

UNITED STATES OF AMERICA

NATIONAL TRANSPORTATION SAFETY BOARD

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Investigation of:

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FATAL FIRE AND SINKING OF THE
DREDGE *WAYMON L BOYD* IN CORPUS
CHRISTI, TEXAS, ON AUGUST 21, 2020

Accident No.: DCA20FM026

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Interview of: EARL YOUMANS, Pipeline Controller
Enterprise Products

Via Microsoft Teams

Thursday,
October 22, 2020

APPEARANCES:

LUKE WISNIEWSKI, Investigator in Charge
National Transportation Safety Board

ANDREW EHLERS, Marine Accident Investigator
National Transportation Safety Board

PAUL STANCIL, Rail and Pipeline Accident Investigator
National Transportation Safety Board

ROGER EVANS, Pipeline Accident Investigator
National Transportation Safety Board

LCDR [REDACTED], Senior Investigating Officer
U.S. Coast Guard

LT [REDACTED], Senior Field Investigator
U.S. Coast Guard

ALVARO RODRIGUEZ, Pipeline Accident Investigator
Pipeline and Hazardous Materials Safety Administration

RON PEREZ, Inspector
Railroad Commission of Texas

GRAHAM KENYON, Vice President of Risk Management
Orion Marine Group

MATT PISERELLE, Marine Maintenance Manager
Orion Marine Group

JEFF MORTON, Senior Director of Transportation
Compliance
Enterprise Products

NHAN TRUONG, Compliance Manager
Enterprise Products

JIMMY PASSMORE, Contractor Safety
Enterprise Products

MARK FARLEY, Attorney
(On behalf of Mr. Youmans)

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I N T E R V I E W

(10:05 a.m.)

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2
3 MR. STANCIL: This is Paul Stancil. I'm an NTSB hazardous
4 materials accident investigator and pipeline group chairman for
5 the investigation of the August 21st, 2020, fire and sinking of
6 the dredge *Waymon L Boyd* in Corpus Christi, Texas. This is an
7 interview of Mr. Earl Youmans, who is employed by Enterprise
8 Products. The NTSB accident reference number is DCA20FM026.
9 Today is October 22nd, 2020, and the time is 10:05 a.m. Central
10 Time.

11 Mr. Youmans is located in a conference room at Enterprise's
12 offices in Houston, Texas, and the NTSB team and several others
13 participating in this interview are doing so via a videoconference
14 call.

15 Mr. Youmans, would you please state and spell your name,
16 please?

17 MR. YOUMANS: My name is Earl Youmans. It's going to be
18 E-a-r-l, Y-o-u-m-a-n-s.

19 MR. STANCIL: Thank you, sir. And make sure you speak very
20 loudly and clearly so we can pick up that audio for our recording.
21 This interview is being recorded, and I would like to know if we
22 have your consent to record this conversation.

23 MR. YOUMANS: Yes, sir.

24 MR. STANCIL: Thank you. All right. And we're going to --
25 please also let me know if you have any issues with our audio

1 quality, and we'll address that immediately.

2 So, let's introduce our interview panel, and we'll go through
3 it. State your organization, title, and spell your last name,
4 please. Again, my name is Paul Stancil. My last name is spelled
5 S-t-a-n-c-i-l. I am an accident investigator with the NTSB.
6 Next, my NTSB colleagues.

7 Mr. Wisniewski?

8 MR. WISNIEWSKI: Hi. Good morning, Mr. Youmans. My name is
9 Luke Wisniewski, W-i-s-n-i-e-w-s-k-i, investigator in charge from
10 NTSB.

11 MR. STANCIL: Thank you.

12 Mr. Ehlers?

13 MR. EHLERS: Good morning. My name is Drew Ehlers. I'm with
14 the NTSB. Last name is spelled E-h-l-e-r-s. And I am the
15 operations group chairman.

16 MR. STANCIL: Mr. Evans?

17 MR. EVANS: Yes, Roger Evans, E-v-a-n-s. I'm a pipeline
18 accident investigator for the NTSB.

19 MR. STANCIL: Thank you.

20 U.S. Coast Guard?

21 LCDR [REDACTED]: Good morning. Lieutenant Commander [REDACTED]
22 [REDACTED] and I'm the lead investigator for the Coast
23 Guard.

24 LT [REDACTED]: Lieutenant [REDACTED], [REDACTED]. I'm the
25 assistant senior investigating officer.

1 MR. STANCIL: Thank you.

2 PHMSA?

3 MR. RODRIGUEZ: Good morning. My name is Alvaro Rodriguez.
4 Alvaro, A-l-v-a-r-o, Rodriguez, R-o-d-r-i-g-u-e-z. I am a
5 pipeline accident investigator with PHMSA.

6 MR. STANCIL: Thank you.

7 Railroad Commission of Texas?

8 MR. PEREZ: Good morning, sir. My name is Ron Perez. My
9 last name is spelled P-e-r-e-z. I am inspector out of Region 7.

10 MR. STANCIL: Thank you.

11 Orion Group?

12 MR. KENYON: Yeah, this is Graham Kenyon. I'm the VP of risk
13 management. Kenyon is spelled, K-e-n-y-o-n.

14 MR. PISERELLE: Good morning. This is Matt (audio drop).
15 I'm the marine maintenance manager for Orion.

16 MR. STANCIL: Matt, your audio was cut off. Would you repeat
17 your name and spell it, please?

18 MR. PISERELLE: Matt Piserelle, P-i-s-e-r-e-l-l-e. And I
19 work for Orion Marine Group.

20 MR. STANCIL: Okay, thank you, Matt.

21 Enterprise Products?

22 MR. MORTON: Yeah, this is Jeff Morton, Enterprise Products,
23 senior director of transportation compliance. Last name is
24 spelled M-o-r-t-o-n.

25 MR. TRUONG: This is Nhan Truong with Enterprise Products,

1 spelled N-h-a-n, last name is T-r-u-o-n-g, and I'm the manager of
2 compliance.

3 MR. PASSMORE: Kenny Passmore, Enterprise Products,
4 contractor safety. I'm filling in for Joe Kohler. Last name is
5 spelled Passmore, P-a-s-s-m-o-r-e.

6 MR. STANCIL: Thank you. Is there anyone else on the
7 conference call or in the room with Mr. Youmans that I have not
8 called?

9 MR. FARLEY: Yes. My name is Mark Farley, M-a-r-k,
10 F-a-r-l-e-y. I'm an attorney with Farley & Partners on behalf of
11 Mr. Youmans.

12 MR. STANCIL: Thank you, Mr. Farley.

13 Anyone else?

14 (No response.)

15 MR. STANCIL: Okay. So, Mr. Youmans, you're free to have a
16 representative of your choosing to consult with during this
17 interview, but that person would not be able to speak for you or
18 ask or answer questions. Do you understand?

19 MR. YOUMANS: Yes, I do.

20 MR. STANCIL: And I understand that Mr. Farley, who
21 represents Enterprise Products, is in the room. Is that the
22 person who's representing you today?

23 MR. YOUMANS: Yes, sir.

24 MR. STANCIL: Okay. Thank you very much. So, we'll move on.
25 The purpose of this investigation is to improve safety, not to

1 assign fault, blame or liability. Our sole mission here is to
2 improve transportation safety and prevent accidents. The NTSB
3 cannot offer any guarantee of confidentiality or immunity from any
4 legal proceeding by other agencies, whether local, state or
5 federal.

6 A transcript of this interview will be placed in the public
7 docket for the investigation, which will be available through the
8 NTSB website. Mr. Youmans, do you understand?

9 MR. YOUMANS: Yes, sir.

10 MR. STANCIL: Okay. All right, I will start off with a few
11 questions, and then I'm going to pass to my NTSB colleagues, and
12 we'll continue until everyone has had an opportunity to ask you
13 questions, okay?

14 MR. YOUMANS: Okay.

15 INTERVIEW OF EARL YOUMANS

16 BY MR. STANCIL:

17 Q. All right. So, Mr. Youmans, would you tell us about your
18 background? And if you would, begin with your education, and then
19 continue with what your employment history has been.

20 A. My education; I graduated from Ozen High School in Beaumont,
21 Texas. I went on to Lamar Institute of Technology in Beaumont,
22 Texas. And after that, I did contract work in the refineries.
23 And in 2006, I started with Enterprise Products. I started off in
24 the field at the Almeda terminal. In 2016, I started at the
25 Houston control center.

1 Q. Okay. What is your current job title

2 A. Pipeline controller at pipeline control center.

3 Q. And how long have you been in that position?

4 A. Five years.

5 Q. Great. All right. Tell us about your job duties and
6 responsibilities. What is required of a pipeline controller?

7 A. To monitor and operate pipelines, follow procedures, safety.
8 I also take orders from scheduling to make pipeline
9 (indiscernible) I talk on the phone regularly. I do safety
10 classes to help me become a better pipeline controller.

11 MR. TRUONG: Paul, this is Nhan. Are you guys able to hear
12 him okay on the line?

13 MR. STANCIL: Actually, he's dropping on and off a bit.

14 If you could move a little closer to the microphone, it would
15 be helpful.

16 MR. TRUONG: Yeah, I was kind of noticing your body language,
17 so --

18 (Pause.)

19 BY MR. STANCIL:

20 Q. Yeah, if you would, Mr. Youmans, just repeat what your
21 responsibilities and duties are with the -- as a pipeline
22 controller for Enterprise.

23 A. Okay. I monitor and operate the pipelines. I monitor
24 pressures, flows; following pipeline procedures, following safety
25 procedures. I also follow orders from my scheduling department

1 getting the tasks done on the job.

2 Q. Okay, that's great. And the audio quality is much, much
3 better. I appreciate that. So, how many years of SCADA operating
4 experience do you have?

5 A. About 5 years.

6 Q. And if you would, tell us, for the record, what a SCADA, or
7 supervisory control and data acquisition system is and how it's
8 used to control pipelines.

9 A. SCADA is used to monitor the pipelines from getting it from
10 point A to point B. It's a helpful tool to help us keep the
11 public safe by us operating the pipelines and monitoring pressures
12 throughout the pipeline. And we have alarms that help us better
13 do our job, you know, to get our -- to keep -- do the right tasks.

14 Q. Okay. All right. And have you received training from
15 Enterprise specific to your operating experience?

16 A. Yes. We receive annual training.

17 Q. Tell me a little bit about that. What does that entail?

18 A. It's going over the procedures, new procedures that are
19 coming out, just helping us be better controllers. It's annual
20 training, classroom exercises that we do, go over things in
21 pipeline control.

22 Q. Okay. And that's a recurrent type training?

23 A. Yes.

24 Q. Do you have any certifications, either through Enterprise or
25 any other professional certifications?

1 A. Yes. I'm a qualified controller.

2 Q. Okay. And do you work shift work or just straight salary?

3 A. I work shift work, 12-hour shifts.

4 Q. Four-hour shifts?

5 A. Twelve-hour shifts.

6 Q. Twelve-hour shifts, okay. And how many days per week?

7 A. We work the Dupont schedule. We go to work four sets of
8 nights, then we're off 3 days, then we work three sets of days.
9 We'll work a set of days, 3 days, then we're off one, and then
10 we'll come back and work a set of nights, and it'll be 3 nights.
11 Then we're off for the weekend, then we start 4 days again. So,
12 it's rotating from days to nights.

13 Q. Okay. And on August 21st of this year, the day of this
14 incident, what shift were you working then?

15 A. I was working dayshift.

16 Q. And what time did you come into work?

17 A. I got there at 5:50.

18 Q. Okay. And where is your office physically located?

19 A. Here in Houston, Texas.

20 Q. Is that headquarters for Enterprise?

21 A. It's our control center office.

22 Q. Control center. Okay.

23 MR. STANCIL: All right. So, at this point, I'm going to
24 turn it over to one of my colleagues who is fairly adept at
25 pipeline, and we'll take it from there. And I'll have some

1 additional questions for you at the end, okay?

2 So, I'm going to hand it off to my NTSB colleague Roger Evans
3 at this point.

4 BY MR. EVANS:

5 Q. Good morning, Mr. Youmans, and thank you for agreeing to talk
6 to us today. Hopefully this is a short interview, actually,
7 because we -- I know it's not a very involved pipeline, but we do
8 need to get an overview of the operation and all that. So, you
9 said that you did training annually. Do they do mock exercises
10 within that training where you would actually have situations on
11 pipelines and try to solve what's going on? Is that part of your
12 training?

13 A. Yes, we have tabletop exercises.

14 Q. Okay. And do any of these tabletop exercises include the
15 pipeline for the -- the accident pipeline?

16 A. No, we do it on, like, different pipelines.

17 Q. Okay. Okay, just a question I had. So, how many years have
18 you been working on the 219 pipeline as a SCADA controller?

19 A. About 5 years.

20 Q. Okay. So, this is your initial assignment that you had and
21 you've been with this, then; is that a true statement?

22 A. Yes.

23 Q. Okay. And the training you had to be a standalone left --
24 like flying left seat like a pilot, let's say, are you -- how many
25 weeks were you training with someone by your side?

1 A. I was training, it was like 6 to 8 months.

2 Q. Okay. And during that 6 to 8 months of training, did you
3 have, did you experience any alarms or emergency type situations
4 for this pipeline?

5 A. Yeah, PLM alarms, but that's --

6 Q. Okay. And by the way, if you use an acronym, can you tell us
7 the acronym, what it stands for, for the benefit of everyone else,
8 please? PLM?

9 A. Repeat your question?

10 Q. I said if you're going to be using acronyms like the one you
11 just used, PLM, can you make sure that you tell us what PLM stands
12 for, for the benefit of everyone?

13 A. Pipeline monitor.

14 Q. Okay. Okay, good. So, on the SCADA control in Houston where
15 you sit and that has this pipeline on it, are there other
16 pipelines that you control simultaneously to this?

17 A. Yes.

18 Q. Okay. And how many other pipelines are you controlling?

19 A. Maybe 5 to 10. Between 5 and 10.

20 Q. Okay. And each one of those other pipelines has its own
21 screen; is that correct?

22 A. Yes.

23 Q. Okay. So, this pipeline in particular, is it on your screen
24 constantly as a suppressed window or is it something that you have
25 to log into to look at? How does that work?

1 A. It's on my screen.

2 Q. Okay. So, you can flip between all the screens on your
3 monitor and see all the action of all the pipelines; is that
4 correct?

5 A. Yes, sir.

6 Q. Okay. And on any given evening, are you constantly going
7 between these 5 to 10 pipelines, looking at what's going on
8 between each pipeline?

9 A. Yes, sir.

10 Q. Okay. So, on this particular pipeline, I know there were a
11 couple of pipeline techs out there. How do you typically
12 communicate with the pipeline technicians, let's say for this
13 pipeline? If you need assistance out in the field, how would
14 you -- monitoring the pipeline, how do you communicate with your
15 technicians?

16 A. I communicate with them. I know that's their area, so I'll
17 call them if I have any issues on that pipeline.

18 Q. Okay. And you're calling from a landline to a cellphone; is
19 that correct?

20 A. Yes.

21 Q. Okay, thank you. So, when you -- if you're controlling 5 to
22 10 pipelines, you must have a changeover kind of turnover period
23 between the second controller and the first controller; is that
24 correct?

25 A. Yes.

1 Q. And how long is that period of time?

2 A. Between shifts?

3 Q. Yes.

4 A. Twelve hours.

5 Q. Twelve hours between shifts, and then how many minutes of
6 overlap would you have when you talk to your incoming controller?

7 A. It all depends on what we have going on that day.

8 Q. Okay. Are there standard forms you fill out for the interim
9 period of time there, like a turnover log or something, logbook or
10 something like that?

11 A. Yes, when we're logging into SCADA. And we have to -- we
12 look over the log entries.

13 Q. Okay. Okay. So, just a question, with 5 to 10 lines, have
14 you received multiple alarms on multiple lines in one evening?
15 Has that happened before?

16 A. Yes.

17 Q. Okay, just curious about that. I won't go any further with
18 that. I just wanted to find that out. So, describe the screens
19 and the events that -- you know, the event logs that you have on
20 your -- on the 219 pipeline. What can you see and what kind of
21 items, alarms, and what are the alarms like, audibles, colors,
22 flashing colors? Can you kind of go through that for us, please?

23 A. They're flashing colors. We have red alarms, we have yellow
24 alarms, we have magenta alarms. The alarms come in with sound,
25 noise to alert us that there is an alarming.

1 Q. Yeah, can you go through each one of those colors and give us
2 a description of what that color represents, please?

3 A. Like, a yellow alarm would detail, like, a low state, and a
4 red alarm would be critical, a critical alarm.

5 Q. Okay.

6 A. And a magenta alarm would come in as something far as like an
7 OPI alarm.

8 Q. And an OPI is again?

9 A. Over pressure indicator.

10 Q. Okay, yeah. And does that cover all the colors, red, yellow,
11 magenta; is that correct?

12 A. Yeah, the ones (indiscernible).

13 Q. And each one of the alarms as a unique sound; is that
14 correct?

15 A. Yes.

16 Q. Okay. And for each type of alarm you have, do you have a set
17 of instructions to how to respond? I mean, you're training, I'm
18 sure, basically gives you, you know, the background to respond to
19 alarms because they happen all the time, but do you actually have
20 a set of responses per pipeline? So, if you're running 5 to 10
21 pipelines, if you receive a red critical alarm, the actions that
22 you take, are those kind of via training or are those something
23 that are written down and you can respond that way?

24 A. It's via training.

25 Q. Okay. Okay. And can you access the system via internet?

1 A. Access it via internet?

2 Q. Yeah, can you access your control center via internet?

3 A. I only have access when I'm here.

4 Q. Okay, I was just curious about that. Okay. Does the -- I
5 mean, I know 5 to 10 pipelines, there must be leak detection on
6 some of them, but do you have leak detection systems on the 219
7 pipeline?

8 A. Yes.

9 Q. Okay. And can you sort of describe that for us?

10 A. Whenever there's a change of flow and there's something
11 that's not looking right, it picks up and it'll show that there's
12 something going on, on the system, on the pipeline.

13 Q. Okay. Okay. Now, as far as movements that can be made on
14 the 219 pipeline, what action can you control from within your
15 SCADA center?

16 A. Could you repeat that question?

17 Q. Yeah, I'm just trying to figure out what can be controlled
18 from your SCADA center, like how many valves on this -- you know,
19 it's only a 5-mile pipeline, but off the top of your head, do you
20 know the moves that can be made to open and close valves on that
21 particular pipeline?

22 A. Yeah. We have two MOVs at our site, and we have a control
23 valve.

24 Q. So, as far as monitoring that pipe, the only actions you can
25 take are the two MOVs and the control valve; is that correct?

1 A. Yes. And we have -- yes.

2 Q. Okay. On the evening -- excuse me, on the morning of the
3 accident, was this screen active on your desktop or were you
4 monitoring other pipelines at the time?

5 A. It was active on my screen and I was monitoring pipelines at
6 the same time.

7 Q. And did you get an alarm on this, for this pipeline, 219?

8 A. Yes.

9 Q. And can you describe that alarm, please?

10 A. I had a Viola incoming pressure alarm.

11 Q. Okay. And the alarm that came in, what color was that?

12 A. Yellow.

13 Q. Okay, so that was a low state. So, did that alarm -- if it
14 went to critical, it would turn red. Did it go critical with you
15 on this one?

16 A. Yes, it did.

17 Q. Okay. And what's the timing between the time it turns yellow
18 to the time it turns red? I mean that evening. That morning,
19 excuse me.

20 A. Three minutes.

21 Q. Three minutes, okay. And then when you saw the yellow alarm,
22 you know, the low state come up, and then it went critical, did
23 you make the move on the commodity at that time for the, you know,
24 for the valve actions? When the red critical hit, were you making
25 a move at that time or were you involved with other items on

1 trying to find what happened?

2 A. The pipeline was down at the time because -- the pipeline was
3 down. And when I got the critical alarm, that's when I started to
4 sense that something was going on, so I dispatched my local tech
5 to check out the situation.

6 Q. Okay. And when you -- I guess you contacted the tech; is
7 that correct?

8 A. Yes.

9 Q. Okay. And can you describe that discussion for us?

10 A. I gave him a phone call and I let him know that I got this
11 alarm and something didn't seem right. So, I dispatched him to go
12 check it out.

13 Q. And what was his response?

14 A. He was going to be heading that way.

15 Q. And what were his actions?

16 A. His actions? He drove over there. And when he got there, we
17 closed two manual -- two remote valves and some manual valves at
18 the Viola site.

19 Q. Okay. Can we go back a little bit? When we talk about
20 the -- I'm sure you have a timestamp for this, but just to
21 reiterate, the yellow alarm came in at what time?

22 A. It came at 8:02.

23 Q. Okay. And something I didn't ask you, I know the pipeline is
24 coming from a refinery, is there any communication between you and
25 the refinery at all? Or your control takes place after a, I guess

1 some sort of a battery limit valve or something that says that
2 this is your pipeline now. So you had no communication with the
3 refinery; is that right?

4 A. Repeat that question again?

5 Q. Do you have any communication with the refining people, with
6 the Flint Hills people?

7 A. Yes, we have communication.

8 Q. Is that on a routine basis that you are talking with them?

9 A. Yeah. Whenever they're ready to start doing a batch, we talk
10 to them.

11 Q. Okay. And that batch that they're doing is supplying propane
12 to a storage tank; is that correct?

13 A. Yes, sir.

14 Q. And once that tank is charged, then they turn it over to you,
15 and then you dispense the product to a truck-loading area,
16 correct? Is that pretty much it in a nutshell?

17 A. Yes.

18 Q. Okay. And when you're not transferring product, what type of
19 pressure do you keep on the line?

20 A. It's average, maybe 200 pounds.

21 Q. Okay. And at the time of the accident, when the pipe failed,
22 was there a pumping operation going on, or was there not?

23 A. No, the line was down.

24 Q. Line was down, okay. Okay, thank you. Okay, so we have the
25 low state alarm at 8:02. And the red alarm was -- what was the

1 time for that?

2 A. 8:05.

3 Q. 8:05, okay. And the call you made to your technicians out
4 there, what time was that?

5 A. I called George Ford at 8:09 a.m.

6 Q. Okay. Okay, thank you. So, after George Ford made those
7 moves on those valves, what happened next?

8 A. On those valves? Well, I talked with -- between 8:15 and
9 8:30, I had Mike Goldsmith close valves at origin station.

10 Q. And origin station, that's near the truck-loading area,
11 correct?

12 A. Yes, sir.

13 Q. Okay. So, the valves that Mr. Ford closed were on -- let me
14 get my diagram here. They were up near Cantwell; is that correct?

15 A. No, that's Viola station.

16 Q. Oh, Viola, okay. So, Mr. Ford did Viola, and then the other
17 valves with the 8:30 call, they were done at the origin area?

18 A. Correct.

19 Q. Okay. So, after those valves were closed, what happened
20 next?

21 A. Mike Goldsmith went to Cantwell at 9:05 and closed those
22 valves.

23 Q. Okay. Okay, thank you. Now, according to what occurred that
24 evening and for what your script is for a breach, did it go per
25 the instructions or was it not per instructions? Or do you have a

1 checklist for a breach on this pipeline?

2 A. Repeat that question, sir?

3 Q. Well, let me ask you this first: Do you have a checklist for
4 a breach on this pipeline?

5 A. A checklist?

6 Q. Yeah, if you have a failure on the pipeline and you start
7 losing product, do you have some sort of a checklist that
8 basically tells you what's supposed to be done and in what
9 sequence?

10 A. No. We have an EPC-143 form that we fill out.

11 Q. But that's the form that's after the fact, though, right?

12 A. It's the form that we start filling out when we are detecting
13 we're having an incident, situation.

14 Q. No, I guess what I'm asking is, before a failure occurs, you
15 know, do you have something at your side that talks about the
16 failure on all your pipelines, you know, what you're supposed to
17 do if you have a failure on pipeline 1 or pipeline 5 or pipeline
18 8, whatever pipeline you're working on? Do you have some sort of
19 a cheat sheet that says, okay, I've got a pipeline problem with
20 pipe number 7 and I need to -- you know, I've got these alarms, I
21 need to do this? Do you have any sort of a document that talks
22 about that, or do you go by the alarm situations themselves?

23 A. Yeah, we go -- so, are you asking do we have, like, different
24 procedures for a breach on different pipelines?

25 Q. Yes, that's what I'm wondering.

1 A. No.

2 Q. Okay.

3 A. We have procedures for --

4 MR. EVANS: Okay. I think that's all I have for right now.
5 I'm sure I'm going to have more questions later. But I appreciate
6 your answers here. Thank you very much.

7 MR. STANCIL: Okay, thank you, Roger.

8 Let's move next to Mr. Wisniewski.

9 BY MR. WISNIEWSKI:

10 Q. This is Luke Wisniewski. Just a few follow-up ones based on
11 what you talked about. So, you indicated you logged into this
12 SCADA system. What's the name of that system?

13 A. Texas NGL.

14 Q. And you have a unique username and password?

15 A. Correct.

16 Q. Okay. And in that system does it log all of these different
17 alarms that you get?

18 A. Yes.

19 Q. And does it -- and just to clarify, like you indicated the
20 red, the magenta, the yellow. So, does it have a timestamp when
21 the alarm comes in, and then also when you acknowledge it?

22 A. Correct.

23 Q. And then is there another alarm that goes, or at least -- if
24 you provide a corrective action, is it also recorded to show when
25 a corrective action or that condition has either been satisfied or

1 mitigated?

2 A. Yes.

3 Q. And does it let you know when those states change back to a
4 normal condition?

5 A. Yes.

6 Q. Does it prompt you with an alarm or an audible, or is it
7 just --

8 A. It'll say normal state.

9 Q. Okay. So up on your screen it just shows normal state?

10 A. Yes.

11 Q. And is that recorded in the log?

12 A. Yes.

13 Q. Okay. And so, from all these timestamps that go in there, as
14 the operator there, do you have to synch anything up? How do you
15 verify that that timestamp is synched up with, let's say, GMT,
16 Greenwich Mean Time, the real time?

17 A. It has the timestamp on the alarm, when the alarm comes in.

18 Q. But do you have to do anything as an operator to verify that
19 time is correct?

20 A. No.

21 Q. Okay. And if you don't know, maybe I'm not asking or
22 phrasing it right, but what I was just trying to figure out is how
23 is that synchronized up with GMT time. You know, is there anytime
24 where you've seen it as an operator where it's gone out of whack,
25 let's say 6 seconds, a minute?

1 A. No, I haven't seen that.

2 Q. Okay. All right, fair enough. And you indicated there were
3 some procedures and I'm not sure if we got that. But I wanted to
4 understand why you closed the valves in the order that you did, or
5 how you made that -- so, I want to understand a little bit more of
6 the why that you went through first with the Viola, and then your
7 discussions with them. Can you go through that reason, rationale
8 with us?

9 A. Well, the line was down and the control valve at the site at
10 Viola was closed, so that's why I went through that over at Viola
11 first, and then I talked to George and waited until he got there;
12 then I called Goldsmith so that he could close the meter at
13 origin. And (indiscernible) had the valves closed at, all the
14 remote valves closed at Viola. And Mike Goldsmith went to
15 Cantwell and closed the manual valve there.

16 Q. And I don't want to answer for you, but I just want to have
17 you elaborate more. And I think you know this answer, but I want
18 you to talk to us about it because, right, Viola, the plant is the
19 source, you cut it off at the plant first; then you go down the
20 line and cut off any where it could be back fed from your tanks.
21 But can you walk me through that, or put it in your own words? Is
22 that how you're trained to do that?

23 A. Repeat that one more time?

24 Q. So, from a generalized standpoint, I'm trying to determine,
25 like, on-the-job training. How were you told, first, to do Viola?

1 Is that because you know that's where the source is or where it
2 will be supplied from, the greatest volume that's going to flow
3 through versus -- if you have, let's say, a check valve hung up at
4 origin station and it's coming back through the line, that would
5 be a smaller valve to close? Or how do you -- I'm just trying to
6 figure out the priority.

7 A. Yes, Viola was the priority. Since the, by the control valve
8 being closed there, that was the priority; then closing, making
9 sure we close the valves at origin station.

10 Q. And when you close the origin station valves and the meter,
11 does it flow backwards if there was an issue there? How do you
12 determine if there's a backflow at origin station?

13 A. Determine the backflow? If we're seeing flow on the meter?

14 Q. Correct. Would it show you reverse flow? Is it set up to
15 handle that?

16 A. I don't know offhand here.

17 Q. Okay, because what I'm trying to understand is if the meter,
18 if it could sense that you still had a flow. I believe we're
19 going to get drawings on it. And I haven't looked on this, but
20 yesterday we heard that there was a check valve there. But I
21 wanted to know from you if there's a way for you that's monitoring
22 the system can see if there is a check valve that's hanging up
23 that's allowing flow back out into Texas Pipeline 219.

24 A. Yeah, well, I have the meter that I can see flow on.

25 Q. And so the meter, would it show reverse flow?

1 A. We have a check valve there, it shouldn't. So, are you
2 asking if the meter is capable of reverse flow? That's what
3 you're asking me?

4 Q. Correct. Of monitoring and showing you as the operator if
5 reverse flow is going on, that a check valve is hung open, hung
6 up.

7 A. Yeah, I don't know right offhand.

8 Q. And that's good. Yeah, I don't want you to speculate. If
9 you don't know, that's fine. I think that's all I have. I think
10 I covered the questions about the different times when they came
11 in. You indicated 8:02 and 8:05, and then -- but you're reading
12 that from the log that's in the system?

13 A. Correct.

14 Q. Or is that from your EPC-143 form?

15 A. It's from my -- from both forms.

16 Q. Okay. So, talk to me a little bit more about this EPC-143
17 form. Is that like a rough log? Is that something that you fill
18 out through the incident report?

19 A. Yes, correct.

20 Q. Okay. So it will have, basically, your rough work of what
21 actions you took, who you called, and then show kind of like a
22 checklist or follow up to close things out? Can you talk to us
23 about it?

24 A. Say that again?

25 Q. Can you talk us through a little bit more what's on this

1 form? This is the first we've heard of this form, so I want to
2 understand a little bit more what's on there.

3 A. It's just an emergency log questionnaire of things that
4 happened on the accident and all the notes that I made far as
5 logging my notes in the comments section.

6 Q. And does anyone come in with you at this time and put any of
7 their notes in there, as well, or is this your own note taking?

8 A. This is my own note -- this is my note taking here.

9 Q. And if someone else gets involved, will they fill out another
10 form? Let's say a supervisor or if you had someone else from your
11 station, from your control station interact, would they be filling
12 out their own form?

13 A. Supervision can -- they have a whole bunch of -- they have
14 things on here that they need to fill out attached to this form.

15 Q. Can you discuss a little bit more what's attached to it? And
16 just high level. We'll ask for copies if we haven't already
17 received that. And we might have already received it.

18 MR. WISNIEWSKI: And please stop me, Nhan, if we already have
19 this document.

20 MR. TRUONG: You have it.

21 MR. WISNIEWSKI: All right.

22 MR. TRUONG: Anything that has a Bates label already, except
23 for the two SCADA, it's been submitted before.

24 MR. WISNIEWSKI: Sounds good. Thank you.

25 MR. TRUONG: Yes, sir.

1 MR. WISNIEWSKI: I think that's all the questions I have,
2 then. Thank you.

3 And I pass the floor over to my colleagues.

4 MR. TRUONG: Hey, Luke, just one more clarification.

5 MR. WISNIEWSKI: Yes.

6 MR. TRUONG: You also have the procedure for the control room
7 response in an emergency.

8 MR. WISNIEWSKI: I'm sorry, say that one more time?

9 MR. TRUONG: The procedure that the controller uses to
10 respond to emergencies you also have. That's what Roger was
11 asking earlier.

12 MR. WISNIEWSKI: Okay, thank you.

13 MR. STANCIL: Thank you, Luke.

14 Let's go now to Drew Ehlers.

15 MR. EHLERS: Good morning. I have no further questions at
16 this time.

17 MR. STANCIL: Okay, Drew.

18 Let's go to PHMSA. Alvaro?

19 MR. RODRIGUEZ: Thank you, Paul.

20 BY MR. RODRIGUEZ:

21 Q. Good morning, Mr. Youmans.

22 A. Good morning.

23 Q. What are the ranges for pressure in this pipeline? What is
24 the threshold?

25 A. The threshold meaning you want the --

1 Q. So, what are the low pressures that it can go before it goes
2 to an alarm (indiscernible) some high-high and low-low. So, do
3 you have those numbers with you?

4 A. I don't have the low-low and the high-highs. When I get any
5 lows, they will alarm at Viola at 156 pounds.

6 Q. Okay, I see. So, I'm looking at the SCADA that Enterprise
7 provided, and that is an Excel spreadsheet, ENT-NTSB-PR-00836, and
8 I can see the alarm at 8:02. I see the acknowledgment of the
9 alarm; however, when the command to close the valve was sent, I
10 see 8:41. I don't know if I'm missing some times. So, what time
11 did you send the command to close the valve, and how long it took?

12 A. Okay, the MOV, at 8:41 MOV 20 was closed, but at 8:05 the
13 control valve automatically shut in.

14 Q. And what is the difference between the 8:05 time and the 8:41
15 time?

16 A. The 8:05 time is, that is when the control valve went closed,
17 the pressure controlled valves went closed.

18 Q. Oh, okay. I see. I didn't see it in the form, that's why I
19 was asking. And you know, let me think if I have some other
20 questions.

21 MR. RODRIGUEZ: That's everything that I have for now. Thank
22 you.

23 MR. STANCIL: Okay, thank you, Alvaro.

24 Next, let's go to Texas Railroad Commission. Mr. Perez?

25 BY MR. PEREZ:

1 Q. Good morning, sir. How are you doing today?

2 A. Good morning.

3 Q. Some of my questions may be redundant. I'm going to try to
4 word things a little bit differently. I may ask you some
5 questions you've already answered. I know Nhan volunteered some
6 information a minute ago, but I need some clarity on that. I want
7 to start with your response. When you saw the initial alarm on
8 the 219 line, what was your reaction in your training that you
9 receive from Enterprise? I really would like a simplified answer.
10 When you received the alarm, can you walk me through how you
11 reacted and what tools and resources that you utilized to make
12 your decisions up until you isolated the main line valves?

13 A. Well, I got the low pressure alarm and I got the incoming
14 pressure low-low state alarm. And once I got that, I called,
15 dispatched my pipeline tech out to go out there and check to see
16 if he -- what was going on, if anything was wrong at Viola.

17 Q. Okay. And did you use your experience to make that decision
18 or did you acquire a procedure and start going through your
19 procedures?

20 A. I used my experience.

21 Q. Okay. What was your next decision that you made after you
22 dispatched the operator?

23 A. My next decision is letting my supervision know and my
24 manager know what was going on. And I called the origin station
25 operator to go ahead and block in the meter at that site.

1 Q. All right. And you were using your experience or a procedure
2 when you made that decision?

3 A. Using experience and procedure.

4 Q. What procedures that you were using?

5 A. Just our emergency response procedure that I've been trained
6 to do.

7 Q. Okay. And what was the next step that your procedure told
8 you to do after you notified the supervisor?

9 A. My next step was to have Mike Goldsmith go block in at
10 Cantwell station.

11 Q. Okay. Do you happen to have that procedure in front of you
12 that you're referencing?

13 A. No, I don't.

14 Q. Okay. We're probably going to need a copy and the name of
15 that procedure that you specifically used that morning. I would
16 appreciate that. You had mentioned a control valve closed at
17 8:05; is that correct?

18 A. Yes.

19 Q. And you said the line was not flowing at that time and you
20 were not delivering from Flint Hills. Does that control valve
21 typically stay in the open position when you're not making
22 deliveries?

23 A. No, that control valve is closed.

24 Q. Is it closed all the time or did it close at 8:05? I'm
25 trying to understand that.

- 1 A. It is closed because we were not flowing.
- 2 Q. Okay.
- 3 A. We weren't flowing at the time.
- 4 Q. This is probably a question you may or may not know the
5 answer to, but do you typically use a control valve to isolate a
6 line?
- 7 A. Typically?
- 8 Q. And if you don't know the answer, that's fine.
- 9 A. Yeah. We use MOVs and manual-operated valves.
- 10 Q. And you mentioned that Flint Hills was the supplier. Do you
11 have control access to that MOV, or do you have to notify Flint
12 Hills to control that valve?
- 13 A. The MOV is our asset.
- 14 Q. Okay. And so, you sent the logic (ph.) to MOV 20 at what
15 time?
- 16 A. It was at 8:41.
- 17 Q. And is that the only MOV on that line, or do you have one
18 downstream as well?
- 19 A. We have MOV 25.
- 20 Q. From your memory, MOV 20 is going to be the Viola MOV on the
21 main line valve, and MOV 25 is located where, sir?
- 22 A. MOV 25 is located, is going to be on the 16-inch lateral.
- 23 Q. And who's that lateral connected to?
- 24 A. That lateral goes over to Cantwell, then over to -- yeah, it
25 goes over to Cantwell.

1 MR. PEREZ: I think that's the only questions I have for you.
2 Thank you for your time, sir.

3 MR. STANCIL: Okay, thank you, Mr. Perez.

4 Let's go next to the U.S. Coast Guard.

5 BY LCDR [REDACTED]:

6 Q. Hey there, this is [REDACTED] with the Coast Guard. I'm
7 going to apologize in advance. I know nothing about pipelines, so
8 I may have you kind of walk me through stuff, baby steps, if you
9 don't mind. The first question I have is -- you said at one point
10 the pipeline was down at the time. Does that just mean that it
11 wasn't actively flowing, or what does a pipeline being down mean?

12 A. That means they were finished their batch, pumping their
13 pipeline's propane batch. Because this is a batch line.

14 Q. And I'm sorry, what is a batch line?

15 A. It means they, whenever they're finishing a batch, the line
16 is down until they're ready to start pumping us their next batch.

17 Q. Okay. So, the flow is kind of like they send you a certain
18 number of barrels or gallons or whatever, that comes through, they
19 shut that off as a batch, so the pipeline is down?

20 A. Yes.

21 Q. So, what is left? Is there some left in the pipeline then?
22 Is that what was in the pipeline at the time, stuff that was left
23 from the first batch that hadn't flowed through?

24 A. Yes.

25 Q. Okay. So, if the batch was finished, was the pipeline

1 secured at both ends, or was it secured at someplace to -- since
2 there wasn't anything actively flowing through it? Like, where
3 does it get shut off once a batch comes through? Does Flint Hills
4 shut off?

5 A. Yeah, Flint Hills shut down their process.

6 Q. Okay. Do Enterprise's -- do, like, the MOVs that you've
7 mentioned, do those remain open --

8 A. Yes.

9 Q. -- when the pipeline is shut down?

10 A. Yes.

11 Q. Okay. Okay. I think I'm tracking with you. I apologize.

12 So, the only thing that was left in the pipeline was kind of
13 residuals from the batch that had been completed?

14 A. Correct.

15 Q. Does that change your stance as far as what your monitoring?
16 Like, I'm familiar with, like, air traffic control stuff. They
17 have different targets and different ones are in different
18 critical phases. So, you know, a pipeline that's down, would it
19 be, like, three screens back and you're not as worried about it,
20 or do you monitor them all simultaneously regardless?

21 A. I'm simultaneously monitoring my pipelines even though a pipe
22 is down, when it's down.

23 Q. Okay. Okay. Thank you for clarifying. I don't know much
24 about this. So, you said, at the time, it had -- 200 psi was on
25 the line?

- 1 A. Yeah, that was -- bear with me.
- 2 Q. Sure.
- 3 (Pause.)
- 4 A. Yeah, it was -- at what point are you asking about the
5 pressure on the line?
- 6 Q. Like, when the breach occurred.
- 7 A. It was 257 psi.
- 8 Q. Okay. Is that a normal pressure for a down pipeline?
- 9 A. Yes.
- 10 Q. Okay. And what time --
- 11 A. For this pipeline.
- 12 Q. For this pipeline. Understood. What time had the batch
13 finished? Like, how long had the pipeline been down?
- 14 A. It's around 8:02.
- 15 Q. 8:02 is when the last batch had gone through?
- 16 A. Yes, around 8:02, yes, 8:02 a.m.
- 17 Q. Okay. So, they had just finished the pipeline, the batch
18 coming through?
- 19 A. Correct.
- 20 Q. Okay. Okay. So, kind of backing up a little bit, when you
21 get in, in the morning, do you review previous SCADA logs for each
22 pipeline?
- 23 A. When we get in, in the morning, we review our logger from the
24 previous shift. And when I login, I just, you know, go through
25 simultaneously, looking at all my screens and just checking out

1 things. And we have an alarm page.

2 Q. Okay. How many alarms would you expect to see on a pipeline,
3 like when you login in the morning? Is it normal to see none and
4 one would make you nervous, or do you see 50?

5 A. It all depends on what we have going on far as alarming.

6 Q. Okay. On this pipeline, did you notice anything when you
7 looked through the logs that looked strange?

8 A. Previous, before the accident, or after the accident?

9 Q. Yeah, previous to, like when you showed up in the morning and
10 you looked through the logs, the previous alarms.

11 A. No, I didn't see anything out the ordinary.

12 Q. Okay. Were there any alarms earlier in the day during your
13 shift, on that pipeline?

14 A. I got the alarm when I had -- at Viola when I got a low
15 pressure alarm.

16 Q. Okay. Was that before -- it looks like maybe there was an
17 alarm around 7 a.m. on the pipeline, if I'm reading this
18 correctly.

19 MR. TRUONG: [REDACTED], can you explain what document you're
20 looking at?

21 LCDR [REDACTED]: Oh geez. PR-000836. It looks like the alarm
22 log for the pipeline.

23 MR. YOUMANS: Oh, at 7 o'clock?

24 BY LCDR [REDACTED]:

25 Q. Yes.

1 A. That's when the tickets go in for keeping track of the volume
2 for that day. That's for ticket, ticket purposes.

3 Q. Ticket purposes. Sorry, can you explain that to me, as well?

4 A. That's for volume. Keeping up the daily volume from the
5 previous day at 7 o'clock.

6 Q. Okay. Okay. So, what about the ones that were, like,
7 earlier, around like 4:30 a.m.?

8 A. That's when they started up.

9 Q. Okay. That's when they started the batch going through?

10 A. Yes.

11 Q. Okay. And then at 7, that's just an alarm to do -- like a
12 reminder sort of, like a calendar reminder, take a pressure
13 reading?

14 A. For the tickets?

15 Q. Yes.

16 A. No, that's for -- at 7 o'clock, that's for the daily volume
17 for the previous day. For metering purposes, they keep track of
18 the daily volume.

19 Q. So, does that alarm mean the daily volume was low?

20 A. No, that's just something that comes in for keeping up with
21 the volume. It doesn't mean that the volume was low.

22 Q. Okay. So, it's not related to an emergency, it's just a
23 routine tasker?

24 A. Yes.

25 Q. Okay. Thank you. Okay. And then, so, for the -- like, when

1 you -- it seems like there are quite a few alarms on here. So I
2 assume that, you know, they correspond to various things, like you
3 were saying with starting flow and stopping flow and stuff that
4 would change the volume in there. But when you see a yellow alarm
5 pop up, is your first instinct that it's an emergency or is your
6 first instinct that, you know, it's just an anomaly that needs to
7 be looked at more closely?

8 A. Yeah, that's something that I need to keep an eye on. It
9 doesn't mean that there is an emergency, because there could be
10 something -- a meter issue of some sort. So, it's something that
11 we definitely -- I definitely keep an eye on.

12 Q. Are there any specific actions that you take when you just
13 get a yellow alarm?

14 A. Yeah, I monitor it, and if I feel like there's something
15 wrong, I can get my pipeline tech to go out there and check it
16 out.

17 Q. Okay. How often do you get, like, false readings or false
18 alarms? Is it a common occurrence or --

19 A. False alarms meaning emergency false alarms or --

20 Q. Yeah, you get, like, a yellow alarm or a red alarm and a
21 sensor is bad or something like that.

22 A. I don't know how often. It just all depends on if we're
23 having any issues with metering and equipment and things like
24 that.

25 Q. Okay. When you see a red alarm, what's your first instinct?

1 Is your first instinct this is a really big emergency or this is
2 just kind of something I need to take a look at?

3 A. This is definitely I need to take a look -- I definitely need
4 to take a look at, and I'm going to send someone to go check it
5 out.

6 Q. Would you ever get a red alarm that wasn't something as
7 significant as a breach?

8 A. Yes. We have PLMs that come in if a customer shuts down.
9 When a customer shuts down and the pipeline is, you know, trying
10 to get back to a static state, we can get a PLM alarm, pipeline
11 monitor alarm, which doesn't always indicate there's a leak on the
12 pipeline.

13 Q. Okay. So, a red alert could just be that, for whatever
14 reason, your supplier has shut down the line and they, presumably,
15 wouldn't have told you they're planning to do that?

16 A. Say that again?

17 Q. If you got a -- if a supplier shut down the pipeline, would
18 they tell you in advance that they're going to shut down the
19 pipeline so you know to expect a red alarm?

20 A. Correct.

21 Q. Okay. Do you ever see red alarms that are unexpected that
22 aren't like something as significant as a breach?

23 A. Yes, this incident here.

24 Q. Okay. So, but, for this incident there was a breach in the
25 pipeline. I just, I guess I'm just trying to gauge --

1 A. At the time, I didn't know there was a breach on the
2 pipeline. That's why I immediately dispatched George Ford to go,
3 my pipeline tech, dispatched to see what was going on.

4 Q. Okay. Understood. Thank you. So, just to clarify a couple
5 of the timeline -- just to make sure that I kind of have it
6 correct here, the initial yellow alarm was at 8:02?

7 A. Yes.

8 Q. And then you received an alarm at 8:05. That was the red
9 alarm?

10 A. Yes.

11 Q. And then you made your initial call to George Floyd at 8:09?

12 A. Yes, correct.

13 Q. Okay. What actions did you take between 8:02 and 8:05, if
14 any?

15 A. I was just investigating on my -- investigating the alarms
16 and getting my plan of action to go ahead and get George Ford out
17 there.

18 Q. Okay. And then what about between 8:05 and 8:09, what did
19 you do?

20 A. Between 8:05 and 8:09?

21 Q. Yes, sir. Between the red alarm and the call to Mr. Ford.

22 A. Yeah, between 8:05 and 8:09, I had more phone calls coming
23 in.

24 Q. Okay. Who did those phone calls come from, like other people
25 who noticed the red alarm?

1 A. 8:05 to 8:09. No, I had a phone call -- yeah. No, from 8:05
2 to 8:09 -- could you repeat the timeline again? I'm sorry.

3 Q. No, sure. It's really not specific to the timeline. I'm
4 just curious what you did between getting the red alert and
5 calling Mr. Ford. Just, you know, if you remember what you did or
6 what you were thinking about or that sort of thing.

7 A. Yeah, I started writing, I started logging in my logger my
8 plan of action and what I was doing at the time.

9 Q. Okay. And then you activated the control valve, you closed
10 the control valve at 8:05, as well, correct?

11 A. No, the control valve closed on its own. It's automatic, the
12 control valve.

13 Q. So, the control valve closes automatically?

14 A. Correct.

15 Q. And what psi does that control valve close at?

16 A. Yeah, I don't know right off the specific pressure that it
17 closes.

18 Q. Okay. Do you know if it's more -- I mean, I guess it's less
19 than the 256 psi? It's presumably less than the pipeline was
20 operating at?

21 A. Yes.

22 Q. Okay. Do you know what psi's trigger the yellow alarm?

23 A. It was 150 -- I got the alarm at 156 psi.

24 Q. Okay. That's when you go the alarm, but you're not sure what
25 psi it closes at -- or sorry, it triggers the alarm?

- 1 A. That's correct.
- 2 Q. Okay. And what about the red alarm?
- 3 A. It was at 149 psi.
- 4 Q. Okay. And it looks like the red alarm and the control valve
5 closed simultaneously. Is that how that would work?
- 6 (Pause.)
- 7 Q. If you're not sure, that's okay. I'm just kind of curious
8 how the system works. And then do you have to manually close the
9 MOV valves?
- 10 A. No, I remotely closed 20, MOV 20 and 25.
- 11 Q. Okay. And how do you close them? Is there, like, a button
12 you push?
- 13 A. Yes. I use my mouse to click on the valve and send a
14 command, close command.
- 15 Q. Okay. And what time did you close those?
- 16 A. I closed MOV 20, I issued a command, a close command at 8:41.
17 The valve went to trouble at 8:41, and the valve was in a closed
18 state at 8:42.
- 19 Q. Okay. So, it takes a minute for it to seat itself?
- 20 A. Yes, it has to go through a sequence. MOV 25 -- well, SDB
21 25, I issued a close command at 8:43, and it went closed at 8:45.
- 22 Q. And where are 20 and 25 -- 20's at Viola, correct? Oh, I
23 see, 20's at Viola and 25's at the -- is the Cantwell.
- 24 A. No, they're both Viola.
- 25 Q. They're both Viola?

1 A. Correct.

2 Q. Okay. And how did you know to close those? Is that part of
3 a procedure or did someone tell you to close those?

4 A. When George arrived at the site, we -- I remotely closed the
5 valves when he was there.

6 Q. Okay. Is there a reason why you waited until he arrived and
7 you didn't just close them?

8 A. Well, the control valve, yeah, the control valve was already
9 closed, and where I isolated at origin and -- isolated in origin.
10 So, I was trying to figure out what was going on at the time, so
11 waited to close them when he got there.

12 Q. Okay. Okay. So, you'd already isolated at origin. Are 20
13 and 25 closer to the point of the breach or farther away than the
14 pipeline that was closed? If that make sense.

15 A. Yes.

16 Q. They're closer to it? They're closer to where the breach
17 occurred or they're farther away?

18 A. They're closer.

19 Q. Okay, they're closer. Okay. And then, sorry, going back to
20 the timeline again, the previous alarm document I was talking
21 about, what are the alarms that are, like, subsequent, the ones
22 that happen at 8:41, 8:42, 8:45? Are those indicative of the
23 valves being closed?

24 A. Repeat that question again?

25 Q. So, there's some more alarm indications that occurred at

1 8:41, 8:42, 8:43, 8:45. Are those timeline entries indicative of
2 the valves being closed?

3 A. Correct.

4 Q. Okay. And then what about the last two on this sheet, the
5 ones that are at 10:46?

6 A. 10:46. That's when he put the manual -- the remote valves in
7 local.

8 Q. Remote valves. Sorry, can you explain what that means?

9 A. That means he put it into local state so that me, as
10 controller, doesn't have any control over that valve. So I can't
11 open and close the valve.

12 Q. Okay. Is that, like, a safeguard?

13 A. Yes.

14 LCDR ██████: Okay. Okay. I think that's all the questions
15 that I have for right now. Thank you very much for putting up
16 with my lack of knowledge, sir. Appreciate it.

17 MR. YOUMANS: Thank you.

18 MR. STANCIL: Okay, thank you very much.

19 Let's move on to Orion Group. Mr. Kenyon?

20 BY MR. KENYON:

21 Q. Hey, good morning. ██████ has covered the majority of my
22 questions, so this should be fairly short. So, a couple of
23 things. You advised that you informed or you called George Ford
24 at about 8:09 that morning?

25 A. Correct.

1 Q. Did George at any point call you back, saying that he'd seen
2 the fire or any indication of a pipe blowout?

3 A. He indicated there was an issue in the area, but we didn't --
4 that's all I was informed.

5 Q. Okay. Do you know what time he called you back saying that?

6 A. No.

7 Q. Okay. As I said, you called George at 8:09, asking him to
8 close the valves in at Viola, correct, and then you called --
9 sorry, go ahead.

10 A. Go ahead again, sir.

11 Q. You called George at about 8:09?

12 A. Correct.

13 Q. And then you called Mr. Goldsmith at about 8:30?

14 A. Correct.

15 Q. To close in the valves at origin and then Cantwell, correct?

16 A. Correct.

17 Q. Can you advise why there's about a 20-minute delay? Is that
18 normal practice or policy?

19 A. Can you repeat the question again, sir?

20 Q. Yeah. So, you called George at 8:09 to close in the Viola
21 valves, and you called Mr. Goldsmith at about 8:30 to close in the
22 origin, and then to move on to the Cantwell valves. I'm basically
23 wondering why there's a 20-minute discrepancy between those two
24 calls. Is that normal practice? Has that been the policies and
25 procedures you were working with?

1 (Pause.)

2 Q. I mean, if you don't know the answer, that's fine.

3 A. Yeah, well, when we get a phone call, we have to get the
4 techs dispatched out to the location.

5 Q. Right. So, did you wait to call Mr. Goldsmith until you got
6 a report back from George?

7 A. No, I didn't wait for a call back from George. I already had
8 called -- I called Mike Goldsmith at 8:15, sir.

9 Q. Okay. All righty. I thought earlier on you said somewhere
10 between 8:15 and 8:30. Okay. That's fine then. I just think I
11 have one more question on top of that. Oh, two actually. Who do
12 you directly report to?

13 A. Who I directly report to far as?

14 Q. So, who's your boss, basically?

15 A. Brad Wells.

16 Q. And what's Brad's title?

17 A. Liquids manager.

18 Q. And is he situated in the Houston office?

19 A. Correct.

20 Q. Okay. And one final question: You indicated that the low
21 pressure alarm, which was obviously the yellow, went off at 8:02,
22 correct?

23 A. Correct.

24 Q. You also indicated that the last batch finished at 8:02, it
25 was pushed through the line. Is that just a coincidence?

1 A. Yes.

2 Q. Okay. And do you know what the normal flow rate, the barrel
3 per hour is of the pipeline is during the batch transfer?

4 A. Between 4 and 430, 400 barrels an hour and 430 barrels an
5 hour.

6 MR. KENYON: All right, I appreciate your time. Thank you.

7 MR. STANCIL: Okay, thank you, Mr. Kenyon.

8 And let's go to Enterprise Products.

9 MR. MORTON: Okay, this is Jeff. Can you hear me, Paul?

10 MR. STANCIL: Yes, loud and clear.

11 BY MR. MORTON:

12 Q. Okay. I've got some distance between me and the mic. If it
13 sounds like I'm yelling at you, I'm just trying to make sure you
14 can hear me. I did want to ask some follow-up questions that [REDACTED]
15 had asked about procedures of shutting the pipeline down in an
16 emergency response. So, Earl, is it correct that we do not have
17 specific shutdown procedures on every pipeline segment but that we
18 have protocols that we follow to shut the pipeline down depending
19 on the alarms received?

20 A. Correct.

21 Q. Because depending on the specific situation, it may vary how
22 we isolate the pipeline and where we target to send the
23 technicians; is that correct?

24 A. Correct.

25 Q. We talked about the low pressure alarms that were received at

1 Viola. During your investigation of receiving these alarms, were
2 there any other alarms received at the control center that would
3 indicate a breach?

4 Let me rephrase that. Is the low pressure alarm the only
5 alarm you received during our investigation of this pipeline?

6 A. No, I received the Viola incoming pressure low-low state
7 alarm.

8 Q. But only the pressure alarm is what we received, no other
9 alarms to indicate a breach?

10 A. Correct.

11 Q. And we talked about the yellow alarm and the red alarm. A
12 red alarm, it would not be -- if I understand correctly, a red
13 alarm does not automatically indicate that we start isolating the
14 pipeline?

15 A. Correct.

16 Q. We investigate what is driving the alarm?

17 A. Correct.

18 Q. I think to clarify Graham's question, because there was a
19 statement made between 8:15 and 8:30. You contacted Mike
20 Goldsmith at 8:15, and I think it took about 15 minutes to
21 actually get the manual valves closed at origin station. So
22 that's the 8:15 to 8:30 timeframe?

23 A. Correct.

24 Q. Okay, I just wanted to make sure my notes are correct.

25 MR. MORTON: I think that's all the questions I have right

1 now, Paul.

2 MR. STANCIL: Okay, thank you, Mr. Morton.

3 I just have a couple more and then we'll do a round two if
4 there's any clean-up questions that need to be asked.

5 BY MR. STANCIL:

6 Q. Mr. Youmans, did the control valve close in response to the
7 alarm or was it because of the batch being completed?

8 A. Repeat the question, sir?

9 Q. When the control valve closed automatically, was that in
10 response to the alarm, the low pressure alarm, or was it in
11 response to the batch being completed?

12 A. It's closing due to the -- I don't know right offhand, sir.

13 Q. Okay. Would it typically close on its own in an alarm
14 condition?

15 A. Would it close in alarm condition?

16 Q. Right. Do you have to initiate the closure or would the
17 alarm automatically initiate a closure of the control valve?

18 A. No, it's an automatic control valve.

19 Q. So, does that mean that you have to -- you do not have to
20 initiate it for it to close?

21 A. Correct.

22 Q. Okay. And just to clarify, I'm a little bit confused, which
23 valves -- how many valves on the line are you able to control
24 remotely?

25 A. Two.

1 Q. And they are?

2 A. MOV 20 and 25.

3 Q. So, are you not able to control the control valve?

4 A. Far as opening or closing it?

5 Q. Correct.

6 (Pause.)

7 Q. You said it was automatic, but can you override that? Can
8 you close it yourself or does it only operate in an automatic
9 mode?

10 A. Yes, only an automatic mode.

11 Q. Okay. All right. And just to clarify, do you have the
12 authority on your own to initiate a shutdown of these other valves
13 or do you need permission from your supervisors first?

14 A. Which other valves?

15 Q. Well, you mentioned MOV 20 and 25. Are those valves that, if
16 you determine that it's necessary to close them based on what
17 you're seeing on your screen, do you have the authority to
18 initiate that on your own?

19 A. Correct.

20 MR. STANCIL: Okay. All right, I think that's all that I
21 have. We've been going for more than hour and a half.

22 Mr. Youmans, would you like to take a break or would you like to
23 continue and go on through round two at this time?

24 MR. YOUMANS: Take a break.

25 MR. STANCIL: Okay, very good. Let's take a break for 10

1 minutes and be back at 11:50. All right, so I'm going to pause
2 the recording and we will resume at 11:50.

3 (Off the record.)

4 (On the record.)

5 MR. STANCIL: Okay, the recording is resumed. This is a
6 continuation of the interview of Mr. Youmans. We're going to go
7 to a round two of questions, and we will begin with Mr. Evans.

8 BY MR. EVANS:

9 Q. Thank you again, Mr. Youmans. And I apologize for that
10 earlier statement I made that this was going to be a rather short
11 interview. It obviously is not. Just a few more questions,
12 actually.

13 MR. EVANS: Paul, you're going to display that flow diagram
14 for us on the screen, please, if you can?

15 Okay, hopefully -- has everyone seen this? Or have a lot of
16 you seen it?

17 MR. RODRIGUEZ: Yes.

18 BY MR. EVANS:

19 Q. Okay. So, hopefully, we can kind of settle some maybe
20 misunderstandings here with some of this. So, if we look at these
21 three boxes, the Viola meter station is over on the west side and
22 the Flint Hills refinery is over on the west side, the Cantwell is
23 over on the east side, and origin is in the east, as well. So,
24 what we have here is we have a line to align that incident
25 location with the location along the pipeline, and then we have

1 some of these timestamps of things that went on.

2 So, I just want to go over a few things that kind of confused
3 me with some of the questions that came about. The first item is,
4 Mr. Youmans, you stated that the valve at 8:05 that closed was an
5 asset of Enterprise; is that correct?

6 A. Correct.

7 Q. Okay. And that closed automatically. And would you think
8 from a low pressure or from an end of process? I want to make
9 sure I'm clear on that. End of batch.

10 A. Yeah, I don't know the answer to that, sir.

11 Q. Okay, okay, that's fine. So, if we were to add another box
12 on this sketch, to the left we could add a box that had Flint
13 Hills refining, and we would have a propane line that goes into a
14 tank, and then from the tank it goes to this meter. So, when
15 Flint Hills shuts down their process for a batch, do you get
16 indication on your board that says that that batch has been
17 ceased?

18 A. Yes, there's no flow on the meter.

19 Q. Okay, so that's -- the only way you would know that is if you
20 have no flow?

21 A. Yes.

22 Q. When that control valve closes, you don't get any sort of
23 indication on that, on your SCADA system?

24 A. No.

25 Q. Okay. So, when they stop a batch, and we have the control

1 valve here at 8:05 closing, theoretically -- that control valve is
2 over at the meter station, correct?

3 A. Correct.

4 Q. Okay. So, theoretically, we have stopped the flow and all we
5 have in the pipeline is the residual product that has not been
6 pumped out via the truck-loading station, which is down at origin
7 station, correct?

8 A. Repeat that one more time?

9 Q. With that control valve closed at 8:05, theoretically, the
10 only thing we have in the line is the product that's left in the
11 product line that's going down to the truck-loading station, back
12 to the control valves?

13 A. Yes, going to origin, that's correct.

14 Q. Yeah, okay. So, with that in mind, and this being -- and
15 line 219 being 5 miles long, the steps you took -- I don't want to
16 put words in your mouth, but what I understood from the previous
17 answers is that you did not have a procedure for this particular
18 pipeline for a breach; that is correct?

19 A. Correct.

20 Q. Okay. And the decisions you made on the day of the accident
21 were decisions you made based on your own experience and opinion?

22 A. Correct.

23 Q. Okay. And then at your terminal that morning, was Mr. Brad
24 Mills [sic], your supervisor, was he consulted before you made
25 these decisions, or did you talk to him about it? Or were there

1 any other controllers that you, you know, walked over and said,
2 hey, I've got this issue on this line and I'm thinking about doing
3 this, or was this purely your own mindset that, you know, was the
4 reason you made these movements?

5 A. Yes, it was me.

6 Q. Okay, just you. Okay. I just wanted to make that clear.
7 And just to clear the air about other things, in your previous
8 time on this, operating this line, had you ever had alarms that
9 were the type of alarms where you had to actually call the techs
10 in and say, hey, go check this out? Or is it one of these types
11 of systems that is low maintenance in that regard?

12 A. Can you explain -- repeat it? Far as?

13 Q. No, I'm just trying to figure out if you have a history of
14 issues on this pipeline where you've had to close MOV 20 and 25,
15 where you actually have to go and tell the operators to go hit
16 these valves. In your 4 years and 4 months -- from my best guess,
17 because you said 5 years, and 8 months of training -- of operating
18 this line, have you had many of those issues in the past?

19 A. Issues far as just --

20 Q. Movements. Movements that you had to make from alarms on the
21 screen, on your SCADA system.

22 A. Current alarms or just alarms in the past?

23 Q. In the past. In the past.

24 A. I'm trying to recall here. Are we talking about the alarms,
25 current alarms that I have far as these set of alarms that I'm

1 showing right now?

2 Q. No, let me rephrase it. Let's just say that for this
3 pipeline in your SCADA system, in your past years of operating
4 this system have you had to make these emergency type moves where
5 you have technicians and you say, okay, I want you to do this, I
6 want you to do that; I'm going to close these two motor operated
7 valves? Has this happened before?

8 A. Not to my -- it hasn't happened on me personally.

9 Q. Okay.

10 A. But, yeah, I guess I'm just trying to understand the question
11 a little bit more in detail.

12 Q. Yeah, what I'm trying to figure out is if you made these
13 movements on this particular line because you had done it before
14 and this was your -- in your own mind, this was what your standard
15 operating mode would be for a situation like this. That's what
16 I'm trying to understand. If it happened the first time in your
17 career the morning of the accident or had this happened before and
18 you had this experience and this is why you made movements.

19 A. Yeah, this was the -- this was my first time.

20 Q. Okay. Okay, great. Thank you for that. So, I want to give
21 you a hypothetical and just get your opinion of something. You
22 know, we have a breached pipeline and we have a fire. And you
23 knew about the fire eventually, correct?

24 A. Correct.

25 Q. Okay. And once the fire occurred, was that part of your

1 discussions with Mr. Mills, or did you talk to Mr. Mills, your
2 supervisor, about the fire on this line? Was that discussed on
3 the morning of the accident?

4 A. Mr. Wells?

5 Q. Yeah, Mr. Brad Wells, I guess you said. Wells?

6 A. Yeah, Brad Wells.

7 Q. So that was discussed? On the morning of the accident, were
8 you actually in discussions with Brad Wells when you found out
9 there was a breach?

10 A. Correct.

11 Q. Okay. And did Mr. Wells have any input into what to do or
12 how to guide you or to recommend anything with regard to your
13 actions?

14 A. Yeah, I don't understand that question. Far as are you
15 asking for like, did he give me input?

16 Q. Yeah, guidance on, hey, I think you should close MOV 20 and
17 25 and you should call your pipe techs. Did you get any guidance
18 from him regarding that or was that all yourself?

19 A. That was me.

20 Q. Okay. And then once Mr. Wells knew of the actions you took,
21 did Mr. Wells make any comments to your actions?

22 A. Comments far as?

23 Q. Like why did you do that, or I'm glad you did that, or those
24 types of things. Or no comments at all. I don't know what may
25 have transpired.

1 A. Yeah, I was in -- yeah, I don't recall any comments.

2 Q. Okay. Yeah, I'm just trying to get that clear for the
3 record. Okay, thank you. So, now, here's my hypothetical on
4 this: Let's just say that we know that the line is isolated at
5 Fern Hills refinery, correct? Because they stopped the batch.

6 A. Correct.

7 Q. Okay. So, we know there's no flow in the line. So, all we
8 have is a line that is charged with pressure on it and we have a
9 breach. And we know that the breach is on fire and it's spewing
10 material. And based on that, what was your logic? Did you see
11 this as being -- the MOVs that you acted on and the valves that
12 you had closed, were you looking at cutting down the amount of
13 product that would actually make it to the fire so you could save
14 product, or what was your motivation there?

15 A. Yeah, can you repeat that one more time, sir?

16 Q. You know, we have a pipeline that's charged, right? And you
17 are actually making movements on valves that are at origin
18 station. You made moves at Cantwell and the MOVs in Viola. These
19 moves that you made, the logic that you used to -- why you closed
20 these valves, was it to reduce the amount of product that was
21 going to go and burn? Was that your logic?

22 A. Yeah, we're isolating valves to prevent any more product from
23 getting to the pipeline.

24 Q. But the amount of product at the end portion of this
25 pipeline, was it -- it's not miles, right?

1 Is it feet or -- well, I guess what I'm getting at, could you
2 have done nothing that day and would there have been that much of
3 a difference in the outcome? That's what my question is.

4 A. That's correct.

5 Q. So, had you opened the valves -- I mean, had you left the
6 valves where they were or you had closed the valves, you think the
7 outcome would have been the same?

8 A. Closed which valves, all the valves or --

9 Q. Yeah, all the valves that were closed. I'm just trying to
10 figure out the logic that you used to take these actions if you
11 don't have a set of instructions or an emergency procedure in your
12 hand. The line's already isolated. I mean, the trucks are at a
13 point where they -- that's an automatic system. I'm sure there
14 was something going on with the loading operation. Was that
15 isolated at that time, as well?

16 A. Well, yeah, at 8:03, meter 345 registered no flow, and at
17 8:15 to 8:30, the valves was manually closed at meter 345 at
18 origin station.

19 Q. Okay. So, that valve closure was specifically for the truck
20 loading; is that correct?

21 A. Yeah, I was just isolating the pipeline.

22 Q. Okay. Okay. Okay, I just wanted to kind of clarify that. I
23 was kind of confused with the actions and the motivation for the
24 actions, so I thank you for your input there.

25 MR. EVANS: Okay, I think that's all I have for right now.

1 Thank you.

2 MR. STANCIL: Okay, thank you.

3 Mr. Wisniewski?

4 BY MR. WISNIEWSKI:

5 Q. Yes, Luke Wisniewski, NTSB. Just trying to understand. And
6 I don't think we've answered this, but who makes the determination
7 that a batch is done? Is that you?

8 A. No, when the customer is finished pumping their tank out,
9 that's going to be it. So, whatever they send to us, that's their
10 batch.

11 Q. And so, take me through that, how that works. And let's get
12 a little bit more particular. That morning, the one we're talking
13 about that you said, you know, the line is done because the batch
14 was finished. Is this batch called batch number 75?

15 A. Well, they call them a set of tanks. And whatever volume is
16 it that's in those set of tanks they pump to us. And once their
17 tanks are -- once the tanks are finished or empty, that's going to
18 be the total volume they're going to give us.

19 Q. So, to clarify a little bit more, so batch -- are you
20 familiar with batch 75? Is that what was going to origin?

21 A. Batch 75?

22 Q. Yeah, I have a -- I'll share my screen. It's Enterprise
23 Number ENT-NTSB-PR-001442, and it talks about the batch
24 information So, I just want to make sure we're all talking the
25 same information here. And you may have this in front of you, you

1 know, if it's hard to see. It's an Excel file that was provided
2 to us.

3 MR. TRUONG: I didn't print this one out.

4 BY MR. WISNIEWSKI:

5 Q. And it just shows us a batch 75. So, I want to make sure
6 we're all talking the same -- can you see that information in
7 front of you?

8 A. Yes, I can see it.

9 Q. So, these timestamps, I assume this is coming from the SCADA
10 system, they logs? What we've received from Enterprise was like
11 an Excel file, but is that the format? Because it just shows
12 timestamp, flow rate, meter pressure, pipeline pressure,
13 accumulator.

14 A. Yes, that's correct.

15 Q. Is that what you see as a SCADA operator?

16 A. Timestamps, flow rates, pressures and product, yes, sir.

17 Q. And this meter pressure, what -- for this batch 75, because
18 this is what you've talked to us about. You said it started
19 around 4 in the morning and it went all the way to about -- you
20 said 8:02 is when it stopped?

21 A. Correct.

22 Q. So, this is the flow rate through the pipe. And where's this
23 meter pressure that's listed here in column C?

24 A. That's going to be meter 1004.

25 Q. Okay. So that's leaving Flint Hills and that's your meter?

- 1 A. Yes, in Viola.
- 2 Q. At Viola, and that's 10004 meter?
- 3 A. Correct.
- 4 Q. This pipeline pressure here, where is that taken? Is that
5 right by the meter?
- 6 A. Yes. That's going to be by meter -- it's going to be by SDB
7 25.
- 8 Q. Is the pipeline pressure?
- 9 A. Yes, that's going to be pipeline pressure.
- 10 Q. And the meter pressure is right by the meter?
- 11 A. By the meter, correct.
- 12 Q. Okay. And so, looking at the numbers, you know, it's looking
13 like 460, and it's going through the pipeline at 260, 265, all
14 throughout the time. Do you remember if there was any type of
15 spikes or anything you received on your --
- 16 A. No, sir.
- 17 Q. For this batch now, I know you started at 5:55, so was there
18 any turnover or any spikes, look out for spikes on this transfer?
- 19 A. No.
- 20 Q. Okay. And I'll just continue to scroll down here and go
21 toward the end of the timeframe. And I highlighted here, but it
22 wasn't highlighted when we received it, but I just want to bring
23 these to your attention. You said you closed it or you stopped
24 the batch at 8:02?
- 25 A. Correct.

1 Q. And the flow rate and the meter pressure. So, you still have
2 flow rate of 420 at 8:02, and it looks like there's still a flow
3 rate that continues all the way until about 8:06, according to
4 these numbers here. Can you see that there?

5 A. Yes, I see it.

6 Q. Was there any discussion or anything that was brought up;
7 hey, I'm still seeing flow rate on this, I shut it down? Or, you
8 know, it was automatically shut down at this time that you
9 indicated. And I assume that it's shut down when it dropped below
10 the 150 as indicated. And I guess it was somewhere around here.
11 And that timeframe would be about, you indicated, 8:03, or 8:02?

12 (Pause.)

13 Q. Can you see that information? I'm sorry, did I drop off?

14 A. Yeah, what is the question, sir?

15 Q. So, I'm trying to understand. You indicated that flow was
16 stopped at 8:02, but there's still flow rate going well into 8:06
17 from this meter. Can you explain why there would still be flow
18 rate?

19 A. Oh, that's the process of them shutting down.

20 Q. But I thought you said you stopped it, that it was shut in,
21 or you got the alarm and it shut in at 8:03.

22 (Pause.)

23 A. Yeah, so the question is, you're asking about why we're still
24 showing flow on that meter?

25 Q. Correct. Yeah, I would like you to -- for me to understand.

1 You indicated earlier 8:02, the last batch, that's when it was
2 complete, at 8:02 a.m.

3 A. Yes, 8:02 is my incoming alarm. That's when they're shutting
4 down.

5 Q. I'm sorry, so -- but the pressure here is showing -- I'm
6 trying to -- that's why I was going back through these timestamps,
7 because it shows at 8:02 you still have 257 pounds in the line and
8 you still have pressure of 441, yeah, after -- meter pressure, and
9 then you still have a flow rate of 420. What is this number?
10 What units are we in here, 420 what?

11 A. Barrels per hour.

12 Q. So, could this be off? I mean, can you help me figure out --

13 A. Yeah, I don't know about those numbers there.

14 Q. Okay. Yeah, we have to -- I'll go back to Enterprise and
15 have them -- because we're going to have to request the SCADA logs
16 to show the timestamps because, like I said, we were given these
17 Excel files. But something's off and I just want to make sure we
18 identify it. Because the same thing on this one here; it's
19 identified as batch 75 and the same thing. It talks about the
20 batch volume, but it also has an end time of 8:06 a.m. on the 21st
21 of August. Is this something you put together, this batch
22 information?

23 A. No.

24 Q. Do you know where this comes from?

25 MR. TRUONG: That does come from our SCADA system. The

1 timestamp did come -- this is an output from our SCADA system.
2 We'll have to get you an explanation on the reasoning on the flow
3 rate. But I guess one point to make is the pipeline doesn't
4 instantly shut down.

5 MR. WISNIEWSKI: Yeah, I understand that, but if this was
6 available to the operator, I want to understand if he's still
7 seeing the flow rate at 8:03, 8:06.

8 BY MR. WISNIEWSKI:

9 Q. So, were you seeing flow rate after, as indicated here, on
10 your screen at the time? And I know you were getting bombarded
11 with calls, so I'm just trying to figure out if you saw this.

12 (Pause.)

13 A. Yeah, I don't recall seeing any flow rate.

14 MR. WISNIEWSKI: Okay. All right. That's all the questions
15 I have. Thank you.

16 MR. STANCIL: Thank you, Mr. Wisniewski. If you wouldn't
17 mind taking down -- there you go.

18 Okay, let's go to Mr. Ehlers.

19 MR. EHLERS: I have no further questions at this time.

20 MR. STANCIL: Okay, PHMSA.

21 MR. RODRIGUEZ: Thank you. I don't have any questions.

22 Thank you.

23 MR. STANCIL: Railroad Commission of Texas?

24 BY MR. PEREZ:

25 Q. Yes, sir, I have a few follow-up questions based on Luke's

1 questioning, and then going back to some of mine and Jeff Morton's
2 comments. Let's start with going back to my follow up. My
3 follow-up questions would be you used your training, knowledge and
4 experience to make decisions on closing the valves, right? You
5 were investigating?

6 A. Correct.

7 Q. How many procedures did you use that morning after you were
8 investigating, or during your investigation of the loss of
9 pipeline pressure?

10 (Pause.)

11 A. I don't recall how many procedures I had.

12 Q. Okay, do you know when you guys -- when you as a control
13 center operator went into emergency mode, do you remember that?

14 A. You mean emergency mode far as when I'm getting alarms or
15 when I dispatch?

16 Q. Well, Jeff mentioned you use emergency procedures, but at the
17 beginning you were investigating, right? So, what procedure did
18 you use to investigate this loss of pressure?

19 A. I just used overall general procedure on investigating a
20 pipeline loss of pressure.

21 Q. Okay, thank you. And then follow up with Luke's questions.
22 That control valve that closed, does that close on logic or is
23 that a command when they end the batches?

24 A. Yeah, I don't know.

25 Q. Okay. Did you log what time Flint Hills called you and said

1 that they finished their batch?

2 A. It was around 8:05.

3 Q. At 8:05, you got a call from Flint Hills and they confirmed
4 that they shut down the line or that they finished the batch?

5 A. Give me one second here.

6 Q. No worries.

7 (Pause.)

8 A. Yes, it was around 8:05.

9 Q. Did they say that they'd finished the batch or they shut down
10 the line, or any other reason?

11 A. Their batch was finished. They were done.

12 Q. Okay. And do you know if you guys share SCADA logic
13 information or line pressure information with that valve since
14 it's a joint connection?

15 A. I'm not sure.

16 MR. PEREZ: Okay. That's all the questions I had. Thank
17 you, sir.

18 MR. STANCIL: Okay, thank you.

19 Orion Group.

20 MR. KENYON: No further questions from Orion.

21 MR. STANCIL: Okay, thank you.

22 And finally, Enterprise?

23 MR. MORTON: Hey, Paul, this is Jeff. Can you hear me?

24 MR. WISNIEWSKI: Yes, we can hear you.

25 BY MR. MORTON:

1 Q. Okay. I've got one follow-up question. A lot of discussion
2 about the control valve. And, Earl, there are a lot of automatic
3 devices on a pipeline; is that correct?

4 A. That's correct.

5 Q. Is a pipeline controller involved in the design or
6 programming logic of how these devices operate on the pipeline?

7 A. No.

8 Q. And these devices can be safety devices as well as just
9 normal operating devices for controlling the pipeline; is that
10 correct?

11 A. Correct.

12 Q. So, it's not unusual that a controller does not know what
13 triggers a control valve, an automatic control valve to close?
14 That's not uncommon that you wouldn't know that?

15 A. Correct.

16 Q. Okay. And Roger asked some questions about understanding why
17 we closed the additional valves. And understanding this is a
18 short pipeline segment of only 5 miles and the only valves to
19 close are at the beginning and end locations, have you been
20 involved with other pipeline in-service failures since you've been
21 at Enterprise?

22 A. No.

23 Q. Okay. Is it your understanding that our normal protocol is,
24 even on the longer pipeline segments, we close the automatic
25 valves to isolate the pipeline, is it normal protocol then to

1 dispatch techs to go to the field and close manual valves?

2 A. Correct.

3 Q. Okay. But in this case, there were no more valves to close,
4 so no need to dispatch additional technicians?

5 A. Correct.

6 MR. MORTON: That's all I have.

7 MR. STANCIL: Thank you, Jeff.

8 My apologies to the Coast Guard, I skipped over you. [REDACTED],
9 did you have any further questions?

10 LCDR [REDACTED]: We did. We just had two follow-ups.

11 BY LCDR [REDACTED]:

12 Q. Sir, is it possible to -- is there a bleed off for that line?
13 Is it possible to make that line zero psi, like as part of normal
14 operations?

15 A. To bleed off far as whatever we're --

16 Q. Yes, when you're done with a batch, can you bleed it off to
17 zero?

18 A. No.

19 Q. Okay. And what about, like, a vapor -- do you have a vapor
20 purge system on that line? Or is that not something you deal
21 with?

22 A. You said a vapor purge system?

23 Q. Like a vapor collection system.

24 A. That's something I don't deal with.

25 Q. Okay.

1 A. I don't know if one's there.

2 Q. And then our last question is, if you wouldn't have closed
3 any valves, if you would have done absolutely nothing on the day
4 of the incident, do you think that it would have changed the
5 outcome in any way?

6 A. No.

7 Q. Okay. And why do you think that is?

8 A. The control valves, the -- yeah, the control valve at Viola
9 was closed.

10 LCDR [REDACTED]: Okay. Those are all the questions that we
11 have. Thank you.

12 MR. STANCIL: Okay, Mr. Youmans, I think this brings us to
13 the end of this interview. I just had one last question for you.
14 I know we've gone through a lot of questions, but was there
15 anything else that, in your mind, that you think would be
16 important for us to know about that we failed to ask you about
17 this incident?

18 MR. YOUMANS: No, sir.

19 MR. STANCIL: Okay. Well, we appreciate your time and
20 patience and all your valuable help to help us understand what
21 happened on that day. And we very much appreciate it.

22 And now the time is 12:30 p.m. Central Time and this
23 interview is terminated. We'll stop the recording now.

24 (Whereupon, at 12:30 p.m., the interview was concluded.)

25

CERTIFICATE

This is to certify that the attached proceeding before the

NATIONAL TRANSPORTATION SAFETY BOARD

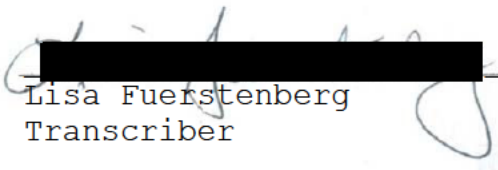
IN THE MATTER OF: FATAL FIRE AND SINKING OF THE
DREDGE *WAYMON L BOYD* IN CORPUS
CHRISTI, TEXAS, ON AUGUST 21, 2020
Interview of Earl Youmans

ACCIDENT NO.: DCA20FM026

PLACE: Via Microsoft Teams

DATE: October 22, 2020

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



Lisa Fuerstenberg
Transcriber



National Transportation Safety Board
Washington, D.C. 20594

Transcript Errata

**TABLE OF CORRECTIONS FOR TRANSCRIPT INTERVIEW WITH: EARL YOUMANS
RECORDED ON OCTOBER 22, 2020**

PAGE NUMBER	LINE NUMBER	CURRENT WORDING	CORRECTED WORDING
Mult. pages		"origin station"	"Origin station"
8	24-25		"In 2015, I started at the Houston Control Center. I qualified on a desk at the Control Center in 2016."
9	9	"(indiscernible)."	"movements."
23	3	[the witness' answer was interrupted]	"We have procedures for abnormal conditions."
25	13	"(indiscernible)"	"George"
46	14	"Correct."	"Incorrect." [Mr. Youmans called Mr. Goldsmith at 8:15 AM. See p. 47, lines 7-8]
Mult. pages		"Mills"	"Wells" [On multiple occasions a questioner mistakes the name of Mr. Youman's supervisor. See p. 54, line 24 and page 57, line 1]
Multi. pages			There appears to be confusion regarding the number of Enterprise procedures. To make the record more clear, Mr. Youmans offers a clarifying statement. Please see Attachment A]

If, to the best of your knowledge, no corrections are needed kindly circle the statement "no corrections needed" and initial in the space provided.

NO CORRECTIONS NEEDED.

Initials

Earl Youmans
Printed Name of Person providing the above information

[Redacted Signature]
Signature of Person providing the above information

11-25-2020
Date

**TABLE OF CORRECTIONS FOR TRANSCRIPT INTERVIEW WITH: EARL YOUMANS
RECORDED ON OCTOBER 22, 2020**

ATTACHMENT A

There appears to be confusion regarding Enterprise procedures. See, for example, page 48, Line 10; page 23, line 3; page 29, lines 9 – 11; and page 32, lines 5-6. The following two procedures are relevant to the NTSB's investigation: Enterprise Origin Station Receipt from Flint Hills West (TXL-CORPC3-FHW-REC-001) and Enterprise Emergency Response Procedure (HCC-PCOT-001). I understand that Enterprise has provided copies of both procedures to the NTSB in response to information requests.

I have been trained on the use of both procedures and they are available to me from my computer station in the Houston Control Center. I did not reference the procedures on the day of the incident, but my experience with the procedures guided my actions taken as part of the batch transfer from the Flint Hills Refinery. They also guided my response to the low pressure alarm on Line TX219.