 change, to increase. If the ship maneuvers you try to get--to
7 get another leg of data on that contact. Anytime you can get
8 anything that might give it--ahh, we didn't have a mount, if you
9 have a towed array out you can get what they call a tri-range or
10 a triangulation range from that contact. It would be one
11 bearing on the sphere. You may have a different bearing on the
12 towed array based on how far you put it out and that can give
13 you a range as well. Just kind of what is available.

14
15 MR. ROTH-ROFFY: At what time or what point did you establish a
16 range on these contacts?

17
18 WIT: Ahh--12 and 13, like I said, about 10 minutes after the
19 gain----

20
21 MR. ROTH-ROFFY: ----How would you report that information to the
22 Officer of the Deck?

23
24 WIT: You could do the same--you could still you the twenty-
25 seven MC. You could give them the sierra number, you can give
26 them the sierra number, the bearing and your range estimate.
27 Ahh--depending on what's going on in control sometimes you alert
28 the fire control, you'll say, you know, what do you have? But
29 you can pass that information out.

30
31 MR. ROTH-ROFFY: Okay, so did you correlate your target
32 information or contact information with fire control on these
33 two--three contact?

34
35 WIT: I cannot remember--which--I know I did a couple, but I
36 cannot remember which ones. I did a couple with him. I think
37 sierra 10 at our time was kind of interesting at that--it had
38 the more bearing rate if I remember right. And we were thinking
39 this guy is not close, but in terms of --closer than the other
40 guys. So we were interested in them to see what solutions they
41 had in fire control to see if that was matching what we were
42 seeing?

43
44 MR. ROTH-ROFFY: And were they matching?

45
46 WIT: They had him farther out than we were assuming based on
47 the bearing rate, speed, whatever. How they dial that out in

1 fire control--how they get their information, they had him
2 farther out than we did.
3
4 MR. ROTH-ROFFY: And the contact information that you passed to
5 the OOD--ahh how does he keep track of that, bearing range
6 contact information?
7
8 WIT: Data wise? I'm sure he is just a little bit different,
9 but they have the fire control system that--with contact and ATF
10 all that information is going to their screen. They also have a
11 CEP plug in control that he can look at and they update the CEP
12 plot with the targets or contacts so they can get a visual
13 little bit wider than the screens we have in sonar as well as
14 the repeater we have of sonar in control. The screens we look
15 at are about this wide with 360 degrees, while the contact
16 evaluation plotter (CEP) is about this wide. So it gives them a
17 little bit broader picture so he can separate things and see
18 things a little clearer than maybe we can.
19
20 MR. ROTH-ROFFY: Now that CEP is that a manual plotter or is
21 that----
22
23 WIT: That is a manual plotter.
24
25 MR. ROTH-ROFFY: And who maintains that plotter?
26
27 WIT: I think at that time fire control was maintaining that
28 plot. Depending on contact density, fire control could be busy
29 on his equipment evaluating the ranges and they can bring
30 another guy into put the dots up. They can--I'm not sure
31 exactly, I think it is the auxiliary electrician forward I think
32 that can monitor that stack or that chart.
33
34 MR. ROTH-ROFFY: The sonar information, is it electronically
35 recorded? Do you maintain electronic copies of your sonar data?
36
37 WIT: As in the log sense?
38
39 MR. ROTH-ROFFY: No, is there any recording equipment that would
40 automatically retain your ----
41
42 WIT: We do have various systems that we could use. One of the
43 systems that we do have is a two task and tape decks that will
44 record voice annotations in the sonar shack itself, what is
45 being said, as well as you are going to have one channel--you
46 got two channels--one for voice and one for whatever stack you
47 have assigned to monitor--whatever he's steering around

1 listening to, that is the data you may pick up for the tasking
2 tapes. There is other equipment onboard that can be used mers
3 and mars that take a lot more data in that is usually just done
4 on stations taking towed array data, frequency data, a lot more-
5 ---

6
7 CAPT KYLE: Do you have any of those recorders onboard the ship
8 now?

9
10 WIT: We do have them onboard. We do not have the VHS tapes.
11 That is normally an item we get at--get for our load up for
12 WESTPAC, as well as the small 8mm tapes. I think we have like 8
13 on board. Once again, most of the time that is brought down
14 prior to WESTPAC and you are training on your OPS when you are
15 doing--training for tracking other subs or mission data and your
16 inspections for weapons readiness inspections, before we go and
17 use these tapes.

18
19 MR. ROTH-ROFFY: My understanding is you did not have the tapes
20 onboard and---

21
22 WIT: ----Not for the WESTPAC what we call mers and mars
23 recorders for the normally tasking were basically cassette
24 tapes. We had two of those units up. The whole morning up to
25 the accident itself we had a biologics tour tape for guests and
26 we did not record any other data for that.

27
28 MR. ROTH-ROFFY: So you actually playing a tape rather than
29 recording the incoming data?

30
31 WIT: We had stopped the tapes for the evolutions--for the
32 periscope approach and the emergency blow. That was stopped.
33 We don't want extra sound in the sonar shack.

34
35 MR. ROTH-ROFFY: I'm not sure I understand, but you were playing
36 the tape at some point and by playing that, it inhibited you
37 ability to record data?

38
39 WIT: Correct, sir.

40
41 MR. ROTH-ROFFY: What is your routine on recording data and
42 communications is that something that you do on special
43 occasions or routinely or----

44
45 WIT: Normally you have a tape deck running 24 hours a day once
46 a week. There weren't tapes--if at the end of the work tape
47 there is nothing on it, you hit record and you start again.

1 After a basic day you want to change that tape out so you are
2 not getting tape stretch, anything else that could damage the
3 tape. You've got to clean the tape deck, but basically it is
4 being used to record.
5
6 MR. ROTH-ROFFY: Okay, so generally you are recording all the
7 time, but in this case you are not recording?
8
9 WIT: Correct.
10
11 MR. ROTH-ROFFY: Could you maybe just tell us a little bit more
12 about that and why you didn't--you know, go in the record mode
13 after you had discontinued to play that?
14
15 WIT: Not beyond I didn't put the tape in or have it on soft
16 breeder and put the tape in to hit record. We just started
17 angles and dangles. I was focused there, okay. I did not think
18 to have it turned on.
19
20 MR. ROTH-ROFFY: I need to take a little breather now. Would
21 you like to take a break or are you alright. You would you like
22 to continue with the----
23
24 MR. WOODY: We got about ten minutes.
25
26 WIT: Actually, I am fine.
27
28 MR. ROTH-ROFFY: Actually, I am provided by Mr. Woody that we
29 have about 10 minutes and then we will be concluding the
30 interview for today and then resuming tomorrow. So why don't I
31 go ahead and pass it on to--who would like to go, is anybody
32 chomping at the bits here.
33
34 CAPT KYLE: I have just a couple of questions. Maybe I'll just
35 ask a couple of questions for completeness.
36
37 MR. ROTH-ROFFY: Yes.
38
39 CAPT KYLE: Umm--I'm looking at the master contact log here, it
40 is over here. We also have a couple of other sonar contacts in
41 the time of question and maybe you could tell me what you know
42 about those contacts. You told us about the contact sierra 10,
43 11, 12, and 13. Ahh 2333 it looked like we gained a sierra 14,
44 classified surface bearing three-five-eight. What was the gain
45 bearing and the same kind of data we had on the last one.
46
47 WIT: Okay----

1
2 CAPT KYLE: What happened per the log there.
3
4 WIT: One thirty two, I guess it is sierra 14, gain bearing was
5 three-five-eight.
6
7 CAPT KYLE: Okay, classification in there was?
8
9 WIT: Just surface contact. I'll have to look through--I
10 believe it was only surface contact.
11
12 CAPT KYLE: Any screw blade?
13
14 WIT: No, sir.
15
16 CAPT KYLE: Range, sonar range.
17
18 WIT: No, sir. Did not have a range on sierra 14.
19
20 CAPT KYLE: And when did you lose contact on him?
21
22 WIT: That would have been one fifty on sierra 14 at bearing
23 three-five-zero.
24
25 CAPT KYLE: What was his SNR?
26
27 WIT: Ahh, plus one.
28
29 CAPT KYLE: Okay, straight plus one pretty much or did----
30
31 WIT: It was a gain bearing and fade bearing, sir.
32
33 CAPT KYLE: Gain and fade? And he just faded?
34
35 WIT: I got him as fade, sir.
36
37 CAPT KYLE: Is the--is the time of the collision logged in those
38 logs there?
39
40 WIT: [Looking through the logs] No, sir. It is not.
41
42 CAPT KYLE: About what time did that happen in your memory?
43
44 WIT: I'm not sure, sir. I really don't know.
45
46 MR. ROTH-ROFFY: Did you want to know?
47

1 CAPT KYLE: Yes.
2
3 MR. ROTH-ROFFY: It would be twenty-three thirty-one, twenty-
4 three fort--one--forty-five, somewhere in there zulu.
5
6 UNKNOWN: The clocks are right over there.
7
8 CAPT KYLE: Yes, so that--twenty-three forty-one so that is
9 thirteen forty-one local.
10
11 UNKOWN: Collision thirteen forty-five.
12
13 CAPT KYLE: So this contact faded five--about five minutes after
14 the collision, sierra 14, according to the sonar log there?
15
16 UNKNOWN: Sierra 14 faded at twenty-three forty-one, three or
17 four minutes before the collision.
18
19 WIT: Right, they have another annotation, I believe this was
20 after I had just left. When they have an M or maintain bearing
21 and that don't have him again.
22
23 UNKNOWN: Is that a minus 30 SNR?
24
25 WIT: I don't know how you get a minus 30. You can't have minus
26 30.
27
28 MR. ROTH-ROFFY: I'm sorry. Could we keep the conversations--you
29 know, identify yourself rather than informally, just for the
30 transcript.
31
32 WIT: Item--at 2358 or 2350 sierra 14, I have the last bearing
33 on him as three-five-zero and it has an M in the log, which
34 would be maintaining. I'm not sure how he could be maintaining.
35 I'm not sure how he could be maintaining, he has to fade into
36 the bounce or something. I don't think that is a good
37 annotation on the logs.
38
39 CAPT KYLE: That's the last--that's the last bearing you had on
40 him in the logs?
41
42 WIT: That's the last bearing in the log, sir.
43
44 CAPT KYLE: But he was--you had contact on him after the
45 collision?
46
47 WIT: Yes, sir. They did.

1
2 CAPT KYLE: That's right. You got--what time did you get
3 relieved to get relieved to go to first lieutenant----
4
5 WIT: ----Right----
6
7 CAPT KYLE: ----and how soon after the collision?
8
9 WIT: I would say very shortly, sir. The other first class was
10 in sonar right after the bump.
11
12 CAPT KYLE: Okay. So the fading of that contact probably
13 happened on his watch?
14
15 WIT: Yes, sir.
16
17 CAPT KYLE: Okay. What can you tell us about sierra 15?
18
19 WIT: I have no idea, sir.
20
21 CAPT KYLE: Not in the log?
22
23 WIT: It is in the lo--oh, I'm sorry as in----
24
25 CAPT KYLE: ----time gained, the same kind of--
26
27 WIT: 2346 or 146 local, gained surface contact sierra 15
28 bearing zero-seven-eight.
29
30 CAPT KYLE: And SNR.
31
32 WIT: Gain was a negative 2.
33
34 CAPT KYLE: And how long did we hold this contact?
35
36 WIT: It was a gain and fade.
37
38 CAPT KYLE: Gain, fade.
39
40 WIT: At the same time.
41
42 CAPT KYLE: Okay.
43
44 WIT: Two degrees difference, zero-seven-six was the fade.
45
46 CAPT KYLE: Okay and sierra one six.
47

1 WIT: Sierra six----

2

3 CAPT KYLE: ----One six.

4

5 WIT: One six, 146 local, surface contact gained at one-seven-

6 four and there is nothing beyond a gain bearing on sierra one

7 six.

8

9 CAPT KYLE: And I think--I think you said earlier you thought--

10 you thought sierra one six was ahh, ahh, I believe you ruled----

11

12 WIT: I believe that's--yes, sir. It says gained and faded at

13 the same--in the annotations on the logs for sierra one six.

14

15 CAPT KYLE: So just go back over the contacts real quickly for

16 me, ahh sierra 12--ahh gained at 2230, bearing three-three-two.

17 What is the bearing at the nearest time to the collision logged

18 in the log there.

19

20 WIT: What was the---

21

22 CAPT KYLE: 2325

23

24 WIT: 2325, sierra 12 was bearing three-one-three.

25

26 CAPT KYLE: At what time?

27

28 WIT: That was 2341 or 141----

29

30 CAPT KYLE: What was the SNR at that time?

31

32 WIT: That's a fade.

33

34 CAPT KYLE: That was a fade?

35

36 WIT: At that time. Ahh--right prior to that a negative 9.

37

38 CAPT KYLE: Negative 9. And how about sierra one three? What's

39 the nearest bearing?

40

41 WIT: At time it was bearing three-zero-nine.

42

43 CAPT KYLE: At what time?

44

45 WIT: Ahh, 2345 or 145.

46

47 CAPT KYLE: SNR.

1
2 WIT: Was plus 9.
3
4 CAPT KYLE: Plus 9. Is that pretty high?
5
6 WIT: Relatively high--ahh, depends on the source level--ahh----
7
8 CAPT KYLE: What was the preconditional gained SNR?
9
10 WIT: It looks like a plus 7.
11
12 CAPT KYLE: So he was a pretty loud contact. That was--was
13 gained at 2333?
14
15 WIT: Yes, sir.
16
17 CDR CACCIVIO: CAPT Kyle, the majority of those were also plus
18 DEs on those with the guy you are asking about.
19
20 CAPT KYLE: Okay.
21
22 WIT: Yes, sir. I don't--in fact any of the logs. That would
23 have to go back to sierra nine, which way back is the only one
24 that I have right now which is negative five, that is sierra 13
25 and a negative 10 at 2332.
26
27 CAPT KYLE: I'm sorry, say that again.
28
29 WIT: At time 2332, sierra 13 it was bearing zero-zero-eight.
30 It's SNR ratio was a negative eight and its DE angle was a
31 negative ten.
32
33 CAPT KYLE: Okay, let's see, sierra 10, what was that guys SNR
34 at--near the collision. What's his bearing nearest to the
35 collision and what was his SNR?
36
37 WIT: Ahh, the last bearing we had was 2246, we placed him in
38 the baffles at bearing one-seven-four. I'll go one step back
39 and he was a negative 8 and a negative 3 DE.
40
41 CAPT KYLE: Okay, that was last bearing was one-seven-four, time
42 2246.
43
44 WIT: Into the baffles, yes sir.
45

1 CAPT KYLE: Okay and fine let's do the same--I've already got
2 sierra 11 so I guess we got all that stuff now. Can you tell me
3 a little about how you relieved the watch? What do you look at?
4
5 WIT: You're going to look at what's going on with the
6 equipment. You have a tour you make to check to make sure if
7 there is anything electricity-wise going into the shack, you're
8 going to check for normal-normal on your power coming in for
9 your BTs. You've come into the shack, you get a turnover from
10 the sup to find out what he has and what may be wrong, or what
11 he has on assumptions on contacts.
12
13 CAPT KYLE: Okay.
14
15 WIT: Once you get a handle of that, you take a look at
16 basically where you are in the water to see if you have any
17 constraints. Like in this case you know the Hawaiian--Oahu is
18 up to your north. You are expected to get some contacts out of
19 that direction or more contacts out of there than you would in
20 other places.
21
22 CAPT KYLE: How did you review that? How did you figure that
23 out? How would you--where do you go?
24
25 WIT: You can look at the quartermaster's stand to find out your
26 geographic picture basically what you have.
27
28 CAPT KYLE: Did you do that that day?
29
30 WIT: Ahh, I didn't because I had been kind of in the shack the
31 whole time in back and forth. I did not go look at the plot. I
32 knew roughly we were close to the island of Oahu.
33
34 CAPT KYLE: What time did you relieve the watch?
35
36 WIT: I think it was right about twelve or eleven thirty. It
37 was right after I ate. I was----
38
39 CAPT KYLE: ----You stayed up the DV's until they went down for
40 lunch. You went down and got some food and then came up and
41 relieved the watch?
42
43 WIT: ----Yes, sir.
44
45 CAPT KYLE: Okay. So what else do you do--check on for watch
46 relief?
47

1 WIT: Umm--if you are on--on station or you are doing a
2 different evolution----

3

4 CAPT KYLE: No this is on--I'm just interested in that day.

5

6 WIT: Umm--the stash of gear, the contacts you have and your
7 going to check kind of your surrounding. You also look at your
8 environment to see if your layer depth is different than what
9 you think it is suppose to be.

10

11 CAPT KYLE: What was your layer depth that day.

12

13 WIT: Ahh, about 400 feet.

14

15 CAPT KYLE: How do you determine that?

16

17 WIT: Ahh, you can--the ship can do a depth change, which we had
18 dove coming out and that is going to help you out with the--ahh,
19 monitoring the sound velocity from the ship as well as during
20 your angles and dangles you can do it. Prior to my watch, mine
21 was basically the dive--you could pull up the sound velocity
22 trace on the busy-system and you could look at the sound
23 velocity.

24

25 CAPT KYLE: Would you mind drawing on a piece of paper kind of
26 what you--you can get a piece of paper there--what the SVP looked
27 like, as far as you recall.

28

29 MR. ROTH-ROFFY: Captain, we are going to have to be leaving
30 here shortly.

31

32 WIT: Something kind of--something kind of--just kind of not
33 really isomer, it kind of has a little bit of bend near the top
34 and then it works it's way down and then started to bend
35 backward.

36

37 CAPT KYLE: Okay, what impact--how did you access the tactical
38 implications of that SVP there?

39

40 WIT: You get plenty of sound in the depths we were operating
41 in. The sounds going to be coming down towards the minimum
42 sound velocity, down here. So I know the sound is working
43 towards where I am at.

44

45 CAPT KYLE: One last question for the day and we'll wrap up and
46 finish up tomorrow. While we are going at it, what--in your

1 watch relief, what equipment--how--summarize your equipment
2 status.
3
4 WIT: The ASVDU or the repeater for the busy system on the conn
5 was--had a bad, we believe a deflection page, which takes your
6 data that is supposed to be displayed like this and kind of
7 pushes it to one side. We had two sound velocity monitor feeds
8 measured the temperature sound in the water in the dome, two of
9 those heads or measuring devices are not good. We do have one
10 in the sail and the keel that are good.
11
12 CAPT KYLE: Along that topic, was those--do you know which head
13 was used to determine those, that----
14
15 WIT: That would take an average out of the ones that are
16 working. Ahh, any bad data. It doesn't average it.
17
18 CAPT KYLE: All right.
19
20 WIT: The Q-10 system we only use for our towed arrays. We
21 didn't have those displays up, not going to use that. Umm, the
22 BQR-22 spectrum analyzer we have was currently tagged out. They
23 wanted to remove the remote unit we use out there on the conn or
24 in control. They had that removed so it is currently tagged
25 out. It is an analyzer we use underneath the 9.
26
27 CAPT KYLE: So, the remote unit was tagged out, but how about
28 the unit in the sonar control?
29
30 WIT: The--I'll make that a little bit clearer. The whole unit
31 is tagged out, because if you--we've got to tag out especially
32 that unit because it takes power or the main power switch for
33 unit 13 of the remote and what we call unit 5, which is the
34 interface for the 22 system is on the same power switch on the
35 22 system. So to get that more isolated passed a power panel
36 switch in the ship--regular "p" panel--you have to get more
37 drawings out, do a little more than just tag out the unit.
38
39 CAPT KYLE: How long has that been tagged out about?
40
41 WIT: I think it was pretty much right--ahh, cl--Wednesday or
42 Thursday before. I'd have to look at the tag out log. It was
43 there shortly before.
44
45 CAPT KYLE: Anything else significant sonar wise, equipment
46 status?
47

1 WIT: No, all the little remote displays for everybody to look
2 at different items on the ship were still working. My two CDC's
3 or where we sit broadband in workload share, those screens are
4 fine.
5
6 CAPT KYLE: While you are talking that, real dispute, I promise
7 my last question. The sonar line up, which console was in
8 broadband and which was in workload share?
9
10 WIT: Broadband was unit 1103----
11
12 CAPT KYLE: ----Which is which one?
13
14 WIT: Which is more forward in the shack and 1104 is the one
15 closer to control.
16
17 CAPT KYLE: And----
18
19 MR. ROTH-ROFFY: ---- Nope, you promised.
20
21 CAPT KYLE: No this is an add-on to the final question. 1104,
22 unit 1104 what was on which display, upper or lower? Can you
23 jet class up on that or how are you----
24
25 WIT: No, sir--when you do classification, you do it on the 1104
26 stack or workload stack. And it will take the upper display
27 when you're cutting a contact.
28
29 CAPT KYLE: So you bring that up to cut contacts and then what
30 do you do?
31
32 WIT: Then you would bring it back to the----
33
34 CAPT KYLE: [phone ringing]----Telling me I'm done here.
35 WIT: ----4 DE or AD----
36
37 CAPT KYLE: ----Okay, thanks.
38
39 MR. ROTH-ROFFY: Thank you, Captain Kyle for that lengthy
40 interview. We would like to now break for the day. I have
41 about 1607. I would like to resume tomorrow at 0830. That
42 concludes the interview of Petty Officer----
43

1 NATIONAL TRANSPORTATION SAFETY BOARD
2 VERBATIM TRANSCRIPT OF INTERVIEW WITH

3
4 STS1(SS) EDWARD W. McGiboney

5
6 CONDUCTED AT COMMANDER, SUBMARINE SQUADRON 1 CONFERENCE ROOM,
7 822 CLARK STREET, BUILDING 661, PEARL HARBOR, HAWAII

8
9 ON 15 FEBRUARY 2001

10
11 MR. ROTH-ROFFY: Good morning. It is about 9:33 in the morning,
12 Thursday, February 15, 2001. And we are here with Petty Officer
13 McGiboney and we're resuming our interview that was terminated
14 at the end of yesterday. I'd like to again remind everybody,
15 please for the interview purposes if we could state your name
16 before asking any questions for the transcription. It makes it
17 a little easier for that person. Again, Petty Officer McGiboney
18 we'd like to at this time for you to recount the events of your
19 observations in the sonar room using--referring to the charts
20 and logs and kind of just step us through what was going on
21 there and what you were thinking, what you saw and what you did,
22 what you communicated in as much detail as you can. Just kind
23 of recreate what was happening on that afternoon.

24
25 LT HEDRICK: Here are your sonar logs. Here's some fire control
26 system print outs of sonar data. We've made available for you a
27 copy of the CEP plot and I also have a copy of the deck logs.
28 And I think just looking roughly at the logs I think unless you
29 have other information you would like to bring up, I think if we
30 start with the gain of sierra 12 and sierra 13, roughly an hour
31 or so before the incident--if you'll step us through, give us
32 the time, significant analysis that you recall making in sonar.
33 I'm interested both in your analysis and what your were thinking
34 at the time, anything that you can specifically as information
35 that was passed on to the conn or to the FTOW. It would also be
36 appreciated that you go through this--please also gives a feel
37 for the environment in sonar if you can. If you specifically
38 recall certain people coming in or coming out. I know you
39 mentioned the XO at one point. Go ahead and do that as we go
40 along. Of course we will interrupt with a few questions along
41 the way. We will try to keep that at a minimum because we
42 really want you to try to picture yourself back in sonar and let
43 us know what you were thinking and reporting.

44
45 LCDR SANTOMAURO: Could you give us an idea, just a brief
46 description of what the sound velocity profile was, the water

1 conditions, and that--and what you thought that was, the picture
2 that you had in your mind at that--at that point.

3

4 WIT: Okay. A couple of things that I didn't mention yesterday
5 that the Executive Officer was in sonar. I'm not sure at what
6 point. He came in prior to our baffle clear. He came in prior
7 to the baffle clear. He was there through the baffle clear and
8 through the ascent to PD. There shortly after getting to
9 periscope depth is where the XO left. I'm not sure exactly what
10 time. It was af--just after reaching periscope depth. One
11 other note from yesterday. I was trying to explain how can you
12 tell if it is surface contact vice another type of contact. The
13 best way I can kind of describe that is kind of like when you
14 are listening to music you may not know the band that is
15 playing, but you can recognize what type of music it is; if it's
16 rock music, if it's jazz. You know the type, just like you know
17 if it's a surface contact, vice a submarine, vice a warship.
18 You have a generic idea what it is off the bat.

19

20 LT HEDRICK: Based on how many years of sea duty do you have
21 roughly?

22

23 WIT: About seven.

24

25 LT HEDRICK: And that is all as a sonarman?

26

27 WIT: Yes, sir.

28

29 LT HEDRICK: Additionally, as a sonarman do you routinely or
30 even infreq-what-at what frequency do you conduct any type of
31 training related to contact identification? You know, audio-
32 type training?

33

34 WIT: You have trainers that you go to at the training building
35 over here while you are in port. While you are out to sea, you
36 do have work tape or training tapes you can plug in to listen
37 to. But usually unless you are in a very open part of the ocean
38 there's a contact out there sometime you can do a lot of on-the-
39 job training. You can listen to them and every now and then you
40 do get a chance to go up to periscope depth to take a look to
41 see what that contact looked like as well as hear it.

42

43 LT HEDRICK: So even when you're not at sea and you're in-port
44 and attending these trainers on some type of periodic basis
45 you're getting this experience. How often would you say in-port
46 you're doing this? Weekly, monthly, quarterly type basis that
47 you are listening to a tape?

1
2 WIT: Monthly to every two months I guess would be the schedule.
3 It kind of depends on your in-port schedule, what you are doing
4 and what are the needs at that point. We try to get over there
5 when we can.
6
7 LT HEDRICK: And then underway you are using the actual noises
8 in the ocean and when not available using the audio tapes that
9 you have onboard as well. Thank you. We can go ahead and start
10 with your gain of sierra 12--I think is the point where we
11 probably need to start in the logs. Once again, insight into
12 what you were thinking, what you may have directed the operators
13 in front you, what you may have passed onto control is of
14 interest as well.
15
16 WIT: Okay, umm, the time backwards again--at 2230 or 1230----
17
18 LT HEDRICK: ----You can just stay with zulu time. The times
19 that are written in the logs are zulu time, that is ten hours
20 ahead of the local time. Just maintain zulu time so you don't
21 have to do the math in your head for all of these.
22
23 WIT: 2230 sierra 12 was gained at a bearing of three-three-two.
24 I gained sierra 33, or correction sierra 13 at 2233 and his
25 bearing was three-five-seven.
26
27 LT HEDRICK: Do you recall who gained these contacts, if there
28 was anything unusual, absent or extra in the gain reports that
29 were made to you and what you may or may not have passed out to
30 control?
31
32 WIT: On an initial gain us just you gain the trace itself. You
33 have--once he listens to it, surface contact or if it's a trace
34 it's not surface contract, what it is. He gained that as a
35 surface contact--that was on a broadband operator, he reported
36 both sierra 12 and 13 as initial gains, surface contacts.
37
38 LT HEDRICK: Did you listen to either of those contacts at the
39 beginning?
40
41 WIT: Yes I did, sir.
42
43 LT HEDRICK: And what was your personal classification.
44
45 WIT: They sounded like surface contacts, sir. At the time
46 2235, sierra 12 faded in the logs bearing at three-two-eight--
47 doing just kind of a quick bearing rate time versus a range of a

1 contact, he traveled 4 degrees in approximately five minutes.
2 It tells me that he has a little bit of a distance because he's
3 not traveling rapidly and bearing rate plus his is initial gains
4 so you've got to wait a little bit to determine a little more
5 travel time, but the initial range that I had on him was excess
6 of 10,000 yards based on that bearing rate, he didn't have
7 significant bearing rate.

8
9 LT HEDRICK: Just for tactical clarification, when the sonar
10 system gains these noise levels and trackers are assigned so
11 that the computer can process the data and determine a bearing,
12 frequently it will take a minute or two for what the sonarman
13 refer to as time for contact to settle in or stabilize. While
14 the initial processing is going on, the computer system is doing
15 its interpolations from all the different hydrophones to decide
16 which precise bearing down to say a half-degree or so that it is
17 on. So initially, there is a few degrees slop in the bearing
18 and that is why he is saying you have to wait for the bearing to
19 stabilize before you can start doing its bearing rate analysis.

20
21 LT JOHNSON: Petty Officer McGiboney, when you gained sierra 12
22 and 13, did you have approximate range of which you detected
23 these contacts or could you--do you have a best guess or
24 anything along those long as to how far out they were?

25
26 WIT: On initial gain it is tough to get a--you can get an
27 assumption range, but you can't get a good range. If you gain a
28 contact or he starts up or he just starts to show up, his noise
29 starts to hit us, you can look at your--the person elevations on
30 the sphere itself. If he's showing up closer or more negative
31 than 13 degrees on the sphere, you can use that with the bottom
32 depth to correlate a possible range. That wasn't available. He
33 was higher up than the negative 13, means which we would get a
34 direct path as well as he was probably out a distance based on
35 that lack of information.

36
37 LT JOHNSON: But you wouldn't be able to tell that he was 2,000
38 yards away or 20,000 yards away on an actual contact----

39
40 WIT: Not on a initial gain, sir.

41
42 LT JOHNSON: Okay.

43
44 CDR CACCIVIO: Real quick. I need you just to explain to me
45 these right here so that I can follow along with you. What is
46 the--this "R" is relative?

47

1 WIT: These are--these are the logs that printed off the Q-10
2 system.
3
4 CDR CACCIVIO: What bearing did you gain sierra 12 at?
5
6 WIT: Bearing three-three-two true.
7
8 CDR CACCIVIO: Okay and okay, thank you.
9
10 LT HEDRICK: Continuing on you said sierra 12 had faded three-
11 two-eight and I think you were about to give us your rough idea
12 of the range. As you go through the contacts if you recall that
13 you were picturing, in your head, a particular range please let
14 us know that and once again anything that got passed down to
15 control that you recall.
16
17 WIT: Okay, both contacts, sierra 12 and 13, initially you are
18 not getting much bearing rate on them. I didn't see him past
19 that negative 13 DE. They were not extremely loud contacts as
20 in maybe they just started up--to create a very large SNR. So
21 with a little bearing rate, lack of DEs and a relatively low
22 SNR, I put out the initial assumption that both contacts were
23 outside of 10--10,000 yards, with information I had there in
24 sonar. It tie--it looks like we may have made a course change
25 somewhere between the time between two thirty five. I got one
26 guy going in the baffles.
27
28 LT HEDRICK: Just a second. Where is the----
29
30 MR. ROTH-ROFFY: Deck logs--Now the deck logs are they also in
31 zulu time or are they in local time?
32
33 LT HEDRICK: Ships deck logs are in local time. What time are
34 you looking at, 2235?
35
36 WIT: 2235, I've got sierra 10.
37
38 LT HEDRICK: For clarification for the tape, we do have a hand-
39 copied version of the deck logs on an easel behind us starting
40 at time 2245 zulu. Prior to that--1207--oh wait, you are going
41 zulu time. At 2207 the ship was on course north. At time 2240,
42 which would be after the gain of sierra 12 and 13, so sierra 12
43 and 13 were gained on course north, the course change that Petty
44 Officer McGiboney can see from his log occurred at approximately
45 at 2240. Course change was to the left to course two-four-zero
46 and that now puts you were you are on the logs here showing

1 initial two-four-zero, ten knots, six-five-zero feet, and then
2 another rudder order at 1245.
3
4 WIT: I believe we were coming--changing depth with the ship.
5 Not rapid depth change, but casual depth change.
6
7 LT HEDRICK: Does that impact your analysis, small depth changes
8 of a couple hundred feet in this environment, in this location?
9
10 WIT: No sir, not depth changes. Course changes can--not
11 create, it can have some effect on your bearing rate as you
12 change course. If you're a constant course you know the contact
13 is not going to change course. It's going to have a certain
14 track or path. In that track or path you expect certain bearing
15 rates at certain points. As the ship changes course it can
16 affect that bearing rate in various fashions.
17
18 LT HEDRICK: So by analyzing the speed that the ship has
19 perpendicular to the contact speed across the line of sight you
20 are able to gain some ranging information over time in several
21 course changes, depending of course--the quality of the data
22 depending on what the actual course changes are relative to that
23 contact?
24
25 WIT: Yes, sir.
26
27 LT HEDRICK: But the depth changes that were occurring were not
28 negatively or positively impacting your analysis?
29
30 WIT: No sir.
31
32 LT JOHNSON: Can we go back to 2235 where you lost sierra 12 and
33 pick up there cause I'm getting kind of side tracked here as to
34 where we are. We want you--are we just going for a
35 chronological sequence here of what is going on----
36
37 WIT: Okay.
38
39 LT JOHNSON: Okay, cause I'm trying to follow you here and I'm
40 getting lost here so.
41
42 WIT: At 2235 that is when we faded sierra 12. Also faded
43 sierra 13 bearing three-five-nine.
44
45 CDR CACCIVIO: Say again what time you faded sierra 13.
46
47 WIT: At 2235.

1
2 CDR CACCIVIO: And the bearing was three-five-nine?
3
4 WIT: Yes, sir.
5
6 LT JOHNSON: Did you--are you notified every time there is a
7 course change or depth change?
8
9 WIT: I don't remember that one.
10
11 LT JOHNSON: Is it likely though?
12
13 WIT: It's on the open mike and most of the time I do hear that.
14 I just don't remember every course change that we did with depth
15 change.
16
17 LT JOHNSON: They don't specifically contact you, you know,
18 sonar conn coming left to this or sonar conn we are going to
19 change depth to this?
20
21 WIT: Normally we do if the open microphone is not on because
22 they can announce it through the microphones in control.
23
24 LT JOHNSON: Sure. Okay.
25
26 WIT: And I do not remember if they were us--I----
27
28 LT JOHNSON: ----Would you note that in your logs?
29
30 WIT: No sir.
31
32 LT JOHNSON: You would not? Okay. I'm sorry. Go ahead.
33
34 CDR CACCIVIO: It is procedurally required to notify the sonar
35 supervisor of course changes?
36
37 WIT: Procedurally yes.
38
39 CDR CACCIVIO: And how is that accomplished?
40
41 WIT: You can do that through open microphone or you can do that
42 through the 27 MC circuit or announcing circuit.
43
44 CDR CACCIVIO: Thank you.
45
46 LT HEDRICK: Do you have--do you also have indications in sonar
47 of ships course and speed that are readily apparent to you?

1
2 WIT: Yes sir on the broadband display you have a stern marker
3 that recognizes the back end of the boat. That is the eas--kind
4 of the easiest indication that you are changing course because
5 it will move as the ships move. A little bit harder one to
6 recognize is there is a little "V" shape above the bearings and
7 that is on the ships heading. That will move back and forth a
8 little bit harder to watch as you the display.
9
10 LT JOHNSON: Follow up on the commander's point of--on this
11 particular day in question, were you being in fact notified of
12 every course and depth change or was that just up to you to pick
13 it off the machinery or to overhear it on the MC? Anything
14 specific is what I'm getting at because you have sonar conn we
15 are changing depth course or whatever, were you ever notified
16 directly or specifically I should say.
17
18 WIT: I think the early course changes I was and I think it went
19 to the, not specifically, but through the open mike later though
20 but I'm not sure at what point that would have shifted.
21
22 LT JOHNSON: Okay, thank you. Now we are at 2235 and you just
23 faded sierra 13, correct?
24
25 WIT: Yes sir.
26
27 LT JOHNSON: Alright. Thanks.
28
29 WIT: At time 2240 have a regain of sierra one three bearing
30 three-five-nine. At time 2242 I have a fade of sierra one three
31 bearing three-five-nine, same bearing.
32
33 LT HEDRICK: Petty Officer McGiboney, we've got a couple of
34 gains of fades here. How would you--in your recollection, how
35 were thinking of about these contacts or characterizing them at
36 the time. Are the gains and faded because it is a weak contact?
37 Is it because the contact has a high bearing rate and the
38 tracker can't keep up? Is it a manual problem of the operator?
39 Explain what you think the contact was actually doing?
40
41 WIT: Okay. I believe it was very faint. They have the SNR
42 ratio which was negative 19, ahh the system you want to have at
43 least a negative 13 or higher for a very good track so it wasn't
44 very solid track. It was probably a small trace. It appeared
45 they gained it and probably faded it thereafter.
46

1 LT HEDRICK: Does that correlate with your memory of the visual
2 picture from the display and the audio that you and/or your
3 operator were listening to?
4

5 WIT: I believe so.
6

7 LT HEDRICK: All you can give me is what you can recall. Please
8 don't make stuff up if you can't recall or you just think
9 continue to state it that way.
10

11 LT JOHNSON: On the issue of the regains, and please bear with
12 my ignorance here, did you get any screw blade information on
13 sierra 13 when you first----
14

15 WIT: No, sir. We did not get screw blade on sierra 12 or 13.
16

17 LT JOHNSON: So what--I guess and please bear with me like I
18 asked, how do you know it is a regain of a previous contact and
19 not a new contact. That when you first faded sierra 13 it was--
20 it's off--another words it is off the scope and now we got a new
21 guy coming in on a the same bearing. If you didn't get any
22 screw blade information or anything to put a signature on it, is
23 it possible that this could--that your redesignate--or your
24 regain of sierra 13 could have been another vessel or is that--
25 am I way out in left field here with that?
26

27 WIT: Yes sir. That is correct. It could have been another
28 vessel.
29

30 LT JOHNSON: What made you sure it was a regain? Or suspect,
31 let me say that.
32

33 WIT: I would have suspected it was a regain. It was at the
34 previous bearing of sierra 13. We had him at that bearing. You
35 regained it at that bearing. There is always a chance that it
36 is a new guy there, but generically the closer guy--if there is
37 another guy in that bearing, is going to be the guy that you've
38 been tracking.
39

40 LT JOHNSON: Can I and I want to purpose--is that okay here Tom?
41

42 MR. ROTH-ROFFY: Sure.
43

44 LT JOHNSON: I want to ask you--I need to go to the board here
45 though because I have an acoustic type question and I need to
46 draw a picture, representation. Once again I am not a sonar
47 tech so if I appear stupid here. [Drawing a picture] If I've

1 got a contact--I'm just going to say this circle represents your
2 submarine and it is a pretty circle. Okay, this is your
3 submarine right here. And this could be any amount of distance,
4 any range that you want to call it. And I've got a contact----

5
6 MR. ROTH-ROFFY: Could you put it on hard paper?
7

8 LT JOHNSON: Sure. Okay. Here is your submarine down here,
9 okay. And I've got a contact and this range could be anything
10 you want to call it, it doesn't matter. And I've got a this my
11 little boat with a screw, okay? And I've got this, actually let
12 me get closer than that--and here's the screw. Okay, we got the
13 picture here. Two boats, this could be 10,000 yards, it doesn't
14 matter. But I've got two completely different aspects of the
15 vessel, which one of these in your experience is going to give
16 you a better picture or sound picture. Which one are you going
17 to pick up more prevalent, the one with the screw facing you
18 that is pushing sound in this direction or the closer contact
19 that may be pushing in this direction?
20

21 WIT: It is going to be the guy with the screw blade behind him.
22

23 LT JOHNSON: Vessel one. We'll just call him vessel one and
24 we'll call him vessel two.
25

26 WIT: Yes, sir.
27

28 LT JOHNSON: So even though vessel two may a closer contact,
29 vessel one would give you the more prevalent sound?
30

31 WIT: Yes sir. Based on, you are still going to hear something
32 from two at that angle. If you get what we call a bow null from
33 a contact----

34
35 LT JOHNSON: Uh-huh.
36

37 WIT: He's directly pointing you, you may not see anything from
38 a contact at a certain distance, at a certain place you are
39 going to see contact either from the bottom bounce or he is
40 going to be emitted sound in front of him, but not as much as
41 you are going to see behind him.
42

43 LT JOHNSON: Right----
44

45 LCDR SANTOMAURO: I'd like to just state that at this point the
46 time that we are at, 2240 zulu, the contacts that we are talking

1 about, sierra 12 and sierra 13 are off the starboard beam
2 approximately actually. The course is on two-four-zero.
3
4 LT JOHNSON: That is my next question. Once again here is your
5 sub----
6
7 MR. ROTH-ROFFY: Okay. Just to interrupt one second. You've
8 flipped over a new page. Let's call the first one exhibit 1.
9
10 LT JOHNSON: You need me to annotate that?
11
12 MR. ROTH-ROFFY: If you would, mark the first page of exhibit 1
13 of the interview with Petty Officer McGiboney and then just mark
14 the second page, which you are starting now, as exhibit 2.
15
16 LT JOHNSON: Okay. We are back down on the submarine. I'm
17 going to close the scale down here, okay? You've got--you've
18 got your sierra 13 here--okay here is the screw right here and
19 he's tracking off, let's just say this way. This will be your
20 three-five-nine bearing. Okay, you with me? And you lose him
21 for whatever reason, he's opening the range and you lose him.
22 He would be the prevalent screw noise going away. You have
23 another vessel that is perhaps on the course of one-five-zero to
24 one-seven-zero it is now coming into the picture. This guy is
25 fading out, this guy is coming in and you are detecting him
26 along the same bearing lines. Is it possible to confuse this
27 vessel number two to be a regain of vessel number one?
28
29 WIT: Yes sir. It is.
30
31 LT JOHNSON: Okay, the--okay that is my question. Wanted to
32 make sure that we could have one faded, that actually went out
33 of your scope and another one that came back in with the same
34 bearing line and you would not be able to differentiate between
35 the two.
36
37 WIT: Correct, sir. The thing with initial gain and the time
38 span on the two contacts that is possible, but once you gain a
39 contact with the sonar if they are moving and it is not a start
40 up, you are gaining them on a closing course. It ahh--how do I
41 explain that--it's like if you could stand on a side of the
42 interstate and wait till you hear the sound of a car moving, the
43 initial of that sound car moving is something coming toward you,
44 not moving away from you. If you----
45
46 LT JOHNSON: So you are saying when you initially gain a contact
47 that has a stern type aspect on the bow you can't----

1
2 WIT: If it starts up, that means its noise now is radiating
3 out----
4
5 LT JOHNSON: When you say start up, what are you talking about?
6
7 WIT: He decides to start up his engine, he is starting to move
8 his screws.
9
10 LT JOHNSON: But at a range--if we had a contact that were--this
11 is kind of educating for me too--his screws back here with a
12 contact out here now. Whatever range you want to plug in, a
13 long way away range let's just say. You may not hear it, you
14 may not hear, you may not hear it, you may not hear it , and you
15 may hear him, you may hear him cause as he turns his maneuvers,
16 he starts to present to you the screws, would you not hear that?
17
18 WIT: You would hear it in that case. I am just saying normally
19 when you are looking at sonar, as something starts to get closer
20 to you----
21
22 LT JOHNSON: Doppler?
23
24 WIT: Yes, sir. You are going to start to pick that up.
25
26 LT JOHNSON: Right.
27
28 WIT: You don't normally pick it up as if he is--I don't know
29 how to explain this. He is not coming directly at you--I
30 shouldn't have put it that way--put it that way but----
31
32 LT HEDRICK: A point of clarification here. One of the original
33 questions from LT Johnson was, "Is it possible to not hear a
34 contact coming toward you" and the answer was yes due to a
35 phenomenon that is known as a bow null the contact is directly
36 pointing at you. Based on the environment you may or may not
37 know hear him. In most cases you do still hear contacts that
38 are pointing toward you. Petty Officer McGiboney is trying to
39 state that picture yourself next to an interstate and vehicles
40 are going by you. How many of those vehicles do you hear for
41 the first time after they have already passed you and are going
42 away? None. So the standard two ships passing in the night
43 both on constant courses without any abnormalities in the
44 environment, such as large sea cliffs or anything else in other
45 places in the water, you will almost always pick each other up
46 on a closing aspect--almost always, okay. And that is one of
47 the things the sonarman do for their analysis.

1
2 LT HEDRICK: But we can't confuse might not hear him on closing
3 and gain until opening with what is normally experienced.
4
5 LT JOHNSON: I'm just asking if it is possible, because I know
6 in experience of aircraft I've had aircraft flying directly at
7 me and don't hear a thing until they turn away and present their
8 engines.
9
10 LCDR SANTOMAURO: Can we summarize the situation that we are at
11 right now?
12
13 LT JOHNSON: Yeah.
14
15 LCDR SANTOMAURO: Okay we have already gone through 12 minutes
16 of logs.
17
18 LT JOHNSON: I'm happy. He answered my question. I just wanted
19 to know about the regain issue.
20
21 LCDR SANTOMAURO: Right, but after 12 minutes we've got--here is
22 the situation that we got right now. The ships turn to course
23 two-four-zero, we've had two contacts off the starboard beam
24 that are basically 30 degrees apart on a maneuvering board. I
25 would find it hard to really establish the fact that we'd be
26 confusing sierra 12 or sierra 13 seeing as fact there is a 30
27 degree difference in space there.
28
29 LT JOHNSON: I'm not saying sierra 12 and 13. I'm saying that
30 the regain of 13--could the regain of 13 in actuality been a
31 completely new contact?
32
33 LCDR SANTOMAURO: Now, what I will say is that you have these
34 contacts and they've had very little bearing rate?
35
36 WIT: Yes, sir. Also at that point they are at the edge of the
37 ships baffled region with the course of two-four-zero north.
38 You have 120 degrees on one side, you have 120 degrees on the
39 other side of the bow. That's your normal listening area so
40 that is right at the edge of the baffled region.
41
42 LT HEDRICK: So you said the contact faded at time 42 bearing
43 three-five-nine. Did that contact fade because his signal got
44 weaker on that bearing or because he went into the ships
45 baffles. Do you recall?
46

1 WIT: I do not recall. The gain was a negative 19 SNR. It
2 could have been because it was right at the baffles. He could
3 of drew in a little bit. I don't --don't recall that.
4
5 LT HEDRICK: Okay.
6
7 LTJG KUSANO: Could you explain a little more about gain, SNR?
8 What do you mean by minus 19 and minus 13? How much of a
9 difference is that?
10
11 WIT: SNR is signal to noise ratio. It is how much noise above
12 background or near background he is presenting to the system,
13 whatever contact it is. As the noise is emitting from a ship,
14 we call that a source level. He has a certain amount of decibels
15 that he is presenting out into the water. We are going to see
16 that based on propagation lost, how far a contact is, how much
17 loss of sound--or source level. It could be from his point to
18 our point into the sphere. Once the sphere picks it up that is
19 going to show us by a bright demis trace or a brighter green
20 color on our displays. And then the system will analyze that
21 information coming in based on the background noise that it sees
22 and in comparison to how much it seeing it is going to give it a
23 signal to noise ratio on our display saying it is a negative 19
24 or very low up to a plus 20 which would be very high.
25
26 LTJG KUSANO: So going back to comparison as you were talking
27 about different types of music, how would you compare that when
28 if you were listening to a type of music. What would you
29 compare that to? Volume or----
30
31 WIT: That's volume. That would be volume of the contact. It
32 is not an adjustable because he usually presents the same source
33 level.
34
35 LT HEDRICK: What would you, based on experience, just consider
36 the minimum SNR to have good track on a contact?
37
38 WIT: Say at least negative 13 or higher would give me a good
39 track. Anything beyond that or higher is a lot more stable.
40
41 LT HEDRICK: At negative 19 can you track a contact?
42
43 WIT: That's more of not an ATF or automatic tracking. The
44 principle if you have a demonstrates it is kind of there, you
45 can see it but it is not going to hold a tracker that is
46 standing out, you can buzz bearings to the fire control system.
47

1 LT HEDRICK: Demonstrates is the sonar term for the visual
2 representation of the noise on a certain bearing. It is the
3 term they assign to the visual indication of a contact. ATF is
4 a part of the sonar system and that is the systems ability to
5 automatically track or follow a target. So at a-Petty Officer
6 McGiboney has stated that at about negative 13 he has confidence
7 in his system to track a contact. Below that he is relying
8 mainly on the operators ability to determine the best bearing
9 for the contact. Is that a--I don't want to put words in your
10 mouth Petty Officer McGiboney.

11
12 WIT: That is correct. Negative 13 is about where I have a
13 little more faith in the ATF.

14
15 LT JOHNSON: I apologize for side tracking from your
16 chronological thing so right now we are at 2242, sierra 13 has
17 faded at three-five-nine. Is that correct?

18
19 WIT: Yes, sir.

20
21 LT JOHNSON: I'm sorry for getting you off track. I just wanted
22 to clarify.

23
24 LT HEDRICK: Do you have other tools beside bearing to determine
25 if a gain of a contact is the same as the loss of a contact
26 other than bearing? Say sierra 13 faded three-five-nine sierra
27 13, gained three-five-nine, is there any other tools to identify
28 sierra 13 besides that bearing?

29
30 WIT: You can bring up a classification stack to analyze that
31 contact as well, which we did not have any classification on
32 that contact yet.

33
34 LT HEDRICK: Any other things that you might be able to use?
35 WIT: Obviously you can hear what is out there to see what he
36 sounds like. With merchants you could have five or six
37 merchants sounding the same. You can listen to it, sometimes
38 they have maybe a lower pitch, higher pitch broadband signature
39 than one of the others, but generically surface contacts on
40 initial gain or close to initial gain you kind of more going off
41 your bearing, but you can listen to it to see if there is some
42 aural clue to let you see the diff--if there's something
43 different.

44
45 LT HEDRICK: Do you recall what the regain was based on? Was it
46 based on bearing?

47

1 WIT: It was more based on bearing, sir.
2
3 LT HEDRICK: Thank you. Please continue.
4
5 WIT: Hold a regain of sierra one three at time 2256.
6
7 MR. WOODY: Say that again--repeat that please.
8
9 WIT: Time 2256 I have a regain of sierra one three bearing
10 zero-zero-one. And that was in a negative 11 SNR.
11
12 LT HEDRICK: A point of clarification at time 45, the ship did
13 come back and to the right roughly course north. So that would
14 be between the fade of time 42 and this gain that Petty Officer
15 McGiboney said at time 56.
16
17 WIT: Also have a gain or re-gain of sierra one two at the same
18 time, 2256 and that was bearing three-two-eight and that was a
19 negative 4 SNR ratio.
20
21 LT HEDRICK: Petty Officer McGiboney, we have now gone through
22 about 30 minutes of logs on these two contacts. Do you recall
23 any other contacts?
24
25 WIT: There was a sierra ten. Do you want me to recount every
26 contact----
27
28 LT HEDRICK: Were you tracking sierra ten at this time?
29
30 WIT: Yes sir. I was.
31
32 LT HEDRICK: You were. What was his bearing throughout most of
33 the time?
34
35 LT JOHNSON: I'm sorry. Sierra who? Ten?
36
37 WIT: Sierra one zero.
38
39 LT JOHNSON: When did we gain him cause I don't have him on--
40 I've got--right now I only show that we are talking sierra 12
41 and 13.
42
43 MR. WOODY: That's because we started at a certain time.
44
45 LT JOHNSON: Right, so we got sierra ten?
46

1 WIT: Sierra ten was gained at back at time 2140 at a bearing of
2 two-six-two.
3
4 MR. WOODY: So we started with him. We started with sierra --
5 sierra 10 was being tracked at the time we started our----
6
7 WIT: ----Re-gain and our gain of sierra 12 and 13 yes.
8
9 LT JOHNSON: What was the bearing you gained sierra 10 on?
10
11 WIT: Gain bearing was two-six-two.
12
13 LT JOHNSON: Did you class him?
14
15 WIT: Yes. He was classified later as a light craft making 526
16 turns on one three bladed screw.
17
18 LT JOHNSON: Do you have a--if this is classified certainly just
19 tell me that. Do you have a minimum range your passive sonar
20 can detect contacts. In other words is there a blind spot when
21 you get too close or can you hear them basically right up to you
22 touch them?
23
24 WIT: You can hear them up to----
25
26 LT JOHNSON: ----Obviously there is a maximum range.
27
28 WIT: Yes sir.
29
30 LT JOHNSON: But the minimum--there is no--are no blind spots
31 other than the baffles?
32
33 WIT: Baffled area sir.
34
35 LT JOHNSON: Alright, so let me get myself right, we are at
36 2256, we got a regain in sierra 12 at three-two-eight with a
37 negative 4 SNR. And we've just briefly touched on sierra 10,
38 which was gained at 2140 at two-six-two, correct?
39
40 WIT: Correct, sir.
41
42 LT JOHNSON: Okay. So back to--back to 2256 when we--can we go
43 on.
44
45 CDR CACCIVIO: So at this point in time we have three contacts
46 right now, correct?
47

1 WIT: Yes, sir.
2
3 LT HEDRICK: Let's get caught up to date at around time 56,
4 which is where we left off with sierra 12 and 13 were you still
5 tracking sierra 10?
6
7 WIT: Yes sir, I was.
8
9 LT HEDRICK: Rough bearing at that time?
10
11 WIT: 2242 he was--sierra 10 was at two-zero-two.
12
13 LT HEDRICK: How would characterize your track of sierra 10?
14 Tenuous? Constant and strong?
15
16 WIT: It has a negative 8. At that point he should have been in
17 ATF.
18
19 LT HEDRICK: Okay. Should have been or do you know if he was?
20
21 WIT: Ahh, I do not recall with sierra 10. I don't recall if we
22 were in ATF on sierra 10. I'm looking at the SNR and the logs.
23
24 LT HEDRICK: Very well. Continue on from time 05.
25
26 LT JOHNSON: Can you clarify ATF?
27
28 WIT: Automatic tracker following where the system will do it
29 automatically and send that information to fire control.
30
31 LT JOHNSON: Okay.
32
33 LCDR SANTOMAURO: What I would like to do is once we get through
34 either three or six minutes is just do a summary of the actual
35 overall picture of where we are at and then we could--you know,
36 ships course of speed, the contacts that we held and what their
37 bearings were and possible ranges. Just a summary after I'd say
38 three to six minutes.
39
40 WIT: Okay. We logged roughly every fifteen minutes on surface
41 contact unless there is a significant event as in he goes into
42 baffles, a regain, shuts down, otherwise it is every fifteen
43 minutes.
44
45 LT JOHNSON: Are--are there any other contacts-- I guess I'm
46 asking this to the interviewers here as well--are there any
47 other contacts that go into the mix prior to this? Can we go

1 ahead and do that now so we don't get confused. Were you
2 tracking anybody else that is relevant to this? We originally
3 started this at time 2230. Is there anybody else that you were
4 tracking prior to that that is important that we put into the
5 mix right now?
6
7 WIT: No, sierra 11, the other contact was faded at time 2213.
8
9 LT JOHNSON: And there was never a regain on sierra 11?
10
11 WIT: I never regained sierra 11.
12
13 LT JOHNSON: Okay, so right now all we that you have that are
14 actively tracking is 10, 12 and 13, correct? With 13 popping in
15 and out?
16
17 WIT: Yes, sir.
18
19 LT JOHNSON: Okay and there is no--I want--okay.
20
21 WIT: The last bearing-I'll make it easier--for sierra one zero,
22 time 2246 was one-seven-four when we placed him into the
23 baffles. After that we never regained sierra one.
24
25 LT JOHNSON: One one?
26
27 WIT: I'm sorry. Or excuse me one zero.
28
29 MR. WOODY: I'm sorry, the bearing?
30
31 WIT: It was one-seven-four.
32
33 LT HEDRICK: At time 56 you'd said you had just gained sierra 12
34 and 13. Sierra 12 bearing three-two-eight minus 4 SNR, sierra
35 13 bearing zero-zero-one. You did not state an SNR. Can you
36 tell as the sonar supervisor at this time what you--what you
37 thought of your contact picture. You know, if I was the
38 Officer of the Deck, or the XO, or the CO and I walked into the
39 sonar shop and I say what do we got sup?
40
41 WIT: Okay, sierra 12 and 13 I both had towards the north. And
42 I had one guy that--sierra ten we had just into the baffles down
43 towards the south. I had two contacts north, one to the south
44 and at that point we were getting ready to start, if not
45 already, the turns to show how a ship could maneuver. I had two
46 contacts and I would have said that the rough range, just based
47 on the bearing rate, was probably excess of about 10,000.

1
2 LT HEDRICK: So still evaluating both contacts in excess of
3 10,000 yards?
4
5 WIT: Correct, sir.
6
7 LT HEDRICK: Okay. Please continue.
8
9 WIT: That was 2256 on the gains. The next time mark, roughly
10 fifteen minutes, will be 2311 where we have sierra one two
11 bearing three-three-four and sierra one three bearing zero-zero-
12 seven.
13
14 LT HEDRICK: Any additional thoughts on these contacts during
15 these--that fifteen minute period? Any ability to additionally
16 classify them? Any more analysis that you did? Do you recall
17 passing on anything out to control other than the bearings that
18 are automatically sent to fire control and did you ever discuss
19 any of these contacts with the officer of the deck or report
20 them?
21
22 WIT: No sir. No additional information was sent out. Like I
23 said, I believe we were getting close--look at the logs--were
24 getting close to where we are starting to move the ship back and
25 forth and I believe change speeds. At that point you not
26 bringing up your classification stack as much because you want
27 the safety of the ship--the broadband displays to be up so you
28 can watch for anything that may be abnormal or different.
29
30 LT HEDRICK: The logs show a minor course change time 1304 to
31 the right to course zero-two-zero time 1315 increasing speed to
32 standard and coming shallow to one-five-zero. That is actually
33 after the last point Petty Officer McGiboney said so. If you
34 would continue please with 2211.
35
36 LT JOHNSON: Do you re-evaluate your contact picture with depth
37 changes? In other words, what did you say you log every fifteen
38 minutes, is that correct?
39
40 WIT: That is correct, sir.
41
42 LT JOHNSON: If you have a depth change and it doesn't fall on
43 your fifteen minute normal routine log, would you still do a
44 look around at your contacts going from say 600 feet to 400 feet
45 to 150 feet? Would you reassess everything at 150 feet?
46

1 WIT: Yes sir. You'll look at the broadband displays, but you
2 won't log any data or remarks section. You'll just basically
3 look at it.

4 MR. ROTH-ROFFY: We would like to take about a five-minute break
5 here for--to use the head or whatever we need to do. Thank you.
6

7 MR. ROTH-ROFFY: Okay, the time is now about 1034 and we are
8 resuming our interview with Petty Officer McGiboney.
9

10 LCDR SANTOMAURO: We stopped at in the timeline of 2311 zulu and
11 we had bearings to sierra 12 and sierra 13 to the north at
12 three-three-four--three-three-four true for sierra 12, sierra 13
13 at zero-zero-seven.
14

15 WIT: Correct. The next time mark I have would be 2325, sierra
16 13 was bearing zero-zero-nine and sierra 12 was bearing three-
17 two-zero and those were a fade bearing.
18

19 LT HEDRICK: On both contacts?
20

21 WIT: Yes sir, on both contacts. 1325 they're one-four-zero----
22

23 LT HEDRICK: So both contacts faded as you came around to the
24 right to course one-four-zero?
25

26 WIT: Correct. That would--by looking at the course change, the
27 log ticker it looks like they should have gone in the baffles.
28 It looks like we made a course change to one-four-zero.
29

30 LT JOHNSON: Do you note that in your logs there that the
31 contact fades due to baffle noise or due to SNR?
32

33 WIT: It is suppose to be F for faded as in he has faded or I,
34 into the baffles as in it went into the baffles.
35

36 LT JOHNSON: Is that how you logged your setup?
37

38 WIT: Yes sir. That is how it is suppose to be. I've got a
39 under instruction, or at that time, had a under instruction guy
40 on my workload share stack that had a guy behind him and he was
41 taking logs. He put faded instead of into the baffles. Because
42 it says fade----
43

44 LT HEDRICK: You are your saying your best recollection is not
45 the fade that the log indicates, but that you had sufficient SNR
46 and were tracking the contact, but that you lost him because of
47 ships maneuver he is not in the circled baffled area?

1
2 WIT: Yes sir. At this point we are doing angles, dangles. We
3 are turning left and right basically to show what the ship can
4 do to the guests that were onboard--for the guests that were on
5 board. I don't know. I would have to ask him. If he put F for
6 when he dropped the contact or if he meant I. I would have to
7 ask him.
8
9 LT JOHNSON: Do you make that report to the conn if you lost him
10 in the baffles or they faded? Do differentiate when you report
11 that to the conn?
12
13 WIT: Normally you do, sir. If we were normal operation moving
14 through the water just like you would to gain a contact, you'd
15 say--in this case say 12 entered the baffles at this bearing or
16 was placed in the baffles at this bearing. With the numerous
17 course change and back and forth, that would have been a lot
18 information over the twenty-seven MC with the one MC.
19
20 LT JOHNSON: And that is where I am going with that because of
21 the extensive maneuvering that was going on it is just something
22 not typically----
23
24 WIT: Not typical, that is correct.
25
26 LT JOHNSON: And that is fine. I just wanted to make sure. I
27 didn't think that it was and that is what I wanted to bring out
28 for the record that that is not a normal report that is made.
29
30 LT HEDRICK: Thank you. We are at 2325.
31
32 WIT: I have a regain of sierra one three bearing zero-zero-
33 four.
34
35 LT HEDRICK: Time?
36
37 WIT: That was 2328.
38
39 LT HEDRICK: At time 27 the ship came back left to course north.
40
41 WIT: And I have regain of sierra one three, excuse me, 2330 I
42 have a regain of sierra--I don't have a regain of sierra one two
43 yet. 2330 sierra one three was bearing zero-zero-eight F eight
44 and I----
45
46 LT JOHNSON: That is four degrees in two minutes. Does that
47 give you any range indication there?

1
2 WIT: Real roughly they have a formula where you can divide your
3 bearing rate into a number of 20 its course range and that would
4 indicate about 10,000 yards.
5
6 LT JOHNSON: So in this case, 4 degrees in two minutes gives you
7 about 10K?
8
9 WIT: Yes sir. And once again like you mentioned earlier, it
10 takes a little bit for the trackers to stabilize, but that is a
11 rough range.
12
13 LT HEDRICK: Do you recall--you had another gain and fade and
14 some contact among ship maneuvers do you recall what you thought
15 this contact was doing at this time? A rough course speed range
16 type thing now that you've had on and off contact from him for
17 over an hour now?
18
19 WIT: Early on I had a fairly comfortable feeling he was towards
20 the east or easterly type course. I didn't have time to really
21 get any solid course on the contact.
22
23 LT HEDRICK: This fade at 2330 for sierra 13 at 2328 the ship is
24 executing a course change with a full rudder to one-two-zero
25 does your log show this contact fades or is that I for it goes
26 into the baffles.
27
28 WIT: It shows fade again, sir.
29
30 LT HEDRICK: It doesn't show into the baffles?
31
32 WIT: No sir.
33
34 LT HEDRICK: Do we think that maybe that was a little in error,
35 that maybe it really did get into the baffles?
36
37 WIT: It could have been. I'd have to check to maneuvers----
38
39 LT HEDRICK: If you roll and come to one-two-zero is that going
40 to put that particular bearing in the baffles?
41
42 WIT: It will put it right at the edge of the baffle.
43
44 LT HEDRICK: Yeah, so zero-zero-eight and one-two-zero put it at
45 the edge of the baffles?
46

1 WIT: Yeah, yeah, one-two-zero to the baffles would technically
2 start at zero-zero-zero true.
3
4 LCDR SANTOMAURO: The officer will order up headgear on a head
5 flank with a cavitate so it is probably going to be a little bit
6 noisier.
7
8 LT HEDRICK: Technical clarification. Several references to the
9 baffles being the 120 degrees centered on the ships stern, is
10 that a hard fast number 120.0 degrees, 60 degrees to either side
11 of the stern?
12
13 WIT: No sir. The higher you go up into the sphere itself,
14 sometimes you can catch a little further or more information
15 than if your locked at one-two-zero and you go a little bit
16 farther in the baffles. Also when you go farther down on the
17 sphere--on the negative side of the sphere you can get a little
18 more information as well. If the contact is strong, very loud
19 SNR, you can track sometimes into the baffles a little bit. The
20 bearings are going to be a little bit fuzzy just based on that
21 it is in that baffled area it is not as accurate, but you can
22 track.
23
24 LT HEDRICK: Thank you for the technical clarification.
25
26 WIT: At 2332 I have a regain of sierra one three, same bearing
27 as fade, zero-zero-eight.
28
29 LT HEDRICK: The deck logs show that at 2331 the ship has
30 maneuvered back to a northerly course, has slowed down from
31 flank to full and two-thirds it was also coming shallow to one-
32 five-zero eight.
33
34 WIT: And at the same time have a regain of sierra one two
35 bearing three-one-three. Both these contacts at that regain was
36 about sierra one three was a negative eight SNR; sierra one two
37 was a negative nine SNR.
38
39 MR. WOODY: What was the bearing on 12?
40
41 WIT: 12 the bearing was three-one-three. Same time, time 2332
42 gained a sierra one four, surface contact at bearing three-five-
43 eight.
44
45 LT HEDRICK: Gain as a surface contact obviously that is an
46 operator gaining and logging. Do you recall if you yourself
47 listened to this contact, sierra one four.

1
2 WIT: I do not recall if I listened to sierra one four.
3
4 LT HEDRICK: Did you say it was a surface contact?
5
6 WIT: A surface contact, yes sir, it was.
7
8 LT HEDRICK: And the SNR on it?
9
10 WIT: It was a plus one.
11
12 LT HEDRICK: Did you get any class out on this screw blade?
13
14 WIT: No sir. This is--once again we are doing angles and
15 dangles and at that point we are focusing on any new dynamic
16 changes to----
17
18 LT HEDRICK: Do you normally get screw blade when you pick up
19 something out there to help you class it?
20
21 WIT: Not initially, but later down the road or in time you can
22 get that information.
23
24 LT HEDRICK: What do you have at your disposal to help get you
25 that?
26
27 WIT: Items we can use, we--for our system right now we have to
28 modify our workload share stack where you only can listen to
29 four DEs at a time and cut the contact that you want to class--
30 -
31
32 LT HEDRICK: Do you mean like a spectrum analyzer or a noise--
33 some video?
34
35 WIT: You can use a spectrum analyzer but it is not right there.
36 Well it is kind of a spectrum ana--it is our low fire display
37 which has a certain frequency spectrum or coverage or as well it
38 will analyze the screw blade in what we call our demon
39 information so you can put both those up to help classify a
40 contact.
41
42 LT HEDRICK: Demodulated---
43
44 WIT: ----Sound, yes sir.
45
46 LT JOHNSON: Right. Did you have all your equipment available
47 to you?

1
2 WIT: That was available. We could have placed that up. Once
3 again with angles and dangles, the operator is more focused on
4 any dynamic changes of anything we have before we go put that up
5 and with the course changes. If we were steady speed, course or
6 slight changes then we're going to put that up to get that
7 classification data. At this point we are moving back and forth
8 fairly rapidly.
9
10 LT JOHNSON: Did you have all your sonar equipment available to
11 you?
12
13 WIT: No sir. The BQR-22----
14
15 LT JOHNSON: Which is a?
16
17 WIT: A spectrum analyzer itself if you can analyze a contact
18 without interrupting those two stacks.
19
20 LT JOHNSON: When would you normally use that piece of
21 equipment?
22
23 WIT: Normally you don't--that's used for--when I leave it on is
24 normally if there's active out in the water or you have a chance
25 to get active we'll leave one of the hydrophones patched in
26 through a patch panel to that BQR-22 so if you do get that we
27 can analyze how far that active signal is based on the bottom
28 bounce, direct path, time interval----
29
30 LT HEDRICK: ----Yeah, so that analyzer actually helps you get a
31 range?
32
33 WIT: For active, not just for----
34
35 LT HEDRICK: ----For active, but not for passive?
36
37 WIT: Correct sir.
38
39 LT JOHNSON: So I'm not going to go anywhere with that. When
40 would you--I'll tell you what, just go ahead with this and I'll
41 have--I'll state that because I don't want to confuse the issue
42 here. So we are at 2332, you just picked up sierra 14 at three-
43 five-eight at a plus one SNR?
44
45 WIT: Correct, sir.
46

1 LT HEDRICK: Do you recall if that gain was reported to the
2 control room?
3
4 WIT: I cannot recall.
5
6 LT JOHNSON: Are all contacts normally reported?
7
8 WIT: They are normally reported out.
9
10 MR. WOODY: On your BQR-22, do you sometimes pick up other
11 ship's depth sounders?
12
13 LT HEDRICK: There is potential classification issues involved
14 once we start asking about specific frequency responses of
15 equipment. Petty Officer McGiboney, please keep your answer
16 general. Don't refer to specific frequencies, frequency ranges
17 and sensitivity of equipment. You could probably answer the
18 question on whether or not you would normally see interference
19 from other merchants or whether you would not expect that to be
20 the case, based on the line up that you had. Don't go into a
21 discussion of all the possible line-ups in place.
22
23 WIT: Twenty-two is not where you would see that data. You
24 could see that on a WR-9 our acoustic interceptor. I don't know
25 if I can keep into--if I get closer I may see something not
26 frequency wise--but can I get into that on the 9.
27
28 LT HEDRICK: I don't think that is needed. I think the question
29 was Mr. Woody was concerned whether or not these other contacts
30 in the area would significantly interfere with the operation of
31 the BQR-22 and I think it is safe to say that Petty Officer
32 McGiboney's answer is umm--under almost all normal operational
33 circumstances, including this one, that answer would be no.
34 There are some very unique and specific phenomenon that he
35 would be aware of that might present something else.
36
37 WIT: Here by that point, I think we---I'd have to look at the
38 courses, but it's got to be near the baffle clear to be
39 periscope depth. I'll take a look.
40
41 LT HEDRICK: 32?
42
43
44 WIT: I'm at time---I'm getting ready to go to time 41 in the
45 logs.
46
47 LT HEDRICK: Okay.

1
2 WIT: 32 to 41.
3
4 LT HEDRICK: Well before we take a look at the logs and hash all
5 that out, why don't you please tell us--I think it would be
6 appropriate to take a few minutes here and tell us what happened
7 as far as preparations for your baffle clear on your way to
8 periscope depth.
9
10 LT JOHNSON: Can I ask something before we even get to that far.
11 Did you know--are you able to come up and figure approximate
12 courses and speeds for these contacts? I know they are coming
13 in and out a lot. You're angles and dangles and you are
14 maneuvering a lot. Were you at any time able to come up with a
15 you know, sierra 13 is on course X at Y knots?
16
17 WIT: Not any specific solution. I had a kind of feel for range
18 and I had a--sierra 13 was kind of eastish. I didn't have an
19 exact course, but sierra 12 I had it going a little bit towards
20 the west. I didn't have exact courses of that.
21
22 LT JOHNSON: Sure. You didn't do any of the solution. In your
23 logs over there--I forgot what you told me a while ago, I
24 didn't write it down, do you make annotations as to depth
25 changes as to where you are in the water column when you pick up
26 these contacts?
27
28 WIT: No sir.
29
30 LT JOHNSON: You don't?
31
32 WIT: No sir.
33
34 LCDR SANTOMAURO: When you say eastish, you mean right bearing
35 rate? When you say west, you mean left bearing rate?
36
37 WIT: Yes sir.
38
39 LCDR SANTOMAURO: We are getting ready to go to periscope depth.
40 Can you tell me whether or not the Officer of the Deck called in
41 the--the watchstanders to discuss the periscope depth operation
42 that was upcoming, the purpose of this periscope depth evolution
43 and did he give any prior instructions prior to this periscope
44 depth period preparation?
45
46 WIT: No sir. We did--I did not recall being called out towards
47 the control room area for a brief.

1
2 LCDR SANTOMAURO: Normally, before you go to periscope depth, do
3 you or do you not hold a periscope depth briefing prior to going
4 up?
5
6 WIT: Yes sir. You do hold a brief. The Officer of the Deck,
7 the sonar supervisor, the radioman of the watch, the SM of the
8 watch and the fire controlman gather in control as the diving
9 officer of the watch, chief of the watch are obviously here and
10 they need to raise the master antenna, but there is a brief
11 normally held.
12
13 LCDR SANTOMAURO: Was it clear in your mind prior to this
14 periscope depth operation with the purpose of this excursion the
15 PD was going to be or can you tell me what you thought you were
16 going to PD for?
17
18 WIT: I believe I heard it through the--over the LMC, but we
19 are going to do a baffle clear, we are going to take a look
20 around because we knew the emergency blow was coming shortly.
21 Going to do a look around, then we go a little higher in the
22 water to a high look around, go straight down and come straight
23 back up. I knew that was the next events, but it was not--I
24 don't remember it being told to me. I don't remember--I can't
25 remember if I heard it on the LMC that that is what we were
26 getting ready to do. It wasn't addressed to me we are doing a
27 baffle clear that I remember.
28
29 LCDR SANTOMAURO: So either the Officer of the Deck, the XO, or
30 someone told you that you were going to do a look around and
31 then a high look around also? You did remember hear----
32
33 WIT: No sir. I don't remember hearing them tell me they are
34 doing a high look around. That is normally what is done and that
35 is kind of what I heard over the open mike as we changed depth
36 higher in the water and that is what we were doing, but I don't
37 remember them telling me that's what we were doing.
38
39 LCDR SANTOMAURO: So you had no prior knowledge before you went
40 to PD as to what scenario was going to be up there is what I am
41 saying?
42
43 WIT: No sir. I was not specifically told. We did not hold a
44 brief.
45
46 LT JOHNSON: This is LT Johnson. When you have these briefings
47 for periscope depth, what is normally discussed in those?

1
2 WIT: Ahh, contacts that are held. You are going to do what is
3 the intention are we going to transmit, are we going to receive
4 through radio, the ESM operators will ask me maybe how many
5 contacts I have out there, he'll look at the CEP plot so he can
6 get an idea what he might see as in what type of signal strength
7 or what type information he'll pick up. If there's going to be
8 any evolutions while were done up there. We are going to want--
9 if we need to bring on water, if we need to get rid of anything
10 off the boat. Whatever evolution is going to be happening. We
11 want to do a surface ventilate or ventilate where we bring air
12 into the ship to kind of change the air in the boat. Whatever
13 is going to happen normally----
14
15 LT JOHNSON: Is this important information for you? Is this
16 briefing--you're a sonar supervisor, do you in your supervisor
17 role consider this briefing prior to periscope depth important
18 to you in the function of your duties to know the----
19
20 WIT: ----Not every particular part----
21
22 LT JOHNSON: ----Right. In general, I'm just talking in general.
23 Just so you have a big picture?
24
25 WIT: In general, yes sir.
26
27 LT JOHNSON: Umm, any ideas as to why it wasn't conducted this
28 time?
29
30 WIT: I can only assume, sir. It is an aid.
31
32 LT JOHNSON: I don't want you to do that. But you don't have
33 any reason? Do you--is there a specific written instruction or
34 procedure on the vessel that requires this briefing to be
35 conducted, any guidance?
36
37 WIT: There should be a CO--a Commanding Officer standing order.
38
39 LT JOHNSON: Would you happen to know--have you ever read the
40 standing order?
41
42 WIT: Yes, sir. I have read it, but I----
43
44 LT JOHNSON: And it requires this?
45
46 WIT: I'm not sure which number, but there is one that talks
47 about having briefs before major evolutions.

1
2 LT JOHNSON: Did--prior to coming to periscope depth in the
3 absence of this--obviously re--normally required briefing, did
4 the OOD contact you as the sonar sup direct and say, hey sup,
5 give me a contact picture. What have I got? So he would know
6 where to focus his efforts once he does his quick sweep, in
7 order to focus his efforts to locate these contacts visually?
8
9 WIT: No sir. Did not get that.
10
11 LT JOHNSON: He never requested----
12
13 WIT: At that time the XO was in sonar for that baffle clear. I
14 don't know if he--I'm not sure.
15
16 LT JOHNSON: Did the XO ever request a complete sonar picture
17 from you?
18
19 WIT: No sir.
20
21 LT JOHNSON: Did the CO ever request one from you?
22
23 WIT: No sir.
24
25 LT JOHNSON: Did anyone ever ask you what you had on the surface
26 before going to periscope depth.
27
28 WIT: No sir. The only thing that we were kind of concerned
29 about in sonar, at that time, obviously contacts but sierra 10
30 it was the closer contact. We asked fire control, "Where do you
31 have this guy," because we don't have exact ranges. Where do
32 you have for a solution on sierra 10? He said he was opening
33 and of course he faded.
34
35 LT JOHNSON: Do you happen to remember the ESM watch stander
36 made a tour to sonar or came by, just stop in and say hey, you
37 got anything I might be interested in?
38
39 WIT: I had myself, the Executive Officer, and the over
40 instruction of my workload share operator that was sitting
41 there. I don't recall anybody opening the curtain beyond me
42 asking him to ask fire control about sierra 10.
43
44 LT HEDRICK: Who asked fire control about sierra 10?
45
46 WIT: That would be the over instruction of watch of the work
47 load share. You'll have him on the interviews.

1
2 LT JOHNSON: You say that this is--this is--is kind of abnormal
3 not to have this required briefing. Did that make you a little
4 uneasy at all or did you feel like everything is going along
5 pretty good. We've got a really good feel for where all the
6 ships are or were you----
7
8 WIT: I felt comfortable with seeing the pictures I had in sonar
9 with my bearing rates, the contacts with the exception of 10,
10 which I didn't have a warm fuzzy on distance or range on. I
11 felt comfortable in what I had.
12
13 LT HEDRICK: You already discussed sierra 10. What did you have
14 sierra 12 and 13? You said you felt comfortable so what were
15 you thinking?
16
17 WIT: I was thinking they were outside of 10,000 yards. I
18 didn't have anything to indicate they were any closer.
19 Normally, like I said, you can--if you get a bottom bounce trace
20 it starts to show up and they show up in the lower DEs that
21 indicates they are closer. I can't get into range, but at a
22 certain point, if a contact has a bottom sounder on or a fish
23 finder on, there are systems that will alert to tell me hey,
24 this is here. If I get those where I can even see them, then I
25 am not going to sit there and say-- if I see those come up, I am
26 going to say hey, I got this at this bearing. That tells me and
27 the control room that there is something close because fish
28 finders and bottom sounders don't go that far in the water.
29
30 LT JOHNSON: Yeah, they are pretty much up and down----
31
32 LCDR SANTOMAURO: Do you cons----
33
34 LT JOHNSON: Did you hear any engine noises, any mechanical
35 noises?
36
37 WIT: Beyond the normal broadband energy that I was hearing on
38 the contacts.
39
40 LCDR SANTOMAURO: What do you consider closer? You are going to
41 making a baffle clear, upon your completion of the baffle clear,
42 if you saw the Officer of the Deck going to periscope depth and
43 you thought you had a contact that would place the ship in
44 extremis, what distance--what range would you consider that to
45 be?
46

1 WIT: I consider being close just is kind of, I'd say under eight
2 to seven thousand yards. That--that's close. Just with speed
3 at periscope depth it is a little bit slower, but with ships
4 speed you can close at a rapid time depending on how fast you
5 want to travel and depending on where he is going. But
6 somewhere around six to seven thousand yards is close to me.
7
8 LCDR SANTOMAURO: So with the picture that you had, you felt
9 comfortable going to periscope depth?
10
11 WIT: Yes sir. I did.
12
13 LT HEDRICK: You talked about a reference to a CO standing order
14 that talked about pre-evolution briefs or significant
15 evolutions. In your experience, recent experience onboard the
16 GREENEVILLE, were periscope depth briefs normally conducted
17 prior to going to periscope depth?
18
19 WIT: Yes sir.
20
21 LT HEDRICK: Were you as sonar supervisor part of those?
22
23 WIT: Yes, I have been sir.
24
25 LT HEDRICK: How long have you been standing the sonar
26 supervisor on the GREENEVILLE?
27
28 WIT: This boat, roughly about three years.
29
30 LT HEDRICK: Roughly about three years. In your previous three
31 years of standing sonar supervisor, during those three years,
32 was GREENEVILLE operational the entire time or were you in
33 shipyard?
34
35 WIT: We went to a three or two and a half to three month----
36
37 LT HEDRICK: Let me rephrase my question. Ball park number,
38 hundred, two hundred, thousand, about how many times to you
39 think you've taken the GREENEVILLE to PD as sonar supervisor?
40
41 WIT: I don't even have a clue, a lot. I have no idea.
42
43 LT HEDRICK: Okay, so let's just say three hund--let's say two
44 hundred times, just for a ballpark number.
45
46 WIT: Yes, sir.
47

1 LT HEDRICK: If it was two hundred, if it was two hundred, how
2 many of those time do you think you did a periscope depth brief
3 prior to going up?
4

5 WIT: Almost all of them. I would say 95 or better percent and
6 if it wasn't, it was briefed over like an open microphone maybe
7 due to what you were doing.
8

9 LT HEDRICK: Okay, so between formally going out to control for
10 a periscope depth brief and a brief over the open mike were you
11 didn't leave sonar, what would you say the number of times was
12 that the ship just went to periscope depth without you as sonar
13 sup having any fore knowledge.
14

15 WIT: I don't recall any.
16

17 LT HEDRICK: You don't recall any? Okay, it might have been one
18 or two but you don't recall any.
19

20 WIT: I don't recall any.
21

22 LT HEDRICK: Okay. That is all I was trying--I was trying to
23 get a rough idea that is why I wasn't trying to pin you down to
24 a certain number. What was the first indication that the ship
25 was going to periscope depth or intended to go to periscope
26 depth?
27

28 WIT: That is called over the open microphone, which we have a
29 speaker in sonar and they'll say, "All stations proceed to
30 periscope depth".
31

32 LT HEDRICK: And you heard that on February 9th?
33

34 WIT: Yes I did, yes.
35

36 LT HEDRICK: And that was your first indication that the ship
37 was intended to come shallower than 150 feet or did you have any
38 other indications prior to that that you felt you might be going
39 up.
40

41 WIT: I can say I remember--I can't remember if it was the 1MC,
42 I knew that's what was getting ready to happen, just by how much
43 time before we pull into port. I think and like I said I'd have
44 to--I don't remember every 1MC, but I thought they were talking
45 about we're getting--making preparations to go emergency blow
46 and there were different things that were being said over the

1 1MC because I heard we were getting ready. I just didn't know a
2 lot of the things that were going to go with that.

3

4 LT HEDRICK: Okay and that hearing that you were getting ready
5 that gave you a sense that you might be going to periscope
6 depth, are you talking that you had that feeling a minute or two
7 before you went to six zero feet, five minutes, fifteen, thirty?

8

9 WIT: I don't--I don't recall. It wasn't that long because as
10 soon as we stopped our angles and dangles and driving the boat
11 around, we steadied up--I don't know how long, it wasn't too too
12 long and that's when we're--I think you take two legs and not
13 have to look at the track again to get like bearing rates and
14 solutions for fire control out there for the Officer of the
15 Deck. I don't recall the time span on that.

16

17 LT HEDRICK: Not trying to do a reconstruction, trying to
18 remember what you were feeling at the time when you heard--you
19 did say that you heard the Officer of the Deck, proceed to
20 periscope deck or dive make your depth six zero feet? You guys
21 hear that out in the open mike?

22

23 WIT: Yes, sir.

24

25 LT HEDRICK: When that was said, what were you thinking with
26 regards to a baffle clear maneuver? Was one done, was it
27 sufficient?

28

29 WIT: One was done. We had turned to the right. I don't know
30 the exact course we had come to, I'm not sure the exact course
31 we were on----

32

33 LT HEDRICK: Do you feel it was a sufficient baffle clear as
34 sonar supervisor?

35

36 WIT: Yes sir. We had turned at least 120 degrees. I don't
37 know the exact courses.

38

39 LT HEDRICK: Once again trying to remember how you felt at the
40 time because you said you are not exactly sure what or at what
41 point you felt you would probably be going to periscope depth,
42 once you were aware you were going up you've said that you felt
43 a sufficient baffle clear maneuver had been accomplished.
44 During that maneuver, were you thinking as that maneuver was
45 occurring that hey, this is the baffle clear probably before
46 going to periscope depth?

47

1 WIT: I felt that was a baffle clear. I can't remember hearing,
2 this is our baffle clear.
3
4 LT HEDRICK: Right, but as this maneuver was occurring, do you
5 recall if you were thinking hey, this could be the baffle clear?
6
7 WIT: Yes sir. I felt that was the baffle clear.
8
9 LT HEDRICK: You felt it was? Did anybody state that to you at
10 any point?
11
12 WIT: I can't recall, sir.
13
14 LT HEDRICK: Don't recall?
15
16 WIT: I do not recall.
17
18 LT JOHNSON: Are you normally notified by the conn when they
19 change--sonar, conn, you know, changes course to umptyfrats to
20 clear baffles to make you more attentive to search in that
21 particular area?
22
23 WIT: Yes and that is the ordinary--I can't remember if I--when
24 I heard it, if I heard it. I can't remember.
25
26 LT JOHNSON: Right, but you are normally notified of that?
27
28 WIT: Yes I am.
29
30 LT JOHNSON: Let me ask you--umm--you know where--umm--if you
31 wanted to get a better range or--or--what is more accurate for
32 you, an accurate sonar, a passive sonar, a contact detection, in
33 ranging information, what would be--which active or passive
34 would prove more beneficial to you as a sonarman?
35
36 WIT: A lot of variables. Umm----
37
38 LT JOHNSON: ----Sure. Generally.
39
40 WIT: Generally, anything close and active will work. The
41 farther something out is depends--I can't get into type pulse---
42 -
43
44 LT JOHNSON: Sure, understand.
45
46 WIT: The pulse you are going use----
47

1 LT JOHNSON: Let me rephrase the question for you the way I
2 think can answer it. Can active sonar detect contacts that
3 passive sonar will not hear?
4
5 WIT: If they are sitting in the water, they are not moving,
6 making noise, yes active can pick that up.
7
8 LT JOHNSON: Active sonar has a better chance of detecting
9 contacts than just relying on sound emitted from the other ship?
10
11 WIT: I wouldn't say better. I would say it is another way to
12 detect--if the contact is moving in the water, making noise in
13 the water, that's going to show up on the screen. You've got a
14 bearing over time it could be processed. I don't know all the
15 intimates of the fire control system----
16
17 LT JOHNSON: ----Yeah, and I don't want to get into that----
18
19 WIT: ----But it can be tracked and analyzed.
20
21 LT JOHNSON: Have you ever used active sonar on the sub?
22
23 WIT: I have used active sonar. It is something we don't do
24 commonly.
25
26 LT JOHNSON: And why would you--can you talk--I don't know--
27 don't want to get into classified stuff----
28
29 WIT: Most of it is training.
30
31 LT JOHNSON: Just for training? And you are able to get very
32 good contact information out of that active sonar?
33
34 WIT: Ahh, once again it kind of depends on a couple of factors
35 of the water.
36
37 LT JOHNSON: And what you said a while ago-I want to make sure
38 I've got--my notes are correct here and I'm not misunderstanding
39 you is that active sonar would prove very beneficial in aiding
40 you in detecting a contact that say might just be sitting still
41 in the water, not running----
42
43 WIT: Correct, if it is sitting still in the water it could and
44 it depends on and I can't go why or how, but ra----
45
46 LT JOHNSON: ----I understand. But if you were in an area that
47 had numerous small boats and close to shore that could be out

1 fishing, swimming, doing whatever, your passive sonar would
2 probably not hear it if they weren't actually engaged in some
3 mechanical engine noise or screw noise, but the active was.
4
5 WIT: You can also with the active pulse transmitting, you'll be
6 able to see the contact, but you also got to--you don't look at
7 it well if it is in the water, but that's----
8
9 LT JOHNSON: ----Right, but the active is going to give you a
10 better picture----
11
12 WIT: ----It could----
13
14 LT JOHNSON: ----It is going detect things that aren't actually
15 moving.
16
17 LT HEDRICK: He said it could.
18
19 WIT: It could.
20
21 LT JOHNSON: I understand.
22
23 WIT: Just depending on a lot of factors.
24
25 LT JOHNSON: Do you--when you are doing the safety search of the
26 surface, do you--would you normally use an active sonar?
27
28 WIT: As in when we are at periscope depth?
29
30 LT HEDRICK: Yes, not at 150 feet, but prior to, would you use
31 it?
32
33 WIT: Not prior to. It is not a normal----
34
35 LT JOHNSON: What is the purpose of not using an active sonar?
36 You obviously have it onboard the vessel, why don't we use it?
37
38 WIT: The better way to track something is passively so we get
39 that information out to fire control. When you active in the
40 water, the operator on the broadband display has to cut his
41 hearing down to about in half because when you send that active
42 pulse in the water, that frequency data sitting out there and it
43 is going to mess up your display----
44
45 LT JOHNSON: Your passive displays?
46
47 WIT: Right.

1
2 LT JOHNSON: What about your active displays? Do you have
3 active displays?
4
5 WIT: You will have an active display, but it doesn't look like
6 our broadband display. It is totally different.
7
8 LT JOHNSON: But why don't submarines use active--I mean----
9
10 CAPT KYLE: What else do you get when you go active? You get
11 just the contact data or do you get other data? Your experience
12 going active, what else did you see in the active display?
13
14 WIT: A lot of times you are getting a lot of reverberation from
15 whatever may be in the water. Anything from the bottom, the
16 fish, to the surface noise, to--whatever may be just in the
17 water----
18
19 LT JOHNSON: Can you differentiate between those when you get
20 that or is that something you can't really tell the difference
21 in?
22
23 WIT: If you get a contact and you hit it with active really
24 strong and you get a strong return you can really tell okay I've
25 got something solid there. The active if you hit fish or
26 something, you'll get a return, you'll hear a return, but it's
27 not as defined maybe as if you hit something say broad sided
28 with the active. If it is a small angle, you may not be able to
29 hit it as well. It will show up as something else. A lot of
30 factors that you may not see--you may not get a good picture.
31
32 LT JOHNSON: But it gives away the location of the submarine,
33 which is that not an overriding factor why submarines don't use
34 active sonar.
35
36 WIT: That--yes, sir that is.
37
38 LT JOHNSON: When you do a EMBT blow, are you putting a lot of
39 noise into the water just the evolution from what you said
40 earlier?
41
42 WIT: Yes sir. Once we got up, did our periscope, came back
43 down, once you hit the blow switches that is going to put all
44 the 4500 pounds of air pressure into the tanks, which is
45 obviously very loud behind the sphere. It is going to blank out
46 things going on until that air kind of settles out.
47

1 LT JOHNSON: Do you guys--when you dump this air to the ballast
2 tanks do your sonar watchstanders normally take their earphones
3 off because it is so loud?
4
5 WIT: Well, they don't really have to take them off. They kind
6 of lean them forward----
7
8 LT JOHNSON: Well I did--I just took mine off because it would
9 blow my ears out.
10
11 WIT: It is kind of loud.
12
13 LT JOHNSON: Is it safe to say or I'm asking you do they--if the
14 active sonar is basically a tactical disadvantage to you right?
15
16 WIT: Yes, sir.
17
18 LT JOHNSON: Because it puts noise in the water? This EMBT
19 blow, does it put a lot of noise in the water or just a tiny bit
20 of noise in the water?
21
22 WIT: I would say a lot of noise.
23
24 LT JOHNSON: A lot of noise? Is the submarine blowing its
25 ballast tanks with the EMBT blow at 400 feet going to give its
26 position away?
27
28 WIT: I'm sure it will.
29
30 LT JOHNSON: Sure it will. We--and so that's wh--we are
31 thinking tactical issues now, right?
32
33 WIT: With the active sonar, when you are transmitting out you
34 have a certain level decibels that it is sending out--it is the
35 sphere itself. When you send that signal out, the broadband
36 display will stop momentarily so it can get out and then it is
37 ready to listen again. But you are transmitting that sound over
38 a period of place at a certain decibel level, then the sphere is
39 not going okay I've heard this right in front of me, it's
40 blanked it out why the initial send is going. The blow is more
41 so behind the sphere that is something the sphere can't just
42 kind of blank out. It affects the sphere more so than the
43 active did.
44
45 LT JOHNSON: Were you guys in a tactical situation out there
46 doing this?
47

1 WIT: No sir.
2
3 LT JOHNSON: Did you care if anybody knew where you were?
4
5 WIT: I don't believe so, sir.
6
7 LT JOHNSON: The umm, after you executed the blow we agree that
8 it is a lot of noise in the water and your--I don't want to use--
9 -I'm trying to get the right term--I want to use the term blind,
10 but you really are kind of blind sonar wise while you are
11 blowing the tanks?
12
13 WIT: Yes sir.
14
15 LT JOHNSON: Because you're emitting more than you are receiving
16 so that is going to blind you?
17
18 WIT: Yes sir.
19
20 LT JOHNSON: After the blow is secured, what is--what is your
21 capability passively in sonar? Do you return back to where you
22 were prior to the blow? I mean can you hear?
23
24 WIT: Like I said, once the air kind of settles a little bit--
25 you are still getting the rush of the boat moving up--upward,
26 but your passive starts to come back.
27
28 LT JOHNSON: Right.
29
30 WIT: I don't know how to explain it. Just as it settles you
31 are going to see your display a little better.
32
33 LT JOHNSON: And does that continue to clear itself out as you
34 come up or does it degrade as you come up or does it actually
35 get better as you come up?
36
37 WIT: Well it is going to get better I guess until the point
38 where we get ready to come through the water itself.
39
40 LT JOHNSON: Do you report contacts to the conn during your
41 ascent if you have--your operators obviously listening to the
42 hydrophone array during the ascent. Are you actively reporting
43 contacts to the conn during this ascent?
44
45 WIT: On emergency blow?
46
47 LT JOHNSON: Yeah.

1
2 WIT: Not unless there is something that is obviously seriously
3 wrong. You're probably not going to see anything almost to the
4 point you are up there.
5
6 LT JOHNSON: Okay, so you're--you're not really going to hear
7 anything all the way up there is what you are saying?
8
9 WIT: Near the top you are going to start seeing data again.
10
11 LT JOHNSON: Right.
12
13 WIT: And it is going to--there is no time--I don't know the
14 time span, but there is no set time that says okay, if they--15
15 seconds after the blow or at this depth that your screen comes
16 back. Cause it just--it will kind of get into where you can
17 start seeing something.
18
19 LT JOHNSON: When you talk about the screen I mean, that is
20 different from your audible, right?
21
22 WIT: What you can see if what you are hearing.
23
24 LT JOHNSON: Okay, so even your audible you can't really
25 differentiate between ship noise----
26
27 WIT: You are hearing kind of a shhhhh noise until you get past
28 it.
29
30 LT JOHNSON: I'm just curious cause I don't know. I'm not
31 asking you questions I already know the answers to. I don't
32 know when you--when after you blow the tanks and you secured the
33 blow if in your ascent, your transition, you've got a 20 degree
34 up angle I believe is what our notes say on the submarine, so
35 obviously your sonar, your pointed up, your hydrophone array
36 above the air--if you can hear vessels up there at all or if you
37 can't hear because of only ships noise or what. I have no idea
38 what you're feeling then.
39
40 WIT: Not really. I mean it starts to come back in, you'll be
41 able to gain things back, but--I don't even know how to--at some
42 point in that ascent, near the top, its where you'll start
43 really getting sonar kind of back. You come up through, it kind
44 of washes out until you get back to the water.
45

1 LT JOHNSON: Did you ever get your sonar back before you--before
2 the actual collision? Did you ever feel like you had your sonar
3 picture back intact prior to breaking the surface?
4
5 WIT: I think just prior to where I thought--I don't know the
6 depth we were at--it was just prior to where I thought I heard
7 the LMC saying pretty soon now, or now you are going to see--or
8 feel--the boat lift through the water. I think that is about
9 when I had a normal looking display.
10
11 LT JOHNSON: Is making the LMC--am I going way too far where we
12 want to be?
13
14 MR. ROTH-ROFFY: We are getting away from the logs--I think----
15
16 LT JOHNSON: I'm sorry--I've got a train of thought going here--
17
18 --
19 MR. ROTH-ROFFY: I would like to get through the----
20
21 MR. ROTH-ROFFY: You could, LT Johnson just make a note to
22 yourself so we can return to this subject. It is very good to
23 pursue this and we would like to do this.
24
25 LT JOHNSON: Can I clarify one thing and then we go on and this
26 is a log issue that we talked earlier. You say there is a CO's
27 standing order requiring a briefing prior to going to periscope
28 depth and that this briefing did not take place and you don't
29 know why it did not take place prior to this evolution?
30
31 WIT: That is correct. I'm not sure----
32
33 LT JOHNSON: That is what I wrote down. I want to make sure I'm
34 writing down the exact--accurate. Tom, I'm sorry.
35
36 MR. ROTH-ROFFY: No, no, no. That is alright.
37
38 LT JOHNSON: I think I screwed us all up.
39
40 LCDR SANTOMAURO: Can we just stop the clock. It is 2336 zulu,
41 the Officer of the Deck is--we are at 2336 zulu, we've completed
42 the baffle clear and the Officer of the Deck is getting ready to
43 make his depth six zero feet and we are on our way to periscope
44 depth and I'll turn it back over to the sonar supervisor.
45
46 MR. WOODY: The last time I have logged is time 32.
47

1 LCDR SANTOMAURO: When was your next log entry there Petty
2 Officer?
3
4 WIT: I have 32 and then 2341.
5
6 LCDR SANTOMAURO: Right, so now on to 32, the Officer of the
7 Deck is now going up.
8
9 LT JOHNSON: The deck log shows at 1336 they received an order
10 to make the depth 60 feet and they raised the number two
11 periscope. Now I'm assuming the depth at that time was 150
12 feet, is that correct.
13
14 LCDR SANTOMAURO: Right 150 feet, they are making turns for six
15 knots and were on a course of one-two-zero. We are on our way
16 to periscope depth at this point. And I'll let you pick it up
17 from here. I guess we go up to periscope depth. It appears
18 to me since you logs don't pick up until 42 that we are at
19 periscope depth. We do several--we do visuals and ESM searches
20 and then at 1340 the emergency deep is initiated by the
21 Commanding Officer and that's left five degrees rudder,
22 increases it to 15, coming around to course three-four-zero on
23 the emergency deep. Then the next point we are at 1342, all
24 ahead two-thirds and that is where your logs pick up.
25
26 WIT: Yes sir. 2341, we faded both contacts----
27
28 MR. ROTH-ROFFY: What time was that?
29
30 WIT: Ahh, 2341----
31
32 LT JOHNSON: While you were at periscope depth, did you get
33 another round on those contacts at 60 feet? Nothing to show
34 what you did at periscope depth?
35
36 WIT: No sir. Just sending the data out to fire control.
37
38 LT JOHNSON: At 2341 you faded both contacts?
39
40 WIT: Yes sir. I've only got two faded, ahh, I'm not sure where
41 13--we had him at a later time still in ATF, we don't have him
42 faded. But the operator when we get to blow will come out of
43 ATF.
44
45 LT JOHNSON: You say you faded two at 41?
46
47 WIT: Okay sierra 12 faded----

1
2 LT JOHNSON: Okay, bearing?
3
4 WIT: Three-one-three.
5
6 LT JOHNSON: Okay.
7
8 WIT: Same time sierra one four faded at three-three-nine----
9
10 LT JOHNSON: Wow. Were these in the baffles or they faded? Did
11 they go in the baffles or did they fade.
12
13 WIT: I believe based on the noise we faded them, but I thought
14 we had a----
15
16 CAPT KYLE: At time--what time are we talking here now one more
17 time?
18
19 LT JOHNSON: 41.
20
21 CAPT KYLE: 41. You think that's the time the blow happened by
22 your clock? Cause 42 is when it happened on----
23
24 WIT: Yeah, I think so, sir. I would have to ask the log----
25
26 LCDR SANTOMAURO: We were now on course three-four-zero so they
27 are not in the baffles so they must have fade by----
28
29 LT JOHNSON: Yeah Captain you weren't here but we had some
30 discrepancies in the log where some contacts--I think we agree
31 actually went into baffles, but the log indications are not
32 accurate.
33
34 CAPT KYLE: I understand. I just wanted to make sure that is
35 where I'm at. From the geographic situation, they are not in
36 the baffles based on the heading so this has got to be----
37
38 LT JOHNSON: Wanted to get that on the record though.
39
40 CAPT KYLE: Before we much further while I got the mike here I
41 have one other question for you. While we're at periscope
42 depth, before we went deep, do you remember or did you pass out,
43 remember being asked for in your memory did the Officer of the
44 Deck ask for sonar contacts for the visual verification?
45
46 WIT: I did not hear that sir--don't remember----
47

1 CAPT KYLE: Didn't ask you that, don't remember hearing it on
2 the open mike was open.
3
4 WIT: I don't remember hearing that. Yes, it was sir.
5
6 CAPT KYLE: Okay. Thanks.
7
8 MR. ROTH-ROFFY: Just a follow up on that. Would the Officer of
9 the Deck normally request that sort of information; bearing
10 information to the contact so that he could verify them
11 visually?
12
13 WIT: I don't think he usually comes to sonar. I think he asks
14 the fire controlman so he can match bearings. He doesn't
15 usually ask sonar.
16
17 MR. ROTH-ROFFY: Okay.
18
19 LT JOHNSON: I'm sorry. He did not normally ask sonar for the
20 round?
21
22 WIT: Not for the round while he is doing scope bearings, he'll
23 go to fire----
24
25 LT JOHNSON: When does he normally get that information though
26 from you? During the briefing prior to coming to periscope
27 depth?
28
29 WIT: Yeah--we'll he have the CEP plot in front of him with fire
30 control and we'll discuss contacts, where they are, what fire
31 control has on a range, if I see any trends that could indicate
32 something.
33
34 LT JOHNSON: Right. I wanted to make sure I copied this right,
35 during this briefing he's got you, he's got the sonar sup, he's
36 got the fire control gentleman there, he's got the ESM watch
37 stander there and this is a mass coordination we are getting
38 ready to periscope depth, sonar sup what do I got, the ESM guy
39 is okay I know what to look for and where to look for it, fire
40 control what are you running and we are all on the same sheet of
41 music?
42
43 WIT: Yes, sir and it is done in the control room so the dive
44 and the chief of the watch can also----
45

1 LT JOHNSON: So he doesn't normally have to request this
2 information from you because it is normally provided in this
3 required briefing?
4
5 WIT: At least contacts from sonar.
6
7 LT JOHNSON: In this case we did not have the briefing and he
8 didn't request it specifically either. Okay just wanted to make
9 sure I got myself right.
10
11 MR. ROTH-ROFFY: Just as a further point of clarification on the
12 brief. What is the normal duration of that brief that is held
13 in the control room?
14
15 WIT: Not extensively long. Maybe two minutes, it's not--it's
16 just kind of letting everyone know what is going on--get a
17 handle of everything that's going on so we know what we are
18 going to do in the six or seven minutes until we get up.
19
20 MR. ROTH-ROFFY: And generally who conducts that brief?
21
22 WIT: The Officer of the Deck will conduct the brief.
23
24 MR. ROTH-ROFFY: And when he conducts that brief, does he ask
25 each watch station questions or do they have a normal thing that
26 they just in turn report on with the information? He just sits
27 back and takes it in?
28
29 WIT: I have had asked questions towards me on certain things,
30 what do you feel about this, what do you feel about that, maybe
31 a suggested course to come up to--kind of I guess the officer of
32 the deck at that time may have a question looking at what he
33 has--I don't know----
34
35 MR. ROTH-ROFFY: But in general do you or do you not have the--
36 kind of a set of information that you know you are going to
37 convey to the Officer of the Deck and you kind of just spiel
38 that out and he takes it in. If there's any questions then he
39 asks that.
40
41 WIT: I remind him of the contacts I have and where I feel they
42 are at. For me he has other things to look at and I also tell
43 him how I get that information if it was the DEs that were
44 really low down in so he's close by that type of range. If I
45 got information that I can help--if I see something maybe that I
46 know is closing then I can tell him hey this guy is closing. If
47 I have something to give him I can give him that.

1
2 MR. ROTH-ROFFY: Okay, thank you.
3
4 LT KUSANO: So let's say you would have had the briefing, what
5 would have said to the OOD?
6
7 WIT: I have two contacts towards the north. Based on all the
8 stuff that we were doing I'd say my tentative range is about
9 still in the 10,000 yard range. I didn't have anything really
10 to indicate anything different. I wouldn't have too much to say
11 at that brief, just those guys and sierra 10 to me was the
12 closer guy prior to that.
13
14 LT JOHNSON: Were you--did you overhear of any word of any
15 scheduling issues or you know, we have got to be at point X by a
16 certain time so we need to get this thing going guys. Kind of
17 a--not those specific terms, but were you aware of any okay
18 listen we've got to be at Papa Hotel at this certain time, we
19 need to get moving here.
20
21 WIT: I was never told we need to be--I know where we have to be
22 at certain times, but nobody came in and said hey we got to be
23 here by this time. Nobody did that.
24
25 LT JOHNSON: You had an open mike with control. Do you hear any
26 conversation over that open mike that might have occurred
27 between the Captain and the Officer of the Deck concerning
28 locations----
29
30 WIT: No sir. I'm trying to key really on making course changes
31 or depth changes--obviously the word sonar; something, but I'm
32 not listening to everything that is said. There is, I think two
33 mikes in control that relay data and I don't recall any
34 conversation like that.
35
36 LT JOHNSON: Okay. Thank you.
37
38 LCDR SANTOMAURO: You are now--we've done the emergency surface
39 procedure we are on our way up, did you hear anything at all
40 prior to that time that would indicate any kind of contact.
41
42 WIT: No sir. Nothing--umm, some of the things that I'm looking
43 for--at anytime for close abort contacts. I'm listening for my
44 double R9 to go off, for fish finders or bottom sounders. I'm
45 listening--or I'm watching the screen for anything that would be
46 say on the left drawing right or right drawing left that would
47 indicate a definite close in scenario. I'm looking for things

1 to become very strong in all my depression elevations on the
2 sphere that would indicate something is rapidly approaching----

3
4 LCDR SANTOMAURO: ----What we are looking to do now just take us
5 through the rest of this whole deal. Describe the collision
6 itself and everything that went on during that period and then
7 go through the contact scenarios afterwards if you have--just
8 continue on for----

9
10 WIT: Okay, ahh, once the collision hit--right before the
11 collision I kind of felt the boat tip forward a little bit. It
12 was kind of weird. I didn't know if they had pushed down on the
13 sticks, it didn't make any sense. I don't even know how quickly
14 thereafter you felt the thud. I can only guess it kind of
15 angled the boat down before the impact with the water. I don't
16 know. Heard a thud, didn't really feel anything different in
17 sonar. We still came up and then I heard a second thud. At
18 that time it was very obvious we hit something that was up
19 there. I looked down at the displays to see if there was
20 anything that was different than two to three minutes before the
21 bang. I didn't see any indication of anything beyond what was
22 already there. It was still the same. At that point when we
23 heard the second thud I didn't know what it was up there,
24 obviously the boat had hit something. First impression was it
25 had to be still in the water based on I have anything that is
26 moving out there already being tracked somehow. I didn't have
27 any indications of something being really close to me at that
28 point. That is why at that point I assumed he was dead in the
29 water. There quickly after that I made sure everybody was
30 getting placed back into ATF or automatic tracker following the
31 ones that we did have. As soon as I saw three contacts back in
32 ATF that is when another sonar supervisor came up--I'm sure you
33 guys are going to get to interview him a little bit later. At
34 that point we also had some other problems, our first lieutenant
35 was not on board who normally does all the safety gear for the
36 boat.

37
38 LCDR SANTOMAURO: I got a question. After you had those contact
39 came back on your screen can you correlate them to any of the
40 contacts that you had previously 10, 12, or 13.

41
42 WIT: I would have to--I can only just kind of looked, we were
43 turning but I didn't---- I would have to ask the next sup the
44 exact bearings.

45
46 LT JOHNSON: How long are you blind on the surface because I
47 know when you do this evolution the hydrophones are out of the

1 water when you come up, right? There's such a water noise, the
2 bow and everything is up, then you bury back down and settle.
3 How long are you blind?
4
5 WIT: It is not very long--not very long, sir. Just the weight
6 of it as guess, 20 maybe--no probably a little longer than that--
7 -30 seconds or so, somewhere in there. That is just a ballpark
8 cause you got to wait for the--it is sea state, you got to wait
9 for the bow to kind of settle.
10
11 LT JOHNSON: When you say you--you heard the thump and
12 everything you are talking you actually heard it just in the
13 submarine, not on the sonar----
14
15 WIT: ----the ship--not the over the headphones----
16
17 LT JOHNSON: Oh, okay, not over the hydrophones.
18
19 WIT: Just in the--felt it kind of I guess it would be off to my
20 right at the time--kind of control aspect. And the first one I
21 was like okay what do they do out there cause I didn't really
22 feel anything. Second one you knew something was hit.
23
24 LCDR SANTOMAURO: Go ahead with----
25
26 WIT: He came up there just about at the time we hit--just
27 after. I turned over to him, here's your three contacts, they
28 are back in ATF. The first lieutenant was kept in port, one of
29 the major members of the deck division was kept in port. I had
30 previously been in first lieutenant on the ship. I knew where
31 the safety ladder for the sail was. I knew where the, what we
32 call a bathtub, for the forward escape trunk was. I knew where
33 the gear was to get things moving. One thing I waited for
34 before leaving was to hear the ship is holding. Meaning it is
35 holding its depth. It's not going to sink. Once I heard that
36 then I turned over to him and I said, here. And it wasn't an
37 extensive turnover. It was here's your three contacts, I've got
38 to go get the stuff ready. In route seeing--there's--I don't
39 remember if I glanced to perivision control if it was the one in
40 middle level. I glanced and saw a perivise of part of a boat
41 sticking out of the water. Definitely confirmed we had hit a
42 boat. Then I went for the sail ladder first. I kind of felt
43 how the boat was moving, I knew we would take water on the back
44 a little bit so the first thing was to go get the ladder for the
45 sail. Went and got that, put it up in the sail with a--a life
46 ring as well as a lanyard attached to that with a light that
47 floats that kind of blinks. By the time I came back down from

1 the bridge area, that's when I saw the diver--I think one or two
2 divers ready to go and I think there was three by the time I got
3 out of that area completely. Went down and around, went through
4 the mess decks to find out if we had people dressed out in the
5 safety harness, k-pocks to ensure they were moving. I can't
6 remember--I know there was at least two, maybe three people,
7 dressed out already. The one thing that hadn't been
8 accomplished yet, kind of another reason I figured it hadn't
9 been, is the bathtub for the forward escape trunk wasn't rigged
10 and nobody was going to get it. So I grabbed three people,
11 headed back, grabbed that--the bathtub. We came up and started
12 rigging that. Once that was close to being rigged I checked--at
13 that point I think we had three people ready to go. I just
14 said, stand-by, I'll go see what is going on. And went back up
15 towards control. The divers were still standing there so I felt
16 nobody was going over the side at that point. And I went back
17 into sonar to see what was going on. Time, I'm not sure after
18 that.

19
20 LT JOHNSON: When you--did you ever have any of the visitors or
21 guests in sonar during the--just prior to the EMBT blow or
22 during the actual blow?

23
24 WIT: No, sir. Most of that was done prior to the lunch break.
25 I was in there giving the tours for everybody and there wasn't
26 that many so we managed to get them pretty much through, let
27 them listen to some fish. We did have fish out in the water, or
28 biologics----

29
30 LT JOHNSON: ----Were all the watchstanders on the equipment
31 qualified watchstanders in sonar?

32
33 WIT: No, sir. One of the guys we have on the workload share
34 stack was an under instruction with a first class that was
35 behind him.

36
37 LT JOHNSON: Is the first class listening to the same thing that
38 this under instruction or watch stander is listening to? In
39 other words does he have like a duplicate controls or headphones
40 or----

41
42 WIT: ----No sir. What is normally done is he is listening and
43 the over instruction is watching to see how he is doing the
44 evolutions. Broadband can listen to everything that the
45 workload share stack operator is listening to and as well as
46 like going up to periscope depth or during a baffle clear, I

1 have a set of headphones that I can monitor either stack at that
2 time.
3
4 LT JOHNSON: Were you monitoring the under instruction watch
5 stander during this time?
6
7 WIT: I was flipping back and forth and I'm not sure which one I
8 had when I went to PD, but I was going back and forth.
9
10 LT JOHNSON: Is it--so you are not sure whether you were
11 monitoring the non-qualified individual at periscope depth or
12 not?
13
14 WIT: No sir. I had an over instruction watching him. I was
15 listening to either one, but I'm not sure which one I had last
16 selected to. They are both concentrating on the same place.
17 When we go up to periscope depth you are looking at the top two
18 DEs on the sphere and they are both concentrating right off the
19 bow.
20
21 LT JOHNSON: Do you want to--I'll lead it off into something--
22 else if you had other areas you were going Tom--
23
24 MR. ROTH-ROFFY: Actually yeah. I think maybe this might be a
25 good place to break for lunch. The time is about 1132 and we
26 will resume at 1230.
27
28 MR. ROTH-ROFFY: Okay. We are back now. We're resuming an
29 interview with Petty Officer McGiboney. The time is now about
30 18 minutes after 2:00. Does anybody recall where we left off?
31
32 LT HEDRICK: LT Johnson, I think you were about ready to pursue
33 a new line of questioning or do you want to recap where we left
34 off?
35
36 LT JOHNSON: Where I am is we were at 2341, sierra 12 had faded
37 at three-one-three and sierra 14 had faded at three-three-nine
38 and we were--actually had--were doing the EMBT blow at this
39 point, right. I believe that we had already discussed and I
40 want to make sure I am clear on this, the baffle clears that
41 occurred before then--my notes indicate that you indicated that
42 you were not specifically advised that you were conducting the
43 baffle clear. You just made that assumption because of the
44 course changes.
45
46 WIT: Yes sir. I can't remember if by the LMC they were talking
47 about the next steps the ship would take--or the Captain was

1 addressing people via 1MC more so guessed this is what we would
2 be doing, this would be doing. It was never really addressed to
3 say sonar, conduct the baffle clear to the right. Nothing was
4 really specifically addressed, I kind of just understood that is
5 what we were doing.

6
7 LT JOHNSON: Do you change any of your procedures--your--your
8 passive listening or searching, if you will, procedures for a
9 baffle clear as opposed to just your normal watch standing
10 routine?

11
12 WIT: The screens are all the same. When you are clearing your
13 baffles, you'll search in the area of where the baffles used to
14 be to find out----

15
16 LT JOHNSON: So you would want to focus your search in that
17 specific area?

18
19 WIT: Right. You focus your search in that baffled area to see
20 if there are any new contacts in that area.

21
22 LT JOHNSON: How does the GREENEVILLE clear baffles?

23
24 WIT: Sometimes you do a 120 to the right or left, sometimes it
25 is a--you may go 60 degrees this way, wait for a little bit to
26 see that side of the baffles, then go back this way 120 to catch
27 the other side, various ways.

28
29 LT JOHNSON: How was the GREENEVILLE doing their baffle clears
30 on the 9th?

31
32 WIT: That was a 120, I believe, to the right.

33
34 LT JOHNSON: Now, I think where we were we had conducted the
35 EMBT blow, we are headed to the surface and you--the Captain,
36 while you are in the process of surfacing, begins to speak on
37 the 1MC.

38
39 WIT: Yes sir. He was explaining the change of water depth in
40 front of the boat and the back of the boat. I couldn't tell you
41 exact depths, which he was doing that. He kind of gave a
42 scenario this is where we're at, this is what we'll feel and
43 this is what we do and this is the depth differences or because
44 of this angle, the height difference. It wasn't lengthy,
45 lengthy, but there was 1MC's that were being said during the
46 blow.

47

1 LT JOHNSON: Now, during your surfacing evolution, are you still
2 actively listening for contacts in sonar?
3
4 WIT: During the blow or----
5
6 LT JOHNSON: Well yeah, during this evolution, the EMBT blow.
7
8 WIT: As best you can. You are pretty much blind with the
9 exception like say when that air starts to calm down would I
10 guess be the best way to put it from being blown into the tank.
11 It starts to calm down and then you can start to see your
12 display again, but it is not much data.
13
14 LT JOHNSON: Does the Captain--does the captain's voice over the
15 LMC get the crews attention?
16
17 WIT: I believe so, sir.
18
19 LT JOHNSON: It is a recognizable voice to the entire crew?
20
21 WIT: Yes sir. You know it is the Captain.
22
23 LT JOHNSON: You know it is the Captain. Does that distract
24 watchstanders from what they're doing when they hear the Captain
25 come over the LMC to try to hear what word he is passing?
26
27 WIT: I guess it could----
28
29 LT JOHNSON: Does it you? Let me just talk about you
30 specifically. You are the sonar sup, if you hear the Captain
31 come over the LMC are you going to be oh, let me hear what the
32 Captain's got to say or what?
33
34 WIT: For this I'll hear him, but I'm not going to say okay here
35 I'm going to focus on everything he says. Cause I kind of know
36 what he's about to talk about. I don't know exact words he is
37 going to use. I'm kind of listening to the open mike to see
38 what is going on in control as well.
39
40 LT JOHNSON: You say you kind of already know what he is going
41 to talk about. Is this common for him to get on the LMC during
42 emergency surface and start to talk while the ship is in the
43 process?
44
45 WIT: He uses the LMC. I'm not sure every time we've gone to
46 emergency blow is he--if he uses like--I know he's done it

1 before, but I don't know how many times. I don't know
2 percentages or----
3
4 LT JOHNSON: Could that distract the watchstanders from their
5 normal duties of listening on the sonar?
6
7 WIT: It possible could--I don't know for them if it did or not.
8
9 LT JOHNSON: Were you ahh--during the ascent, were you
10 maintaining your contacts with sierra 13 and sierra 14? I think
11 we only have two, if my notes are correct and I may have gotten
12 lost in the shuffle here, but I show we only have 13 and 14.
13 Actually, I see where 14 and 12 have faded so right now,
14 according to my notes, you only hold 13. Is that correct?
15
16 WIT: I would have to check with the log taker. I thought we
17 faded all three contacts on the blow.
18
19 LT JOHNSON: You did?
20
21 WIT: I'd have to check. I thought we had faded everybody
22 because it does pretty much blank out the screen.
23
24 LT JOHNSON: I show at 2341 we faded sierra 12 at three-one-
25 three and we faded sierra 14 at three-three-nine.
26
27 WIT: Yes sir.
28
29 LT JOHNSON: I don't have any notes here reflecting sierra 13.
30 Do you show him fading?
31
32 WIT: No, I have a bearing of roughly zero-zero-eight and that
33 was 2332, as a regain----
34
35 LT JOHNSON: Do you still hold him during the surfacing?
36
37 WIT: I do not remember holding him during--during the blow.
38
39 LT JOHNSON: Does he faded on your log?
40
41 WIT: He does not have a faded on the logs. The next bearing
42 they have for him was three-zero-nine, which----
43
44 LT JOHNSON: What time was that?
45
46 WIT: 2345, that would have been after we pretty much had gone
47 up to the surface.

1
2 LT JOHNSON: Where's our log-our deck logs. 2345 you hold
3 sierra 13 at what now?
4
5 WIT: At three-zero-nine, which I don't know if that was a
6 bearing--good bearing or not. That is after the--23--2345.
7
8 LT JOHNSON: What was the time of the collision?
9
10 WIT: Just before that.
11
12 MR. ROTH-ROFFY: 1345.
13
14 LT JOHNSON: So you got him--you got a bearing on him about the
15 time of the----
16
17 WIT: Yeah, the logs do. I believe I had everybody out of ATF
18 at that time. I would have to check with the logs to see if
19 that was the time he logged it, if it was before or after.
20
21 LT JOHNSON: How long in your logbook there---- What's the--
22 what's the next time you have a range of bearing to sierra 13?
23
24 WIT: Well after that they have another bearing of sierra 13 at
25 2348 back at three-four--I believe it is three-four-zero. So I
26 don't know how good of a bearing either one of those are. That
27 was kind of right after, right as I was turning.
28
29 MR. WOODY: What is the signal to noise.
30
31 WIT: The one at 45 was a plus 9.
32
33 LT JOHNSON: So you've got 2348, you've got sierra 13 at three-
34 four-zero?
35
36 WIT: 2345 sierra 13 is three-zero-nine.
37
38 LT JOHNSON: Okay and at 2348 you've got him at three-four-zero
39 is that right?
40
41 WIT: Correct and it says into the baffles. And I don't know
42 how good that data would be.
43
44 LT JOHNSON: And what were you----
45
46 LCDR SANTOMAURO: What heading.
47

1 LT JOHNSON: The ships heading I don't know.
2
3 LT HEDRICK: What time?
4
5 MR. ROTH-ROFFY: Deck log.
6
7 LT HEDRICK: What time?
8
9 LT JOHNSON: 2348.
10
11 MR. ROTH-ROFFY: It's after, it's not on this.
12
13 LT HEDRICK: Oh, after.
14
15 MR. ROTH-ROFFY: Right it's after.
16
17 WIT: If that was after, they are probably doing a turn----
18
19 CAPT KYLE: It should be in the deck log right there, right?
20
21 MR. ROTH-ROFFY: Again, if we could just having more than--not
22 having a general conversation otherwise it is hard to recognize
23 the transcript.
24
25 CDR CACCIVIO: I have no course changes from 1340--to the deck
26 log I have no course changes indicated from 1345 to--umm, okay.
27 I take that back, you have conning of the ship vice ordered
28 courses at 1347 you have right full rudder, at 1348 you have
29 right full rudder, at 1350 you have right hard rudder, 1351 you
30 have right hard rudder.
31
32 LT JOHNSON: I would assume that is when they are maneuvering to
33 take station of the--for the survivors----
34
35 WIT: I would believe so.
36
37 LT JOHNSON: Petty Officer McGiboney, in your opinion--I've been
38 studying your bearings that you've given me and the different
39 data--in your opinion, is it possible that the vessel that you
40 actually collided with was sierra 13?
41
42 WIT: I would say possibly yes, I'm not sure. Like I said, I've
43 always been told if you have some bearing rate on the left going
44 left or right going right that is something you can't hit. I
45 had bearing rate the whole time. I don't know how if this was
46 the guy we hit it. I really don't know.
47

1 LT JOHNSON: But do you think it is possible----

2

3 WIT: It's possible----

4

5 LT JOHNSON: ----that sierra 13 was in fact the Ehime Maru that
6 you hit?

7

8 WIT: It's possible.

9

10 LT JOHNSON: And I've come to that--I came--I got in my mind
11 about two hours ago listening to you read off your bearings and
12 your times and the bearing rate--you had constant bearing for
13 awhi--that is where I was and so--you know, you are the
14 professional, you do this for a living and given the data that
15 you have in front of you, the data I have in front of you points
16 in that direction, I just wanted your professional opinion on
17 that.

18

19 WIT: It is possible with what we had. The thing is I don't
20 understand how we could have hit it with bearing rate. I don't
21 know.

22

23 LT JOHNSON: Thanks. Right now that is all I have.

24

25 LT KUSANO: 2348 was the last--was that the last mark you had
26 for sierra 13?

27

28 WIT: No, they have other marks and bearings. Once again, it
29 kind of stayed towards the north with the exception of that one
30 bearing of three-zero-nine. The next bearing was 2358 bearing
31 three-four-eight.

32

33 LT KUSANO: And you said at 2348 they were losing him in
34 baffles.

35

36 WIT: It went into the baffles and I believe that was based on
37 changing course to come back around.

38

39 LT JOHNSON: I have a question on top of you, Ken. Is it at all
40 possible that--that what you are calling sierra 13 after the
41 time of collision could have in fact been a regain because of
42 the maneuver of sierra 14 or 12? Because what were your actions
43 immediately after the collision?

44

45 WIT: Immediately after we felt the bump, I looked up to see if
46 we still had three traces. We did still have three traces,

1 that's when the other supervisor came in. They were regaining
2 the traces as I was doing my turnover.
3
4 LT JOHNSON: Were you able to give him any kind of an in-depth
5 good turn over or were you----
6
7 WIT: No sir. No sir. I told him we had three traces right
8 here or the tracers we had, these are the contacts, we just hit
9 something I am going to do the first lieutenant stuff. It was
10 not a very lengthy turnover.
11
12 LT JOHNSON: Is it possible that he could of not knowing the
13 situation could have seen sierra 14 which is on a--or sierra 12,
14 which the last time they faded were on those approximate
15 bearings of three-one-three and three-three-nine to assume--
16
17 WIT: Possible.
18
19 LT JOHNSON: Are there any other entries in there on 12 and 14?
20
21 WIT: There's--I see 12. You have another entry--this--this is
22 possible, sierra 12 at 2352. This looks like a regain--I'm
23 going to try to read--three-zero-nine and that was the last
24 bearing of sierra one three.
25
26 LT JOHNSON: Exactly, sierra 12 is regain on the same bearing of
27 the last bearing of sierra 13.
28
29 WIT: Yes, sir. It is very possible. The operator himself
30 would have been doing the numbers.
31
32 LT JOHNSON: Okay--do you understand?
33
34 MR. ROTH-ROFFY: No. Could you--
35
36 LT JOHNSON: Okay, what I asked him was it possible that what
37 they continued to track as sierra 13 could have possibly been
38 sierra 12 or 14. After the collision what they are noting is a
39 regain of sierra 12 is on the very same bearing that they had as
40 the last for sierra 13, so as they continued to mark--or what
41 they were calling 13 or 12 they got on the same bearing as 13.
42
43 MR. ROTH-ROFFY: What you are saying is that what was regained
44 as 12 may have actually been 13 still?
45
46 LT JOHNSON: Just the opposite. What was regained as 13, after
47 the collision, was actually 12 because it was picked up on the

1 same bearing as the last known bearing of 13 prior to the
2 collision.
3
4 MR. ROTH-ROFFY: Okay.
5
6 CDR CACCIVIO: Let me make sure I under--so you are saying you
7 think, after the collision, sierra 12 was actually regained as
8 sierra 13 and I have him over to the west, is that correct?
9
10 WIT: That is possible. I have the same bearing as sierra 12---
11 -
12
13 LT JOHNSON: Yeah, yeah with the notes I have yeah. Cause we
14 faded him at 2341, sierra 12 at three-one-three and then four
15 minutes later he is at three-zero-nine.
16
17 LT HEDRICK: What time did you fade him?
18
19 WIT: They were all faded--2341.
20
21 LT JOHNSON: So that is a tremendous amount of change for the
22 ranges that----
23
24 WIT: ----Needs to be a lot more accurate, I just don't--we
25 don't
26
27 LT JOHNSON: Yeah, my numbers in my notes here--I'm asking you
28 is it possible that the collision occurred with what was sierra
29 13 and then your--the continuation of tracking of a contact
30 noted as 13 was in fact a regain of another contact since they
31 were all in that general area.
32
33 WIT: It's possible. Umm--look at this, I can see where they
34 could have switched 13 and sierra 12 or made sierra 12 13 at
35 that bearing.
36
37 LT JOHNSON: And I know that there is no certainty there, I'm
38 just asking for an opinion based on you were there, I wasn't. I
39 know it had to be very confusing, very hectic----
40
41 WIT: Right after that, yes sir.
42
43 LT JOHNSON: And information can get lost and confused. I don't
44 have anything further at this point Tom.
45
46 LT KUSANO: I just want to kind of get a feel of control room.
47 Would you say--is this your first sub?

1
2 WIT: No sir.
3
4 LT KUSANO: Have you served with other Captains before?
5
6 WIT: Actually on this boat, this is the second Captain I have
7 served under and on other boats I think I have been under three
8 different Captains total on the other boats.
9
10 LT KUSANO: Would you consider this Captain a screamer or
11 mellow?
12
13 WIT: He is a talker. He's not a screamer.
14
15 LT KUSANO: What would you say the mood is if--if anybody--if
16 anybody would have aborted some kind of exercise, some kind of
17 training and they were wrong, what do you think--what kind of
18 mood do you think the OOD or the Captain----
19
20 WIT: ----Well, that is what the Captain preaches is efficiency,
21 safety, and backup. You got backup, you notice something is
22 wrong, you just stop something. I have never seen a situation
23 where somebody has tried to back something up and him come out
24 and just jump all over them. I have never seen a situation like
25 that.
26
27 LT KUSANO: So if during the whole time you never felt that--you
28 were hiding--or knew that you wanted to say something that was
29 important?
30
31 WIT: No, sir.
32
33 MR. ROTH-ROFFY: Who would like to question next.
34
35 CDR CACCIVIO: I have a couple of questions. Maybe you covered
36 these, just tell me if you did. Do you have a feel for what
37 broadband LE was?
38
39 WIT: No ideal sir.
40
41 CDR CACCIVIO: Do you have a feel for what broadband LE is
42 routinely in that area?
43
44 WIT: Usually I would say it is in the low 30's scenario.
45

1 CDR CACCIVIO: Based on audio could you tell whether you thought
2 today was a nosier day than normal, a quieter day than normal or
3 just a normal day?
4
5 WIT: It kind of seemed like a normal day by sound.
6
7 CDR CACCIVIO: Did we--how often do you determine LE?
8
9 WIT: Normally it is done every hour. With the tours going on
10 we not taking LE's so they can sit--earlier in the day---
11
12 LT JOHNSON: Could you define what you mean by LE.
13
14 CDR CACCIVIO: I'm sorry.
15
16 WIT: That is the background noise level in the water, the M-E
17 level and how much--how much ship is putting into this--the
18 overall level of sound in the water, a certain level. If your
19 environment changes, your sea state gets heavier, more fish come
20 into the area, something in that environment changes,
21 increases/decreases, that can move up your down your LE. If the
22 sound velocity varies by a certain amount that can raise or
23 lower your LE's and that determines how far or short you may be
24 able to pick something up.
25
26 CDR CACCIVIO: What does LE stand for?
27
28 WIT: It's the level of energy in the water, but it is your
29 background noise, that is what it is.
30
31 CDR CACCIVIO: The purpose of asking that question was basically
32 LE is the overall reflection of the ambient noise in the water
33 so therefore obviously if there's--if it's louder ambient noise
34 therefore it would be harder for the sonar operator to
35 distinguish a contact, harder for the system and the operator to
36 distinguish a contact. If it were very quiet then he would be
37 expect that the system and he would be expected to detect more--
38 a contact more easily so. Was there any--was there any
39 significant shipping noise during the watch?
40
41 WIT: Ahh, most of the traffic was obviously out of the northern
42 area. There was nothing that was really masking out anything
43 else. Everything else was discernable--you could pick things
44 up.
45

1 CDR CACCIVIO: Okay. How does your sonar line up change for
2 going to periscope depth specifically with the passive broadband
3 operator?
4

5 WIT: Both with passive broadband and the work load disp--share
6 operator, you are going to go into a two-time history display
7 instead of a three-time history display. You've got a short,
8 intermediate, and a long time history when you normally do a
9 search. When you go to periscope depth you are going to change
10 that to a short time and an intermediate time so you can
11 recognize the changes. You are more focused on maybe a
12 transient, its more repetition that you can recognize and it
13 gives you a little bit longer data.
14

15 CDR CACCIVIO: Would you say these changes improve your ability
16 to recognize a contact or a change in the contacts operation or
17 decreases your ability to do that. Is this an enhancement that
18 improves your ability to detect contacts?
19

20 WIT: Kind of both. It can help you out as in if you notice
21 some changes or if you notice there is a certain--a transient
22 coming from that contact you may be able to see the repetition
23 better and a longer history than a shorter history. You lose a
24 lot of your--you don't lose it, you just shift the screen on your
25 long term history and kind of gets rid of that long term history
26 picture right there in front of you. It more aids than hurts by
27 any means by going to that longer history--by going to a larger,
28 short term----
29

30 CDR CACCIVIO: By going to a longer short-term display, does
31 that increase your update rate to assist the operator, his
32 ability to see more data?
33

34 WIT: Oh no. The update rate stays the same, you just get more.
35

36 CDR CACCIVIO: Okay, you had an under instruction sonar supervi-
37 -sonar operator in sonar is that correct?
38

39 WIT: Correct.
40

41 CDR CACCIVIO: And what was his name?
42

43 WIT: That was SN Rhodes.
44

45 CDR CACCIVIO: SN Rhodes is he a sonar technician?
46

47 WIT: Yes he is.

1
2 CDR CACCIVIO: Can you describe for me his experience level?
3
4 WIT: Not very much. He got here during the shipyard
5 availability time that we had right before Christmas and he's
6 pretty much been in sonar operational through the last East PAC
7 at sound trial we did before we came back here.
8
9 CDR CACCIVIO: He was an UI watch here. He had qualified watch
10 there with him?
11
12 WIT: Over--up to the point where we had gone to periscope depth
13 and did our look around.
14
15 CDR CACCIVIO: What happened after that?
16
17 WIT: At that point the over instruction--because we were on the
18 way down, I asked him to have another sup come up and relieve me
19 for a head call before we stationed the maneuvering watch at
20 that point.
21
22 CDR CACCIVIO: So at that point you had a qualified broadband
23 operator on the one console and then you had a non-qualified
24 under instruction watch on the other console?
25
26 WIT: Yes I did.
27
28 CDR CACCIVIO: Is that a normal operating line up?
29
30 WIT: In sonar you are suppose to have qualified operators on
31 the stacks by NWP guidance. Most of the time we do have
32 somebody qualified there or an over instruction there.
33
34 CDR CACCIVIO: Did you ask the OOD's permission to secure to
35 over instruction watch?
36
37 WIT: No I did not.
38
39 CDR CACCIVIO: Why did you choose to secure the over instruction
40 watch vice having the messenger go find your relieving sonar
41 supervisor?
42
43 WIT: At PD after the high look around, I felt confident in what
44 we had available with no visual and no significant bearing rates
45 that nothing was inside an envelope that was unsafe--umm and I
46 knew we were proceeding straight down and then straight back up.
47

1 CDR CACCIVIO: Let me make sure I clarify something. Where was
2 the ship physically when you sent the qualified workload share
3 operator to find your relief?
4
5 WIT: I believe it was right before we headed back down or right
6 after we headed back down to 400 feet.
7
8 CDR CACCIVIO: So at periscope depth how many sonar contacts did
9 you hold?
10
11 WIT: I believe it was two--three, 12, 13, and 14.
12
13 CDR CACCIVIO: So who did you believe was managing the trackers
14 and the contacts at that time? Which one of your operators?
15
16 WIT: That would be broadband.
17
18 CDR CACCIVIO: So then who was responsible for safety of ship in
19 conducting new contacts?
20
21 WIT: He--broadband tracks the contacts as well as look for new
22 contacts. The guy annotating the logs would be the workload
23 share stack.
24
25 CDR CACCIVIO: What is the purpose of having a workload share
26 operator?
27
28 WIT: To aid if the contact density is too high on broadband and
29 he can't handle those trackers. If he has three or--if he has
30 numerous trackers to where he can't keep track of all the
31 trackers then workload share can be assigned trackers to track
32 with broadband.
33
34 CDR CACCIVIO: How many trackers are available to the broadband
35 operator?
36
37 WIT: Four available for the sphere.
38
39 CDR CACCIVIO: So at what point would you consider him to have
40 to many trackers assigned?
41
42 WIT: Any time he has more than probably four where they have to
43 time-share a tracker.
44
45 CDR CACCIVIO: Okay--let me make sure your stated that--you
46 really mean more than four contacts, not four trackers?
47

1 WIT: Yes, more than four contacts sorry.
2
3 CDR CACCIVIO: So to summarize what you are saying, correct me
4 if I'm wrong, you are saying that basically you--your broadband
5 operator can safely track four contacts. Above four contacts
6 then you would transfer contact management to the passive
7 broadband--passive broadband workload share operator?
8
9 WIT: He could help out with the tracking. I could give him one
10 of the trackers. I could give him okay, I want you to track
11 these two contacts with this one tracker. Time share, you track
12 them for this long, you track them for this long and you share
13 that tracker back and forth. We didn't have to where we were
14 overloaded. We didn't have that many contacts.
15
16 CDR CACCIVIO: Is that common practice to have the operators
17 swap back and forth on use of the tracker or is it more common
18 to take a contact and transfer it to the workload share operator
19 to manage entirely?
20
21 WIT: Well when you transfer--you got to give him--the stack set
22 up--how we've got it set up is the broadband display is--I've
23 got them assigned to all the trackers so if he needs a tracker,
24 he can use that tracker----
25
26 CDR CACCIVIO: All the trackers meaning comp 1, comp 2,
27 broadband 1, broadband 2?
28
29 WIT: That's correct sir. I'm going to give him all the
30 trackers so he can go at it. If I feel that he is overburdened
31 or maybe he is too junior to handle more than two or three
32 contacts even if qualified, I can shift--I can select, through
33 the BSY system, and take one of the trackers, either the
34 broadband or a comp and I can shift that over the workload share
35 stack to have him track or monitor a contact if necessary.
36
37 CDR CACCIVIO: So until you get the four contacts or more, then
38 workload share would have no trackers assigned?
39
40 WIT: Correct. I don't have any assigned. That is how I do it.
41 There is no set guidance on how you are to split the contacts.
42
43 CDR CACCIVIO: Which is your primary search tracker?
44
45 WIT: Tracker? Primary you would use comp A or comp 1 which is
46 the letter alpha.
47

1 CDR CACCIVIO. Okay, so prior to securing the over instruction
2 watch had the workload share been managing any contacts?
3
4 WIT: No he had not. He was a secondary search and logs.
5
6 CDR CACCIVIO: Secondary search? So what is the purpose of
7 secondary search?
8
9 WIT: He steers around and looks for contacts as broadbands
10 steering around looking for contacts.
11
12 CDR CACCIVIO: Is there a 1MC speaker in sonar?
13
14 WIT: Yes it is. It is in the most forward part of the shack up
15 in the corner.
16
17 CDR CACCIVIO: Is that 1MC overridden by your 27MC?
18
19 WIT: I do not believe so.
20
21 CDR CACCIVIO: So during a--if the CO was on the 1MC during your
22 ascent to periscope depth and you had to announce no close
23 contacts, would that override the 1MC speaker in control?
24 Excuse me, if you had to announce a close aboard contact would
25 that override the 1MC in control?
26
27 WIT: I do not know. I know the 27 since it is above fire
28 control, you would be able to hear me. I can cut everybody out
29 with my 27MC that is on a 27MC. So if I say something it is
30 coming to one of the speakers in the control room. I don't know
31 15's and 17's. I can't----
32
33 CDR CACCIVIO: You just don't know whether it overrides the 1MC?
34
35 WIT: I do not know if it overrides. I cannot remember.
36
37 CDR CACCIVIO: But you feel it overrides all the other 27MC's.
38
39 WIT: It will override every other 27 MC.
40
41 CDR CACCIVIO: You said that you felt that the contact had,
42 sierra 13, had bearing rate prior to going to periscope depth?
43
44 WIT: Yes sir.
45
46 CDR CACCIVIO: And what was the bearing rate?
47

1 WIT: Ahh, if I remember the display right I thought we had left
2 bearing rates on the contact to the north before that point.
3 And that was due, I think, because the driving around of the
4 ship.
5
6 CDR CACCIVIO: Okay so you had a left bearing rate. I realize
7 you probably don't have a number, but if I looked at the short
8 time averaging interval display would I see a relatively low
9 bearing rate steady or would I see a medium bearing rate or
10 would I see a high bearing rate cutting across the ITA display?
11
12 WIT: You would see probably anywhere--if I remember it was kind
13 of--I call it moderate to slow. It didn't have a high bearing
14 rate. What I'm looking for a high bearing rate would be
15 something that's--up here I guess would be a good example, on
16 sierra 10 how it's going off to one side or this way, that is
17 high bearing rate. When I would kind of----
18
19 CDR CACCIVIO: We are referring to short time averaging interval
20 display or the ITA display?
21
22 WIT: The short time.
23
24 CDR CACCIVIO: Okay.
25
26 WIT: More so down here where they have sierra 6 on the CEP
27 plot----
28
29 CDR CACCIVIO: For the benefit of the guys that may not
30 understand what I am driving at here, basically the three
31 waterfall displays we talked about are three intervals and
32 basically the first display will give you 7.6 seconds of data,
33 okay, and it will give you bearing left or right. So the
34 waterfall will come down 7.6 seconds. The ITA display,
35 depending on the way the line up is, will give you roughly, if I
36 remember right, about 7 minutes of data, okay. So obviously as
37 the bearing rate of the trace goes across in a short time
38 display, that means it is a pretty high bearing rate contact.
39 If it goes across the same angle--it would not expect the angle
40 that to be the same and not intermediate time averaging because
41 it is a longer that they are looking at. My line of questioning
42 here is I'm trying to find out whether this was a high bearing
43 rate contact, a medium bearing rate contact, or a no bearing
44 rate contact, okay. Okay, so you're saying that it was
45 comparable to what we are looking at on the CEP, which is sierra
46 10?
47

1 WIT: No, comparable to sierra 6. A high bearing rate would be
2 like sierra 10. Kind of what I saw was closer to sierra 6 down
3 here towards the bottom--what I saw on my STA gauge was closer to
4 this right here. It had kind of a bend to it.

5
6 CDR CACCIVIO: I would say that would probably be about a five
7 or ten degree bearing change in about seven seconds. It would
8 be less than that--be less than that--can't do that here. Okay
9 so I would say that would be--I would say it is not a high
10 bearing rate contact and it is probably not a medium rate
11 contact, but it is not a zero bearing rate contact.

12
13 WIT: Correct sir. I had bearing rate left I would say if
14 anything moderate was where--how I was looking at it.

15
16 CDR CACCIVIO: You indicated that you felt that based on the
17 bearing rate, the contact would not be close so therefore you--
18 what experience--based on your experience what range would you
19 expect that contact to be at? What would you expect the minimum
20 range to be at for that contact with that type of bearing rate?

21 WIT: I would have to go calculate it back, but definitely out--
22 minimum--I'd have to see how many degrees he traveled on MCA----

23
24 CDR CACCIVIO: It is kind of tough to do I know that, but did
25 you have a feel for what you thought the range was?

26
27 WIT: I still felt he was outside of six to seven thousand,
28 anything in that minimum circle that I was mentioning earlier
29 today, he was outside of that. I didn't have any strong bearing
30 rate to give me something that was close.

31
32 CDR CACCIVIO: And did you consider him to be on a lead or a lag
33 line of sight?

34
35 WIT: Originally I had him going out towards the east and at
36 periscope that would have been a lead. That was original course
37 from way back before all our course changes----

38
39 CDR CACCIVIO: ----So with a left bearing rate, they would have
40 actually put him in a full view, put you in an over lead line of
41 sight?

42
43 WIT: Yes sir, but it doesn't--like I said with all the course
44 changes I don't know initial gain. That was my assumption on
45 which path he was going.

46
47 CDR CACCIVIO: Okay. That is all I have.

1
2 LT JOHNSON: Can I ask a couple of follow ups? Couple of follow
3 up questions regarding this bearing rate issue. A small bearing
4 rate--if you have a small bearing rate, that is indicative of
5 what?
6
7 WIT: Probably a distant contact.
8
9 LT JOHNSON: Is that range of a contact? Is there any other
10 aspect of a contact that would give you a small bearing rate?
11
12 WIT: If the contact was pretty much pointing at you.
13
14 LT JOHNSON: A bow on contact coming at you?
15
16 WIT: A bow on and you've got to kind of be towards him as well.
17
18 LT JOHNSON: To verify a small bearing rate contact as having a
19 range, does a submarine have to do anything with it's own
20 courses and speeds and----
21
22 WIT: ----It depends on the job--where you are at. Contacts at
23 the north you could drive the submarine in different directions.
24 You can say, zero-nine-zero, you could put it back two-seven-
25 zero and that could give you legs of data on better bearing rate
26 then solutions thereafter.
27
28 LT JOHNSON: Is that commonly referred to as driving the bearing
29 rate?
30
31 WIT: Yes. That is one thing you can do with it.
32
33 LT JOHNSON: You would have to drive the bearing rate then to a
34 ascertain--the range or to get a better feel for the range.
35
36 WIT: Yes sir.
37
38 LT JOHNSON: I want to make sure I understand you correctly.
39 There's two ways you can have a small bearing rate and that is
40 to either have a long range contact or have a contact with a bow
41 on aspect i.e. one that is coming at you?
42
43 WIT: It is coming at you or near zero--your matching speed
44 across the line of sight with him but yet you are closing range
45 so it is going to show it a very minimum.
46
47 LT JOHNSON: Yeah, something along the lines of this?

1
2 WIT: Correct sir, something that is close.
3
4 LT JOHNSON: Right. So you are not going to--I just want to
5 make sure that there is another reason for a small bearing rate
6 other than range and it has got to do with the bow on aspect or
7 a contact that is actively closing your position----basically
8 you are both driving to the same point of the ocean.
9
10 WIT: Or very close point.
11
12 LT JOHNSON: Or very close. That is all I have.
13
14 MR. ROTH-ROFFY: Just to follow-up, a question to make sure I
15 understand. The second console--what--how did you have that
16 designated with your calling it a workload share console. What
17 function was he serving in this evolution? I believe you said
18 the passive--or the first console was doing target tracking and
19 what was the workload share?
20
21 WIT: What his responsibility is is to backup the broadband. He
22 is looking at the same DEs as the broadband operator. Broadband
23 has all the trackers. He's going to monitor the tracking--do
24 the tracking. The workload share guy can put up the
25 classification stack, he monitors all the DEs. He is looking
26 for something on his APEs that the broadband operator may not
27 see. He is kind of an extra or backup for that. He's not
28 really--he don't monitor the tracking because broadband is the
29 guy that's making the track, he's making that happen unless that
30 is too overwhelming. You get somewhere where you have a large,
31 large number of contacts then you will split it so it is a
32 little easier for the broadband operator. But three contacts is
33 not a lot.
34
35 MR. ROTH-ROFFY: Who is maintaining the paper log?
36
37 WIT: That would be the workload share operator as well.
38
39 MR. ROTH-ROFFY: Okay, I believe that is all I have for now. I
40 believe Mr. Bill Woody would like to----
41
42 MR. WOODY: Just a couple of questions. What--I think we heard
43 what your responsibilities are, but what is your primary mission
44 of sonar?
45
46 WIT: Detect tracks and then classify.
47

1 MR. WOODY: What do you mean by track?
2
3 WIT: Track as in if you have a trace on the screen for
4 broadband purposes you put a letter designation or a tracker on
5 it and you send that information out to fire control.
6
7 MR. WOODY: You had mentioned some methods of determining range
8 to contacts. Is that one of your primary responsibilities in
9 determining range to contacts?
10
11 WIT: Not primary, but we do it to assist and back up--kind of
12 more so a pride issue in there, we try to get the better
13 solution and ranges than the fire control because they got the
14 computer, we have our wizzy wheels and paper.
15
16 MR. WOODY: Is the primary responsibility for determining range
17 the fire control organization?
18
19 WIT: I'm not sure their primary. I'm sure it probably has
20 something to do with it. I don't know all the different things
21 that fire control for their exact purpose is. I can't get into
22 everything they do.
23
24 MR. WOODY: This is probably a matter of record, but could you
25 give me the names of the people on watch--the unqualified for
26 example----
27
28 WIT: That was SN Rhodes was the UI.
29
30 MR. WOODY: R-H-Y-D?
31
32 WIT: R-H-O-D-E-S. Petty Officer Bowie was broadband. That is
33 the broadband B-O-W-I-E. The over instruction was Petty Officer
34 Reyes, R-E-Y-E-S.
35
36 MR. WOODY: Petty Officer Bowie, what is his rating?
37
38 WIT: Sonar tech third class.
39
40 MR. WOODY: And Reyes?
41
42 WIT: First class.
43
44 MR. WOODY: And in the sonar organization who is the senior
45 sonar man onboard the GREENEVILLE?
46
47 WIT: That would be Chief Gross.

1
2 MR. WOODY: Was Chief Gross in sonar at any time that day?
3 WIT: No, he was left in port that day. The senior sonarman
4 onboard was Petty Officer Holmes who was the one that relieved
5 me right after.
6
7 MR. WOODY: Holmes? H-O-L-M-S?
8
9 WIT: E-S, yes.
10
11 MR. WOODY: His rating please?
12
13 WIT: STS1 as well, petty officer first class.
14
15 MR. WOODY: I know that this has been touched upon. You said
16 you had three traces. Just tell me again what you meant--after
17 the collision you wanted to make sure you had three traces?
18
19 WIT: Yes sir.
20
21 MR. WOODY: What did you mean by that?
22
23 WIT: The demonstrations on the screen, what we were tracking
24 before. I just wanted to make sure with the bump that we had
25 three more traces still up there as in were they getting ready
26 to be tracked again. I saw three traces come back on the screen
27 roughly thereabouts where the other three were.
28
29 MR. WOODY: Did these correlated to the three contacts?
30
31 WIT: They did at that time.
32
33 MR. WOODY: As the ship made the emergency surface, were you
34 aware of any kind of a course change or were you aware of the
35 heading of the vessel?
36
37 WIT: You can see the heading. I had heard we were coming left,
38 but I'm not sure the exact course we had come to.
39
40 MR. WOODY: You didn't take note of this yourself?
41
42 WIT: I did not know the exact--we have indications on the
43 screen, I mentioned earlier the little "V" shape that is there
44 it follows the stern marker, will move to indicate a course
45 change, but on emergency blow--or right prior to the emergency
46 blow, I did not study or focus on the exact heading of the ship
47 at that time.

1
2 MR. WOODY: I see. And you weren't aware whether the ship
3 changed--any change during the blow or not.
4
5 WIT: Not during the blow I did not.
6
7 MR. WOODY: The name of the fire control person that you were
8 working with.
9
10 WIT: That was Petty Officer Seacrest.
11
12 MR. WOODY: S-E-A, spell the rest of the name.
13
14 WIT: C-R-E-S-T I think.
15
16 CDR CACCIVIO: Think you will find that those names are on your
17 interview sheet.
18
19 MR. WOODY: I want to thank you very much.
20
21 CAPT KYLE: There is only three people on watch? That's all the
22 watchstanders that were in sonar?
23
24 WIT: That was all the watchstanders, sir.
25
26 CAPT KYLE: SN Rhodes, had you stood watch with him before?
27
28 WIT: Yes, sir. I was his sonar sup on our East PAC coming back
29 from there.
30
31 CAPT KYLE: How close is he qualifying his first qualifications
32 pertaining to sonar?
33
34 WIT: That would be passing broadband and he's still got a
35 little ways to go.
36
37 CAPT KYLE: How long have you been qualified sonar sup?
38
39 WIT: On this boat three and a half years and I was previously
40 qualified on another boat for about a year I think, if I
41 remember right.
42
43 CAPT KYLE: What was your previous boat?
44
45 WIT: The last boat I was on was the WOODROW WILSON and the
46 JAMES MONROE.
47

1 CAPT KYLE: Little bit different sonar.
2
3 WIT: Yes sir, BQR-21 system.
4
5 CAPT KYLE: And I know CDR Caccivio asked this one. You
6 mentioned earlier you had biologics around the ship--during the
7 orientation phase when the----
8
9 WIT: Yes, sir. We had some fish in the various places
10 throughout and what we'll do when the guests come in we will let
11 them sit on that workload share display because broadband
12 obviously has broadband, he's safety of the ship and you can let
13 the guests sit in the chair, listen to what is out there in the
14 water, as well as if there is more than one that wants to hear
15 then I can also put it on the speaker in sonar to let them hear
16 as well so I can kind of do both.
17
18 CAPT KYLE: So just prior to the emergency blow--during that
19 baffle clear stuff was there any--do you remember by chance were
20 you in a biologics field--getting back to this question about
21 the noisiness around the boat.
22
23 WIT: I believe right prior to we had biologics in about north
24 to about east, but it wasn't heavy, heavy biologics and I don't
25 think they were really close because you could still make
26 determinations on traces on front of them.
27
28 CAPT KYLE: North to northeast, you had some biologics.
29
30 WIT: You had biologics. You always can tell when they are
31 going to be over the level of shipping contacts or closer
32 because they will make noises, they will kind of scream across
33 the displays. You'll still see traces and contacts, but it just
34 makes it a little bit harder, but I didn't feel that they were
35 any----
36
37 CAPT KYLE: ----Some nights can do that.
38
39 WIT: Exactly sir.
40
41 CAPT KYLE: You mentioned that you relieved the watch you went
42 out and this occasion you didn't go out and check the chart, I
43 think we asked that?
44
45 WIT: Yes, sir. I did not check the chart.
46

1 CAPT KYLE: At the time of the incident, did you know how far
2 from land you were? Up to—you knew land was up to the north or
3 you were south of Oahu----
4
5 WIT: Yes sir.
6
7 CAPT KYLE: Did you know how far?
8
9 WIT: Exact distance? No I did not sir.
10
11 CAPT KYLE: So the exact distance it didn't look like--you know,
12 that puts sort of a maximum range to any contacts up to the
13 north, you know where you are and you kind of know where the
14 reef is out there and where the ships normally would operate,
15 they were not going to drive right down the reef so you didn't
16 have the flavor for like the maximum range to the north any
17 contact could be?
18
19 WIT: No sir I did not do that. I had been in prior to—not as
20 supervisor, but kind of tour guide to help people or understand
21 sonar. I was in pretty much sonar throughout the whole day.
22
23 CAPT KYLE: Thanks. I'm finished.
24
25 LT JOHNSON: Tom, can I ask another one? Were you aware, what
26 was the bottom contour like in the area you were operating in?
27 Were you flat, upslope, down slope, over the curve, where were
28 you?
29
30 WIT: You've got a slight--an upslope, but it is not steep till
31 you get close into the island itself then it comes up pretty
32 steep, but it is a slope--it's not like the middle of the ocean
33 is really flat, it kind of slopes off, but not an extreme,
34 extreme amount.
35
36 LT JOHNSON: You had an upslope to the north?
37
38 WIT: Correct.
39
40 LT JOHNSON: How would that effect your--in sounds emitted from
41 vessels to the north as far as SNR's or ranges or would it have
42 an effect on them to you in estimating ranges?
43
44 WIT: It can but it usually in a lot closer--kind of have like a
45 megaphone effect if you are in shallow water it would help--make
46 that sound louder as it gets farther out—but we were a little
47 bit farther out for that to happen.

1
2 LT JOHNSON: Would the vessel being more to the north and the
3 bottom sloping from north to south give the appearance of it
4 being farther away from you or closer to you? Do you understand
5 what I am asking?
6
7 WIT: Understand. The slope we were at I don't think was that
8 great. You could not--I guess depending on how it is bouncing
9 off, it may change your range a little bit to where you might
10 think he is a little farther off.
11
12 LT JOHNSON: But it would have an effect on how you would
13 determine range as the slope?
14
15 WIT: A little.
16
17 LT JOHNSON: Okay and the last thing that I have for you is I
18 understand that at one point you left this unqualified watch in
19 sonar?
20
21 WIT: Yes, that was right before the blow.
22
23 LT JOHNSON: Is there any standing orders or regulations that
24 prohibit that?
25
26 WIT: No sir.
27
28 LT JOHNSON: So you mean you can----
29
30 WIT: There is no order saying that I could have let that guy
31 go. There is nothing saying that it is okay to send the over
32 instruction out. There is nothing to say that I----
33
34 LT JOHNSON: Are there any standing orders or regulations that
35 require that an under instruction watch be directly supervised
36 by a qualified watch stander?
37
38 WIT: There is but I'm not sure what that----
39
40 LT JOHNSON: You're not if that is a standing order----
41
42 WIT: I'm not sure where that's at. I know it is--should have
43 an over instruction that is teaching an under instruction.
44
45 LT JOHNSON: Have you ever allowed a non-qualified or under
46 instruction watch stander to man a piece of equipment without a
47 qualified watch stander supervising them directly? I'm going--

1 is that standard practice to leave an unqualified for a period
2 of time?

3
4 WIT: Not a standard practice. Not a period of time. Will be
5 on occasion to leave a guy there depending on the conditions in
6 sonar. You usually have more than two operators. Usually we
7 have a group of four. It has been done before.

8
9 LT JOHNSON: And you are not aware of any standing order
10 requiring direct supervision?

11
12 WIT: You do have supervision. I don't know of any that says
13 you cannot have them supervised.

14
15 LT JOHNSON: Your understanding is that there are standing
16 orders that require an unqualified watch to have supervision?

17
18 WIT: Yes.

19
20 LT JOHNSON: I think we're saying the same thing. That is all I
21 have, Tom

22
23 MR. ROTH-ROFFY: Does anybody have any further questions for the
24 witness? With that the time is 1508. It concludes our
25 interview of Petty Officer McGiboney.