

ENBRIDGE PIPELINES INC.

INTERVIEW
OF
DAVID SCOTT

T. Tollefson, Esq. For Enbridge Pipelines
and C. Goeson Inc.

S.M. Jenner, Ph.D. For NTSB

R. Gulstad and Ms. K. Butler For PHMSA

Laura Slywka Court Reporter

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1 INTERVIEW OF DAVID SCOTT, TAKEN AT 2:19 P.M.,

2 MR. JENNER: Good afternoon. Today is

3 Wednesday, July 28th, 2010. My name is Stephen

4 Jenner, and I'm an investigator with the National

5 Transportation Safety Board in Washington, D.C. We

6 are currently in Edmonton, Canada, at the Crown

7 Plaza Hotel, and this is in regards to a pipeline

8 release of crude oil in Marshall, Michigan, that

9 occurred on July 26th, 2010.

10 I would first like to go around the room and

11 have everyone introduce themselves, and if you

12 would, just state your name with the correct

13 spelling, your title, and who you're with. I'll

14 start to my left.

15 MR. GULSTAD: Okay. I'm Rick Gulstad. I

16 work for PHMSA, Pipeline and Hazardous Material

17 Safety Administration. I'm a staff engineer with

18 [REDACTED]

19 [REDACTED].

20 MR. TOLLEFSON: Tyler Tollefson. I'm with

21 Enbridge Pipelines. I'm a senior legal counsel.

22 MR. GOESON: I'm Curt Goeson. I'm with

23 Enbridge Pipelines. I'm control centre supervisor.

24 MR. JENNER: Okay. David.

25 MR. SCOTT: I'm David Scott, control

26 centre operator trainee.

27 MR. JENNER: Very good. Thank you.

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1 MR. GULSTAD: Karen, why don't you introduce
2 yourself.

3 MS. BUTLER: I'm Karen Butler. [REDACTED]
4 [REDACTED] but I'm currently in
5 D.C. this week, and I am a program -- regional
6 program manager.

7 QUESTIONS BY MR. JENNER:

8 Q MR. JENNER: The first person we'd like to
9 talk to is Mr. Scott. So would you please state
10 your full name with the spelling?

11 A David Scott, D-A-V-I-D S-C-O-T-T.

12 Q Thank you, David. Could you give us your address
13 and telephone number and cell number, please?

14 A [REDACTED]
15 [REDACTED].

16 Q Do you have a -- who are you employed by?

17 A I'm employed by Enbridge Pipelines.

18 Q And what is your current position?

19 A Operator trainee.

20 Q And how long have you been a trainee, considered a

21 trainee?

22 A One month.

23 Q All right. I'm just going to ask you some general

24 questions about your background. Can you tell me

25 how long you have been with Enbridge.

26 A 31 years.

27 Q If you would walk me through just how you got

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1 started, what capacity, and how you worked your way
2 up to where you are now.

3 A I started in Edmonton terminal as a utility man,
4 worked my way up to a gauger or relief gauger.
5 That was over a two-year period. Since then, I've
6 been in operations.

7 Q And how long in operations?

8 A 29 years.

9 Q And could you give me a little detail about what
10 you do in operations?

11 A I was an operator. I run pipelines from Edmonton,
12 Alberta, Canada, down to Superior, from Superior
13 through Griffith back to Sarnia.

14 Q Are you -- now, you called yourself a trainee. Can
15 explain why you're -- why you gave yourself that
16 title?

17 A Because I've been off work for -- I was off work

18 for six months due to a major illness, and I've
19 just returned back to the control centre in the
20 last month.

21 Q But prior to six months, you were a qualified or
22 certified pipeline controller?

23 A Yes.

24 Q What is the official title of what we're talking
25 about? Is it an operator?

26 A I was an operator.

27 Q And, again, I'm sorry, in that capacity, how long

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1 have you been an operator?

2 A Up until my sickness, it was 29 years.

3 Q 29 years. Okay. How long is this process of, oh,

4 I'll call it refresher training? How long is that

5 expected to continue?

6 A There was no set time frame.

7 Q Okay. Have you -- things coming back to you pretty

8 well, do you think?

9 A Yes.

10 Q On the last couple of days since Sunday, have you

11 been the primary operator? Have you been the one

12 making decisions about product movement?

13 A Decisions for product movement actually come out of

14 Calgary from shipper services.

15 Q I'm sorry, just to clarify, opening and closing

16 valves and monitoring. Were you operating the

17 SCADA?

18 A I was operating with a mentor the SCADA system.

19 MR. GOESON: Sorry, Stephen, is that since

20 Sunday was the question?

21 Q In the last -- on Sunday.

22 MR. GOESON: Okay. On Sunday.

23 Q MR. JENNER: Okay. Were you the primary

24 operator, if that makes sense, and you were being

25 overseen, or were you observing?

26 A I guess, then, I would be the primary operator with

27 a trainer sitting next to me.

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1 Q Okay.

2 A Advising me or telling me details.

3 Q Well, what I would like for you to do is if you can

4 just walk me through your shift that day, what time

5 you arrived at Enterprise and walk me through the

6 shift changeover and some -- if any information

7 significant stands out, if that was discussed, if

8 you let me know about that.

9 A I came into the office about 0615 hours daylight

10 time, started to take my rundown, took over about

11 6:30 daylight time. Was advised that there was a

12 number of jobs going on at the time, inspections,

13 people out working on the pipelines.

14 Q Was it --

15 A Pretty standard.

16 Q In terms of workload, was it a pretty normal,

17 higher workload, smaller workload than typical, or

18 was it a typical day?

19 A Smaller workload.

20 Q Would you conceptualize it as just standard

21 operations?

22 A Yes.

23 Q Pretty routine day?

24 A Yes, pretty routine day.

25 Q Okay. If you can just continue on. From 6:30,

26 what were some of your activities?

27 A Doing CMT on the odd hours of Mountain Standard

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1 Time, which is 7, 9, 11, 1300, 1500, 17. That's

2 Mountain Standard Time.

3 Q And please explain what doing CMT is and what it

4 involves.

5 A Is the tracking of the commodity of the oil in the

6 pipelines. It's a paper -- computer paper

7 initiated thing. So we do all our checks and

8 balances on those numbers. We set up all our times

9 on those numbers.

10 Q Okay. What information are you looking for?

11 A Discrepancies, trying to find out when your next

12 swing would be. We set those up six hours in

13 advance. If I have to make any rate changes

14 because of new pump orders with Dean Such.

15 Q Now, from the times you just named, when you do

16 these CMTs, were they all pretty much as expected?

17 Was there something, any one of them you consider

18 abnormal?

19 A No, they were all perfect.

20 Q Can you tell me some other activities you were

21 doing in addition to the CMTs, the scheduled ones?

22 A Running the pipeline, talking to pig trackers who

23 were on line 6B at the time.

24 Q Did you have deliveries to make during --

25 A When I came into work, I was already delivering

26 into Stockbridge, Minnesota.

27 MR. GOESON: Michigan.

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1 A Michigan, sorry.

2 Q MR. JENNER: And anything else?

3 A No, I was in there until the time I shut down.

4 Q Okay. When we -- from my understanding of what I

5 learned earlier, there was a scheduled delivery

6 shutdown?

7 A Yes.

8 Q Can you tell me about that?

9 A There was a scheduled shutdown for a tankage

10 conflict at Griffith at about 1500 hours Mountain

11 Standard Time.

12 Q For, I'm sorry, for tankage?

13 A No -- well, the tankage problem was at Griffith.

14 Q Right. Okay.

15 A So on completion of the delivery at Stockbridge at

16 1457 hours Mountain Standard Time, I started to

17 shut down the pipeline in standard procedures.

18 Q And what was the problem at Griffith?

19 A They didn't want to prepump a batch.

20 Q And?

21 A That comes from scheduling in Calgary.

22 Q So this is sort of a scheduling conflict?

23 A Yeah, I guess.

24 Q How -- is this something that happens now and then,

25 or is this very rare that you have to address this

26 type of problem?

27 A It happens. The customer doesn't want their oil

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1 until a certain time, so it's pretty standard.

2 Q Pretty standard. Okay. That's all. So if you

3 walk me through the process of shutting down, it

4 was a scheduled shutdown, so what are some of the

5 SCADA inputs that you need to do or people you need

6 to talk to?

7 A I talk to the Griffith terminal operator and ask

8 him, on the stopping of my units, to stop his

9 boosters.

10 Q Okay. Did that go okay on their end?

11 A Yes. I -- from SCADA, I stopped my units at

12 Griffith. I stopped my units at La Porte as the

13 pressure drop came through. As the pressure drop

14 came through Mendon, I stopped my units there. And

15 I raised my holding at Stockbridge to slow down the

16 flow of oil so I didn't break the column or drain

17 too much up.

18 Q Okay. Before you continue, break the column, if

19 you would just tell me what that means and what it

20 means to you.

21 A Column is when you cause the pressure to be too low

22 at a high point.

23 Q Okay. So were you successful in doing what you set

24 out to do?

25 A Yes.

26 Q So I think the last thing, you addressed Mendon?

27 A Mendon, yes. As the pressure drop came in to

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1 Niles, actually, it's Niles and Mendon, I dropped
2 the units there. As the pressure drop came into
3 Marshall, I dropped the units. At that time, a few
4 seconds later, I got an MBS alarm, Material
5 Imbalance System alarm, and that was at about 1502
6 hours.

7 Q And what does that tell you, the MBS alarm?

8 A That there's a discrepancy. So I phoned my shift
9 lead, advised him that I had a five-minute MBS
10 alarm at those -- between the two locations that it
11 signified.

12 Q You phoned your shift supervisor, is that -- I'm
13 sorry.

14 A My shift lead, yes.

15 Q Shift lead, yes.

16 A I call him my shift lead. He called MBS. At that,
17 I continued to raise my holding at Stockbridge.

18 Q Okay.

19 A Once I noticed the flow had stopped into the tanks,

20 I closed the delivery valve, the tank valve, and

21 the sectionalizing valves, all standard procedure.

22 Q You are closing all these valves?

23 A Yes, because the line was shut down. At 1506 hours

24 Mountain Standard Time, I got an all clear from the

25 MBS analyst saying it was a column separation, and

26 at that time I also got an alarm from SCADA saying

27 that that alarm had cleared.

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1 Q And this alarm on SCADA, does this come up on a
2 designated alarm screen?

3 A Yes.

4 Q And what -- are they separated by colours?

5 A Yes. Severity 8, red.

6 Q And what colour was this?

7 A It was red.

8 Q This was red?

9 A It's a high priority alarm.

10 Q Is there an audible?

11 A Yes. It's audio-visual alarm?

12 Q Are all the alarms audible, or just more the

13 critical ones, the red ones?

14 A They're all.

15 Q What colours are there in terms of alarms?

16 A Green when you're starting or stopping units, S4.

17 There's an S6, it's a little bit more critical, and

18 then the S8s.

19 Q And each one of those has --

20 A Different colours, and they're all audio-visual

21 alarms.

22 Q The same tone, the same audible tone?

23 A Yes.

24 Q Just a bit of a side note, what -- do you like the

25 audible part of the alarm?

26 A Yes.

27 Q So if you would just elaborate on, you used the

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1 term discrepancy. What is the discrepancy that
2 you're referring to?

3 A It just said that there was a five-minute imbalance
4 between two locations.

5 Q And what does that mean to you? When you look at
6 that, what is the significance of that, a
7 five-minute imbalance? What's happening in the
8 pipeline?

9 A That it wasn't -- it was missing some data. There
10 was something that -- the computer itself that runs
11 MBS, there's two different systems. I'm not sure
12 what they are. And it -- to one set of numbers to
13 the other set of numbers, there was an imbalance,
14 and so it rings to say there may be a potential
15 problem.

16 Q Okay. So when you're saying missing some data --

17 A Not missing data. They're -- the two systems are

18 not lining up properly.

19 Q The numbers --

20 A The numbers.

21 Q -- are not matching up. Okay. And that causes,

22 was that the first alarm? Was this -- it showed up

23 as an alarm?

24 A Yes.

25 Q And that's when you started to make your calls?

26 A Yes.

27 Q Okay. If we can finish that part of the sequence,

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1 you had finished closing valves according to

2 procedure?

3 A Yes.

4 Q What happens from that point? You got an alarm

5 from a SCADA that -- the SCADA information that the

6 alarm had cleared.

7 A Yes.

8 Q Okay. So what does that tell you?

9 A That it had cleared. Whatever the two systems

10 were -- numbers weren't jibing, they came back into

11 line.

12 Q Do you have any idea why the numbers, is there any

13 reason from the SCADA that would help you

14 understand why the numbers weren't...

15 A No. Not my expertise.

16 Q Whose expertise is it to understand why there is a

17 discrepancy when -- in real time?

18 A The MBS analysts.

19 Q Okay. So as far as you're concerned, did the

20 whatever happened was causing the initial alarm,

21 that was resolved?

22 A Yes.

23 Q Okay. All right. Can you -- what were some of

24 your -- after all the valves were closed, the

25 SCADA's saying it had cleared. Were you done with

26 that situation?

27 A Yes.

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1 Q What were some of your activities for the remainder
2 of the shift?

3 A I talked to a local electrician and had him set up
4 a station for a pig bypass that was an hour away
5 from the restart. We set that up. He bypassed the
6 station. I did my 1500 CMT. All my numbers looked
7 good at that point.

8 Q Now, with the scheduled line shutdown, how long was
9 that in effect?

10 A I shut down from -- I was supposed to shut down
11 1500 hours to 0100 hours.

12 Q 1500, I'm sorry, until?

13 A 0100 Mountain Standard Time.

14 Q Right. And how -- you were supposed to, and is
15 that -- how close were you?

16 A Three minutes early.

17 Q Okay. But very close.

18 A Yes.

19 Q Was the line started up again during your shift?

20 A Not while I was there.

21 Q Does that mean it occurred after your shift, after

22 your shift ended?

23 A Yes. Well, the line was supposed to start up at

24 0100 hours. I have no idea what transpired after I

25 left.

26 Q And your shift ended at what time?

27 A About 1730 Mountain Standard Time.

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1 Q And this is Sunday night?

2 A Yes.

3 Q During the -- you had a shift handover to the

4 oncoming operator?

5 A Yes. That started about 1715 hours Mountain

6 Standard Time.

7 Q What were -- do you recall some of the things that

8 were discussed?

9 A Maneuvers I'd done during the day, that I'd

10 finished the Stockbridge delivery. When he started

11 up, he was supposed to start up from Griffith to

12 Sarnia -- actually to Marysville was our next

13 scheduled delivery. I told him about the pig

14 bypass. I'd set it up. I'd set it up with the

15 electrician and the pig trackers that we're

16 shutting down at 1500 hours, starting up at 0100

17 hours. The station was on bypass, and we're all

18 set to go. And the electrician would be out in the
19 morning to turn the station back on when required.
20 I told him about the MBS alarms, and the rest was
21 standard.

22 Q When you were nearing the completion of your shift,
23 did you have any additional alarms to suggest any
24 discrepancies or any abnormalities in the system?

25 A No.

26 Q So by the end of your shift, you were satisfied
27 that things, operations were normal?

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1 A Yes.

2 MR. JENNER: Well, that's the questions I
3 have for right now. We'll send it around the room.

4 Rick, do you have any questions?

5 MR. GULSTAD: Oh, I'll let Karen go ahead.

6 MR. JENNER: All right. Karen Butler.

7 QUESTIONS BY MS. BUTLER:

8 Q MS. BUTLER: Yeah, first of all I just want
9 to start out by telling you how happy I am that
10 your long-term illness is over, and we can all
11 celebrate that. And in listening to this, I don't
12 want to lose track of that.

13 But as we step through here, there's some
14 things that I'm going to ask you that are just
15 simply to clarify my understanding of what you
16 said. So when I ask these questions, don't be
17 afraid to, you know, maybe give me a little lecture

18 on what you meant to say or what you think is

19 standard procedure, okay?

20 A Okay.

21 Q When we talk about the column, there being a column

22 separation, is that, to you, something similar to a

23 slack line condition? Have you heard it called a

24 similar technology or similar term, or is that

25 something totally different to you?

26 A No, it'd probably similar.

27 Q Okay. Is there anything that that brings out

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1 that's different to you? Like when I say slack

2 line condition, does that mean something different

3 that's slightly different than the column

4 separation alarm?

5 A Well, to me it would mean that you're running low

6 pressures.

7 Q Okay. Does that particular section of line

8 typically run in a slack line condition or

9 frequently run in that condition?

10 A Not typically.

11 Q Okay. When I say -- when you say not typically,

12 does that mean to you that normally you don't have

13 to contend with that type of condition but on

14 occasion you have before?

15 A We have -- yes.

16 Q Okay. All right. And is that something that you

17 find a little bit more challenging to deal with?

18 A No.

19 Q Okay. And is that something you have some specific
20 training about besides your previous experience?

21 A How do you mean specific training?

22 Q Like sometimes when you go through slack line
23 training between different controllers and say they
24 have different testers, there might be one person
25 that says the slack line condition will look like
26 this on this particular line, and by the way,
27 there's a back pressure control valve that you need

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1 to adjust up here to eliminate that and when you do
2 that, you should do it in the following intervals.

3 And then another particular trainer might say I
4 don't usually use that back pressure control valve.

5 I use something else, and that's how I handle the
6 slack line condition. So have you had any specific
7 training on that particular line segment on how to
8 handle that slack line condition?

9 A Not -- no.

10 Q Okay. And regarding that, is there a back pressure
11 control valve or anything that you can set besides
12 changing your pump configurations to adjust for
13 that slack line condition?

14 A Yes, we have pressure control valves.

15 Q Okay.

16 A It's hard for me to understand what you're
17 perceiving as slack line conditions.

18 Q Okay. I'm just talking about where you don't have
19 the line as packed, so to speak, as you would like,
20 and you begin to develop a void, so it's not
21 totally full. And I think that you said this is
22 when you're looking at a high point. You don't
23 want it to get too low, the pressure to get too low
24 at a high point, which would be similar to what
25 we're frequently calling a slack line condition,
26 where there's almost a gap there.
27 So I just -- you say it in your own terms

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1 where -- that there is a pressure control valve or
2 a control valve that you can adjust the setting on,
3 is that correct, in order to keep the pressure high
4 enough at that high point that it doesn't cause you
5 to have this column separation alarm? Is that
6 fair?

7 A Yes.

8 Q And that pressure control valve that you would
9 adjust, can you tell me, like, what it's called or
10 if there's a number that you remember on the
11 screen? If you don't, that's fine. But if you
12 could tell me, like, vaguely where it's located,
13 that would be helpful.

14 A Well, our pressure control valves work on either
15 the suction or the discharge side of either
16 station.

17 Q Okay.

18 A As to the physical location, I would look at my

19 SCADA display.

20 Q Okay.

21 A Typically they're on the downstream side of the

22 station.

23 Q Okay.

24 A As to reality, I don't know where they would be.

25 Q Okay. That's fine. Regarding this particular one

26 that you would have adjusted to eliminate this

27 column separation alarm that came in, where was

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1 this? Was it -- what station was it closest to?

2 Forgive me, but I'm not looking at a schematic.

3 MR. GOESON: All right. So I just want to,

4 sorry, I just want to clarify for Dave, because I

5 believe Karen's referencing his comment, he said --

6 talked about raising the holding on the line. I

7 believe that's what she's referencing, just for

8 clarification.

9 Is that right, Karen?

10 MS. BUTLER: Sorry, could you say that

11 louder? Forgive me, I'm --

12 MR. GOESON: Sorry, Karen, I'm just trying

13 to clarify for Dave that I believe you're

14 referencing his comment about the line shutdown

15 when he said --

16 MS. BUTLER: Yes.

17 MR. GOESON: -- we raised the holding. Is

18 that correct?

19 MS. BUTLER: Yes.

20 MR. GOESON: And so you're asking the

21 location of that particular valve?

22 Q MS. BUTLER: Yeah. And if you actually can

23 give me, if it's got a valve number, if you know

24 that, great, and if not, we'll just wait until we

25 have a copy of the display.

26 A I do not know the valve number.

27 Q Okay. That's fine. That's fine. Okay.

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1 A And the actual --

2 Q At some point we may need somebody to explain which

3 valve that is. Okay. So I want to go back just a

4 little bit from that now that I understand a little

5 bit more of what was going on in the middle. And I

6 think you said that when you came in, it was like a

7 below average day, maybe, or close to average

8 regarding the number activities that you had to

9 check up on. And I take it that we're running a

10 pig somewhere in here; is that correct?

11 A Yes.

12 Q And can you talk to me a little bit about -- had

13 that pigging operation been going on for a

14 continued amount of time, or had it started

15 actually and stopped? Was the pig stuck? What all

16 was going on with that pigging operation, based on

17 what you know?

18 A When I came in, the pig was in the line. I believe
19 it went in on the Saturday, and it had stop -- it
20 had run continuously up until the time that I had
21 shut it down.

22 Q Okay.

23 A In fact, according to the schedule, there was no --
24 supposed to be no shutdown.

25 Q Okay. So talk to me a little bit about that, so I
26 get squared away. I assume what you're talking
27 about is we know that we're running a pig. Were we

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1 running a smart pig, do you know?

2 A It was a cleaning caliper tool.

3 Q Okay. So on your cleaning caliper tool, that

4 specifically -- did they give you, like, any

5 velocity considerations, or were you having to deal

6 with any type of movement control on the pig

7 itself?

8 A No.

9 Q Okay. All right. And when they tell you that

10 there's no scheduled shutdown but yet you knew you

11 had to shut down according to, I think what's a

12 commodity schedule that you're referring to, did

13 that mean that they just meant that the pig was

14 going to run continuously? But obviously you had

15 this scheduled delivery shutdown, and as a result

16 of that, the pig had to stop? Is that what I'm

17 picking up?

18 A Yes. When they originally set up the schedule for

19 the pig, it was supposed to be continuous flow.

20 Q Okay.

21 A But because of problems, they had to shut down the

22 pipeline, which is not uncommon.

23 Q Okay. All right. So they had to shut down the

24 pipeline, and they had to shut down the pine line

25 only because of the delivery schedule; is that

26 correct?

27 A Yes. The injection schedule, actually, not the

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1 delivery.

2 Q Oh, thank you for clarifying that. All right. And

3 so which meant that the pigging operation would

4 simply be delayed, right?

5 A Yes.

6 Q Now, was there anything else going on

7 maintenance-wise on that particular line that

8 you're aware of or remember from having shipments

9 on?

10 A Earlier in the day, there was crews working along

11 the pipeline.

12 Q Okay. When you say crews working along the

13 pipeline, were they clearing right-of-way, or

14 were they working on maintenance of some type like

15 doing -- the technicians calibrating sensors? What

16 was going on?

17 A There was a couple backfilling jobs going on the

18 pipeline --

19 Q Okay.

20 A -- from a previous dig. And there's a couple guys

21 working downstream of Stockbridge doing digs, which

22 had no effect on the pipeline.

23 Q Okay.

24 A And there was a couple guys doing cleaning --

25 clearing and prepping to do jobs upstream, earth

26 or, you know, bush clearing and...

27 Q Okay. And was that clearing and digging work,

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1 nothing was going on in the vicinity of where we
2 would have shut down and had the column separation
3 alarm or had any other imbalance calculations or do
4 we know?

5 A Don't know.

6 Q Okay. All right. Thank you. So as we're talking
7 about that pigging operation and as far as we know
8 everything was going on and we had these previous
9 digs, this was previous digs, because they'd found
10 some anomalies? Is that what I'm understanding?

11 A Yes.

12 Q Through a previous pig run? So they had found some
13 anomalies. Okay. All right. Can you talk to me a
14 little bit about the types of activities that you
15 traditionally contend with? Like, for example, do
16 you answer a lot of phone calls in the day? Is it
17 like the line rings to you and each person in the

18 control room takes a shot at it, or how's that set

19 up? How does that work?

20 A I get calls that are only pertinent to my lines.

21 We have dedicated lines --

22 Q Well, talk to me a little bit -- talk to me -- let

23 me clarify that for you, I apologize. So calls

24 would come in, whether it be, let's say it's on the

25 800 line, does that come into your lead supervisor

26 or does that come directly to console phones that

27 are rotated based on whoever's available to take

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1 the call or how does that work?

2 A All the emergency calls go to the shift leads.

3 Q Okay.

4 A I only deal with my pipelines. I have dedicated

5 telephone lines that the guys use to reach my

6 lines.

7 Q Okay. And when you say the guys use to reach your

8 line, would that be maintenance as well as, say,

9 customers that need some manual valve switching or

10 something?

11 A Just my electrical/mechanical crews or anybody

12 who's working on a right-of-way that I'm

13 controlling.

14 Q Okay. And as we go through this, did you get any

15 emergency calls that day or...

16 A I took no --

17 Q Is that the --

18 A That'd be up to the -- I do not know.

19 Q I'm sorry. I interrupted you. Could you repeat

20 that?

21 A I do not know. I didn't take any calls.

22 Q Okay. All right. So from the dedicated personnel

23 that would be calling you specifically associated

24 with your pipeline segment, was there any specific

25 activity that they would have called you about that

26 stands out in your mind besides the cleaning -- or

27 the pig run operation?

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1 A No.

2 Q Okay. Normally when you're sitting at your
3 console, do you have any specific manual tasks?
4 Like I consider picking up the phone in certain
5 circumstances a manual task. Is there anything
6 else that you're required to do manually?

7 A No.

8 Q Okay. Are you running any calculations
9 independently besides on your over and short system
10 or your imbalance system?

11 A I -- no, I calculate the times, that's...

12 Q Okay. And then in your standard operations on that
13 console, do you -- are there a lot of valving
14 arrangements that you automatically control, or are
15 you also monitoring circumstances where somebody
16 else in the field has control over those valves?

17 A I have control over those valves. If I was talking

18 to an electrician, he would have to be at the valve

19 talking to me.

20 Q Okay. And then the way that that would work is

21 would you tell him you need to open or close that

22 valve, and he would tell you what's happening as he

23 does it?

24 A If he was checking them, like on a DLT check.

25 Q Okay.

26 A But --

27 Q So basically -- oh, I'm sorry. Go ahead.

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1 A But he -- nobody -- I control all the valves, and
2 they have to get permission to move anything.

3 Q Okay. And when he does move something, on your
4 particular screen, is there any of your valves
5 that, say, you have to manually change the status
6 of in order to have the correct position, or are
7 they all automatically changed for you?

8 A They automatically change.

9 Q So the switches --

10 A They automatically change.

11 Q All right. I think that you said, and forgive me
12 for repeating this, but I think you said that in
13 the process of shutting down, other than receiving
14 that alarm, which did appear to clear itself, and
15 the MBS, which I take that five-minute MBS, is that
16 your leak detection system, or is that your over
17 and short system --

18 A Leak detection system.

19 Q -- imbalance?

20 A Leak --

21 Q All right. So that's your leak detection system.

22 So you had a leak detection five-minute alarm, and

23 that alarm is separate -- and I want to clarify

24 that, and it may not be separate -- from the

25 column's separation alarm?

26 A No, they would be the same.

27 Q So those are two same alarms. Okay. So we're just

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1 calling it two different things; is that correct?

2 A The MBS or Material Imbalance System is the
3 computer that analyzes what the pipeline is doing.

4 Q Right. Okay.

5 A What the technician or analyst said to me was he
6 said it was column separation which was triggering
7 the alarm.

8 Q Okay. So basically one was cause and effect. So
9 we're thinking what was said to you was that there
10 was a column separation or, from my viewpoint, I
11 would say slack line condition, that was causing
12 the leak detection alarm, which in turn was a
13 balancing system alarm. Okay.

14 Could you repeat for me, simply because I
15 missed it, as you were saying it, I couldn't hear.

16 As you were shutting down the valves, you mentioned
17 a specific, I think you did something first and

18 then you followed -- you stopped flow into the
19 tanks, I think is what you said. You closed the
20 delivery valve, and then you said something else
21 about the valves, some other line where valves were
22 closed. I don't know if that was the pipeline
23 valves or what specifically you said there, so
24 could you fill me in on that?

25 A Okay. I raised the holding. I closed -- once flow
26 had stopped into the tank, I closed the delivery
27 valve. Then after a few minute -- after a minute,

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1 I closed the tank valve.

2 Q Okay.

3 A Or the manifold valve.

4 Q Okay.

5 A And I closed the upstream sectionalizing valves

6 according to procedures.

7 Q Okay. And when you say you raised the holding at

8 Stockbridge, what does that really translate to,

9 tank level? What are you raising?

10 A I think you would understand if I said I started to

11 close the PCV, the pressure control valve.

12 Q Okay. All right. On alarming, I got a bit

13 confused once again, but that was simply because

14 maybe I'm trying to listen long distance and not

15 catching everything. I heard like an S6, S4, S8.

16 Are those priorities of alarms, or is that like a

17 different type of alarm?

18 A Priorities.

19 Q So that is the priority. All right. So you

20 mentioned that a red was a high priority. What

21 level is that, is it an S1, an S what?

22 A 8.

23 Q An S8. Okay. So then an S4 is less significant?

24 A Yes.

25 Q Is that correct? Okay. And so does that imply

26 that you have eight levels of alarms or priorities

27 of alarms, or is there really only the S6, S4, S8

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1 that you mentioned?

2 A Those are the only ones that we receive, yes.

3 Q Okay. And when I'm sitting at your console and I'm

4 getting ready to open or close valves, do you

5 traditionally send a command and then you receive,

6 after a period of time, that the valve's actually

7 started to travel and then it tells you when it's

8 actually closed? Or tell me what usually happens

9 from your perspective.

10 A I would send a command. I would get an

11 audio-visual alarm saying that the valve is going

12 open, in travel open or in travel closed, depending

13 on the way I'm sending it.

14 Q Correct. Okay.

15 A On the valve display, the colour of that valve

16 would change.

17 Q Okay.

- 18 A As to the direction it is going -- traveling,
19 either open or closed. Green being open, red being
20 closed.
- 21 Q Okay.
- 22 A Once the valve has sequenced, then I would get an
23 alarm stating, an audio-visual alarm stating that
24 it has traveled to the position I asked, and on the
25 valve display, it would also show that valve in the
26 position that I required by the change of colour.
- 27 Q Okay. You briefly mentioned that there were two

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1 different systems comparing their balance
2 (indiscernible) basically, I think, to each other
3 and that they were different and they didn't match,
4 so that's what triggered the alarm. And then we
5 asked why that might happen, and short of the
6 explanation that was given to you, I think by the
7 leak detection person, that the column separation
8 had done it, is there anything else that we ought
9 to know about that particular sequence that struck
10 you as odd? Was there anything that struck you as
11 odd in that whole sequence?

12 A No.

13 MR. JENNER: Karen, can you just rephrase
14 the question, please, starting with the --

15 MS. BUTLER: Oh, sure.

16 Q MS. BUTLER: I think -- I was looking back
17 at some notes that I believe were a follow up to a

18 previous question where we asked to elaborate a
19 little bit on the five-minute imbalance and what it
20 meant to the controller -- or operator, forgive me,
21 and missing -- we made a comment about we might be
22 missing some data or something that was being
23 computed in the computer itself. And then we
24 talked about two different systems not having the
25 same numbers, and so that generated an alarm. And
26 we kind of asked why that might occur, and I didn't
27 really get a good feeling that we had a good

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1 explanation for why, other than we definitely did
2 have some input from someone that the five-minute
3 MBS was the result of a column separation. I
4 thought that that column separation information
5 came from a leak detection specialist. If that's
6 not true, I just need to clarify that for me.

7 A It would come from the MBS analyst.

8 Q Okay. And that is our leak detection system,
9 correct, the MBS?

10 A No.

11 Q Okay.

12 A There's -- it's a model. It's a computing --
13 computer modeling system.

14 Q Okay.

15 A That analyzes thousands and thousands of bits of
16 information.

17 Q Gotcha.

18 A Now, the analyst, I believe, is the one who, at
19 that discrepancy, would go into the model and see
20 what it's telling him.

21 Q Okay. From that standpoint, then, other than what
22 you were told by the analyst, was there anything
23 else in that timeframe where you received the
24 five-minute MBS alarm that struck you as odd?

25 A No.

26 Q All right. Thank you for your patience on letting
27 me rephrase that.

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1 I think there's just a couple more here. You
2 mentioned that you called out, I believe, to an
3 electrician and had them set up a particular
4 station for a pig bypass. Was that a valving
5 station or a pump station? I missed that part.

6 A That was a pump station.

7 Q Okay. And which one was that?

8 A Niles.

9 Q Thank you.

10 A And that was done after the pipeline was shut down.

11 Q Okay. And based on how this would occur, since
12 then the pig was stopped but we're setting up for
13 the pig to run again, right, by bypassing that
14 particular pump station, then is that something
15 that traditionally goes in some type of maintenance
16 system? Do you have to enter that information
17 anywhere?

18 A No. It's not entered. That's pretty much

19 standard. Electricians are there, and the pig

20 trackers go downstream or go to the station and

21 listen for it to go through the pump station.

22 Q Okay. And so basically when we talked about the

23 fact that he would just duck out, in the morning,

24 then, that's when we're first thinking that the

25 line would be back up and the pig would be moving.

26 Was that a correct understanding of that last

27 little bit there?

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1 A Yeah, the electrician was going to come out after
2 the pig was through.

3 Q Okay.

4 A And what I call or we call deisolate the station
5 and actually putting that pump station back into
6 service.

7 Q Okay. Do you have anything in your SCADA system
8 that looks at, say, communication statistics, or is
9 there anything that you can see as a controller
10 that indicates whether points are communicating
11 effectively?

12 A Yes.

13 Q Okay. So explain to me what that is.

14 A We work on a WAN system, wide area network, and if
15 that fails, we get a little telephone or a
16 lightning bolt which means it's going to the
17 backup system which is dial up.

18 Q Okay.

19 A We also get -- the station that is what we would

20 call coming out or losing communications on the

21 left-hand side going to the right starts to turn

22 into a gray box highlighting that line or lines.

23 Q Okay.

24 A And typically after a minute or so, communications

25 are restored through the dial backup.

26 Q Do you have to activate the backup system yourself,

27 or is that automatically triggered?

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1 A Automatically triggered.

2 Q Okay. And on this particular day, on line 6B, did

3 you have any communication outages that you're

4 aware of?

5 A Not in that sector, no.

6 Q Did everything on your console appear to be

7 functioning correctly?

8 A Yes.

9 Q Okay. What about any instrumentation?

10 A Perfect.

11 Q Do you guys keep logs, handwritten notes about your

12 shift?

13 A Can you elaborate?

14 Q Yeah. Well, sometime, you know, controllers will

15 usually have the formal shift change that they've

16 got and they'll take typing of notes for the next

17 person coming on, like I've got a pig operation.

18 The pig's located between here and here. The
19 line's shut between here and here. But a lot of
20 times there's other things that they're noting.
21 Like they might just keep a notebook sheet, maybe
22 it's in your computer, that'll say things like this
23 particular element appears to be sluggish or I had
24 to activate this twice today, unusual, or might
25 think about looking at this particular element, it
26 could be streamlined and more effective. Things
27 like that.

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1 A No. I did have the pig run sheet out, because we
2 have to keep track of when all the trackers call
3 us.

4 Q Okay?

5 A But I have no formal rundown sheet.

6 Q Do you have a formal shift change sheet?

7 A No, not that I'm aware of yet.

8 Q Okay. So basically the information that you
9 exchanged, is that pretty much just based on your
10 memory, and you just do it verbally?

11 A Yes.

12 Q Okay. So I believe that the last part we left with
13 was that we had exchanged shifts, and I think you
14 left about 1730? Is that correct?

15 A Yes.

16 Q And the line was still shut down, and you had no
17 reason to believe that there was anything going on

18 that was unusual?

19 A No.

20 Q Okay. Is there anything that you've been

21 specifically trained on regarding abnormal

22 operating conditions?

23 A Yes.

24 Q Can you talk to me a little bit about that, because

25 you mentioned maybe not on slack lines or what we

26 had previously talked about a little bit, but what

27 are some of those that you have been trained on?

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1 A Well, we do ERT, emergency response training.

2 Q Okay.

3 A And we run simulations.

4 Q Okay. Any specific thing that might come to mind?

5 Like do you run anything around running a pig?

6 A In our simulations, we do station bypasses which

7 are similar to running pigs.

8 Q Okay. For this sequence I don't want to get out of

9 order for you regarding, I think, what maybe our

10 NTSB partner has planned next, so at that point

11 I'll end my part.

12 MR. JENNER: Okay. Well, we'll continue

13 around the room. Do have any follow-up questions.

14 MR. GULSTAD: Do you want me to go next?

15 MR. JENNER: Oh, sure. I'm sorry.

16 QUESTIONS BY MR. GULSTAD:

17 Q MR. GULSTAD: Just a couple of points of

18 clarification. Where was the pig when you started
19 your shift, and where was it at when you ended? Do
20 you know --

21 A I don't know specifically. It had just gone
22 through La Porte. I think the second one had just
23 gone through La Porte hours before I came in.
24 Could have been at 4:00.

25 Q The second one?

26 A The second one.

27 Q Second pig?

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1 A Yes.

2 Q So they were running more than one pig?

3 A Two pigs. Two pigs two hours apart.

4 Q Okay. But they were upstream of Marshall, anyway?

5 A They were way upstream of Marshall. They were way
6 up -- they were upstream of Niles station.

7 Q And Niles is closer to Griffith?

8 A Yes.

9 Q And as far as you know, both pigs were moving well
10 on your shift?

11 A Yes.

12 Q And then they stopped when you shut down?

13 A I got confirmation from the trackers that they
14 had -- the first one had stopped.

15 Q And they were both well upstream of the --

16 A Over an hour upstream of Niles station.

17 Q And then you talked about missing data for two

18 locations from that MBS alarm. Where would -- do

19 you know where the data was missing from?

20 A I have no idea where the data comes from. I don't

21 even really understand the system. I know it has

22 two different -- it looks at two different things,

23 and it has to be within a minuscule balance.

24 Q Okay. And what was your definition of a column

25 separation again? A column is what?

26 A A column is the oil.

27 Q Yeah, okay. But column separation, then, is?

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1 A When you would separate the oil at a high point
2 where you would -- it would actually cause a low
3 pressure.

4 Q Yeah?

5 A The pressure would get too low, because your
6 pressure coming up the hill and your pressure going
7 down become different.

8 Q Oh, okay. And is there a significant elevation
9 change along that pipeline somewhere?

10 A No. No, I don't know. Not significant. Not as
11 significant as some of our pinelines are.

12 Q Okay. So you don't know specifically what would
13 have caused that column separation alarm, then, if
14 there wasn't any significant elevation change?

15 A I would not know, no.

16 Q Now, was the pipeline operating at a normal
17 pressure, a typically normal pressure --

18 A Yes.

19 Q -- during your shift? So it wasn't operating at a
20 reduced pressure or anything. And typically when
21 you run a pig, it's normal flow, normal pressure,
22 correct?

23 A Yes.

24 Q And then as a trainee, from the time you had
25 stepped out of your position previously to the time
26 you came back , had anything really changed in
27 the -- on your control console or anything in the

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1 control room? Had anything changed in terms of
2 instrumentation or procedurally or anything else
3 for that matter?

4 A Procedurally, of course, a few things have changed,
5 making things better. Instrumentation, I don't
6 believe so.

7 Q So it's --

8 A A few things we have to do had changed, operation
9 of units and stuff, a few pieces of machinery since
10 I've been gone were out of service, but that's on a
11 different line, so...

12 Q So as a trainee, were you kind of provided some
13 information to get you back up to speed by
14 supervisors or others before you stepped back into
15 operating the consoles?

16 A Yes.

17 Q And so how did that occur? Was it a period of time

18 before you actually step onto the console or before
19 you resumed your duties? Or how -- I mean what was
20 the sequence there?
21 A A month before I started, I went back onto shift.
22 I was reading procedures, all of them, to make sure
23 what'd changed. I was up in the training room with
24 the trainers getting my familiarity back. I was
25 watching. I'd go down to the control room
26 sometimes and watch the operators operate, and they
27 would give me information as to what has changed.

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1 Q So this occurred over a month period?

2 A Yes.

3 Q And then were you, I mean, did you have to
4 requalify, some OQ, cover tasks, or anything?

5 A I have to requalify everything.

6 Q But you are in that process phase?

7 A I'm in that process.

8 Q So as a trainee with somebody kind of looking over
9 your shoulder, you can do that before you're OQ
10 qualified, then?

11 A Yes.

12 MR. GULSTAD: Okay. Thank you.

13 MR. JENNER: Curt, do you have any
14 questions?

15 MR. GOESON: No questions. Just maybe a
16 clarification.

17 MR. JENNER: By all means.

18 MR. GOESON: If that's possible.

19 MR. JENNER: Absolutely.

20 MR. GOESON: And I think it was with

21 respect to Karen's question. I'm not sure if Dave

22 understand or if -- the question was is the MBS

23 system what we refer to as leak detection. Is that

24 correct, Karen?

25 MS. BUTLER yes.

26 MR. GOESON: And that is what we refer to

27 as part of your leak detection system. I'm not

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1 sure if that's what David had said or not, but I
2 just want to make that clear for -- it's a
3 component of what we refer to as our leak detection
4 system.

5 MR. JENNER: Okay. Thank you.

6 MR. GOESON: Okay. That's all.

7 MR. JENNER: Very good. I'm going to ask
8 some follow-ups. How are you doing? Do you need a
9 break or anything?

10 A I'm fine.

11 MR. JENNER: Great. A few follow-ups.

12 We're not going to hold you too much longer. I
13 appreciate you being here.

14 MS. BUTLER: Could I trouble you all just
15 to speak a little louder? I'm starting to have
16 difficulty hearing.

17 MR. JENNER: Okay. Will do.

18 QUESTIONS BY MR. JENNER:

19 Q MR. JENNER: Just piggybacking on
20 discussion of leak detection system, I'm trying to
21 get my hands around this. MBS is bits of
22 information. It's software. It's the software
23 part of it, if I understand.

24 MR. GOESON: Correct.

25 Q MR. JENNER: This is part of your leak
26 detection system. Does your leak detection system
27 involve people who analyze what's going on in the

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1 system?

2 MR. GOESON: Is this directed for Dave?

3 Q MR. JENNER: Yes. This is for you, Dave.

4 A I would believe yes. There is people that are

5 monitoring that system 24 hours a day, 7 days a

6 week on shift all the time, plus they have a backup

7 of consultants and computer people taking care of

8 it.

9 Q So leak detection is software, hardware, and people

10 all working together?

11 A Yes.

12 Q How are the people involved in -- how do they get

13 notified that they have to do some analysis? Is it

14 through a phone call? Is it through them being

15 alerted through the SCADA system? What makes them

16 jump into action?

17 A I only know our part is I call the shift lead, the

18 shift lead calls or talks to the MBS analyst, who

19 are on shift all the time.

20 Q So it's not a function of them monitoring the SCADA

21 system and --

22 A I don't know how. All I know is our end.

23 Q Okay. Your end is --

24 A I'm sure they're sitting there watching it. I

25 can't say.

26 Q I'm not going to make you answer this question, but

27 you've had time to -- I imagine you've done some

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1 thinking about the events over the last few days
2 and what -- time to reflect on your shift and
3 subsequent shifts in terms of putting the pieces
4 together. When you heard from the analyst about
5 his interp -- his analysis of the alarm, that it
6 was due to column separation, as we're sitting here
7 now, do you think that was the accurate assessment?

8 A At that time?

9 Q Well, let's answer it at that time and what you
10 think now as well.

11 A At that time, yes, I took his word for it.

12 Q Okay. What is your impression now?

13 A Well, obviously now, knowing some of the facts, his
14 analysis may have been correct. I don't know what
15 happened after I left shift. I don't know what's
16 transpired in the last two days through the
17 company.

18 Q Was there any information available on the SCADA,
19 all the information that was available to you to
20 come up with a different analysis of why the alarm
21 occurred, different from a column separation? That
22 was one explanation about why it happened. Was
23 there data available to come up with a different
24 conclusion about what was going on?

25 A No.

26 Q Well, if that is the case that there wasn't data
27 available, then how can an operator come to the

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1 conclusion that it may not be -- that it may be
2 something other than a column separation? We're
3 interested in operators having all available
4 information to make an accurate assessment. If
5 there was a problem at the time, how can an
6 operator gather information to make an accurate
7 assessment?

8 A If the line had been continued to run, then I would
9 have seen it, because there is the data there when
10 you're running. But at the time after shutdown,
11 there's still data there, but do you know if it's
12 correct or not? I mean I looked at it, and
13 everything looked fine. As a line shutdown, it was
14 picture perfect. But had the line continued to
15 run, let's say I was swung even from Stockbridge
16 and I wasn't going to shut down, I would have and
17 SCADA and everyone would have known, because it

18 would have been just too plain not to.

19 Q So if I understand, you'll get more insightful

20 information if the line is running, more

21 information to tell you what's going on on your

22 pipeline?

23 A Yes.

24 Q So if the line is shut down, you're just not

25 getting that flow of information to --

26 A You're still getting the information, but now your

27 pressures don't change, because your line's not

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1 running. So it's like sitting in your car idling.

2 You're still at zero. When you start to drive, now

3 the speedometer moves. When you're not driving,

4 you're not moving, it's at zero. Your engine's

5 still running, but you're not going anywhere. We

6 still get the information, but it may only change a

7 pound or so because of thermal expansion or

8 contraction. So once the line is down, you get the

9 information, but it doesn't change that much.

10 Q Thank you for that explanation. But does that mean

11 that it's almost, as a function of the system, you

12 need the system to be running, you need the line to

13 be running in order to make an assessment of

14 abnormal operations, or can you still make an

15 assessment even when it's shut down? I understand

16 it to be more difficult.

17 A You could make an assessment when the pipeline's

18 shut down. You still have that information if it
19 changed a great deal, but if it only changes a few
20 pounds, now is that because of an incident, or is
21 it because of thermal expansion or contraction?

22 Q And when you talk about changes, changes in flow --

23 A Pressure.

24 Q -- pressure?

25 A Pressure, pressure changes. Sorry.

26 Q Right. But not enough to set off any alarm, or at

27 some point will it set off an alarm, a rate of

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1 change alarm or -- that you may see when the line's
2 running?

3 A You -- I don't -- it may. It may set off an MBS
4 alarm over a longer period of time, because it sees
5 the imbalance.

6 Q From what you know now, is there anything about --
7 this is a question I usually ask at the very end,
8 but it seems appropriate now -- is there anything
9 about the SCADA system that you would recommend
10 changing or improving to help you with -- to help
11 any operator gain valuable information when the
12 line is shut down?

13 A No. I think we probably have one of the best SCADA
14 systems there is.

15 Q So how can an operator -- what can an operator do?
16 If you were in a role of supervising, of being a
17 trainer and you were simulating this situation,

- 18 what can you instruct a trainee to look for given
19 the same circumstances? Like what data point
20 should he be looking at or focussing on?
- 21 A Your discharge pressures on the upstream side, your
22 suction pressures at the next downstream station.
23 If you have any midlines in between, to watch, see
24 if their pressures are changing.
- 25 Q Okay. Let me change pace on you. I have just a
26 few standard questions. You mentioned that your --
27 about your background and health and off duty.

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1 You're back from being in poor health, and how is
2 your health now?

3 A Good.

4 Q Good. Are you on any type of medications,
5 prescription, nonprescription?

6 A Yes.

7 Q Can you let me know what you're taking?

8 A I'm on Volopotral.

9 Q Could you spell that for me?

10 A No.

11 Q Okay. I'll -- phonetics. Volopotral?

12 A Yeah.

13 Q What is that?

14 A It's to help with my lung infection.

15 Q Do you know what type of dosage you're on?

16 A 200 milligrams twice a day.

17 Q Anything else?

18 A ASA, aspirin, 81 milligrams. Synthroid 0.15.

19 0.015? 0.015.

20 Q Per day?

21 A Per day, once a day. Crestor once a day, 10

22 milligrams. That's it.

23 Q Any side effects with these medications?

24 A No.

25 Q Effect your alertness, sleep quality, anything like

26 that?

27 A No.

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1 Q What days, what are your normal -- do you have
2 normal shift days, normal days that you work and
3 off days?

4 A Yes.

5 Q Just let me know those, please.

6 A I normally work -- it would be either -- do you
7 want just around about.

8 Q Right.

9 A I work two day shifts followed by either two or
10 three night shifts or I could work three day shifts
11 followed by two night shifts or two day shifts
12 followed by two night shifts, standard 12-hour
13 rotation. Four days on, five days on, four or five
14 days off.

15 Q Right. What days -- you work Sunday, started
16 Sunday morning. Did you work Saturday, Friday,
17 Thursday as well?

18 A I worked Friday, Saturday, Sunday was my regular
19 scheduled day shifts. Then I was supposed to work
20 Monday night, Tuesday night.

21 MR. JENNER: I think that's my questions
22 for now. We'll go around a second time. Karen do
23 you have any follow-up questions?

24 MS. BUTLER: I do.

25 QUESTIONS BY MS. BUTLER:

26 Q MS. BUTLER: I just want to go back to when
27 you traditionally would leave for the day and

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1 you're just verifying that, say, on a running line
2 or a shutdown line or idle line, what's your
3 traditional process? Can you just step me through
4 that? Like are you checking a historical trending
5 screen or tool? Are you checking a station
6 pressure or one overall display that's got
7 everything on it regarding pressures and flows?
8 Step me through that a bit.

9 A We have a line display.

10 Q Okay.

11 A That has all our suction discharge pressures are --
12 and our set points, discharge and suction set
13 points, our mono throttle or case pressure, and all
14 the units that're running by changing of colours
15 and also our calculated flow. Also tells you if
16 you have any communications or if communications
17 are on WAN line or on the dial backup system.

18 Q Okay.

19 A We also have an MBS display, which is a graphic
20 display, tells you how your flows are. We have a
21 sectionalizing valve display that tells you where
22 your sectionalizing valves are, where your block
23 valves are.

24 Q I'm sorry, what did you call that last display with
25 the valving?

26 A Sectionalizing.

27 Q Okay. Thank you. Okay? Anything else?

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1 A We have our alarm panels up, usually a multitude.

2 We have one that's active. We have one that's

3 historical. We have one that's command.

4 Q Okay.

5 A And that's about it.

6 Q Okay. So since you're operating more than 6B, line

7 6B, would you rotate these types of displays for

8 each one of your systems that -- in a similar way?

9 A They would all be, yes, they'd all be about the

10 same.

11 Q All right. And do you have a trending tool

12 available?

13 A Yes.

14 Q And do you use it often or not?

15 A Trend pressures -- or sorry, to trend densities and

16 stuff of upstream and station densities.

17 Q Okay. Do you typically have one of those running

18 on one of your screens?

19 A Yes.

20 Q Or just as you need it? Okay. Do you have a

21 favorite display or something that you kind of

22 consider your lock solid, this is my root element,

23 and if things don't line up on it, I'm starting to

24 dive into detail?

25 A My line display.

26 Q You know, we asked you some questions about 6B,

27 obviously, and things that were going on, but was

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1 there any other communication outages or activities
2 going on on any other of the lines that you were
3 running on this same console?

4 A No.

5 Q And is there anything unique about this particular
6 line from a controller's standpoint?

7 A No, it's the only one that we do. We control the
8 deliveries at Stockbridge. On the rest of the
9 lines, we actually have a terminal operator control
10 those.

11 Q Okay. All right. I think that pretty much shores
12 up the things that I wanted to ask with one
13 exception, and that was the night before this
14 event, were you on a night shift? We kind of
15 missed that, I think.

16 A The day before, on the Saturday, I was on a day
17 shift.

18 Q Okay.

19 A We never go nights to days.

20 Q Okay. Without time off, you mean, right?

21 A Right. So on the Saturday, I would have started at

22 about the same time.

23 Q Okay.

24 A About -- and left at about the same time.

25 Q All right. Was there anything unusual on Saturday

26 happening?

27 A No.

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1 Q On your console?

2 A No.

3 Q And how did you sleep between Saturday and Sunday?

4 A Pretty darn good.

5 Q Okay. Would you say that you had eight hours?

6 Nine hours of sleep? Four hours of sleep? An

7 estimate.

8 A Eight hours.

9 Q Okay. Is there anything you'd like to tell us that

10 we didn't ask, anything that you feel -- that can

11 go along with how we asked, anything you'd like

12 clarification on or anything you wished we'd ask

13 and didn't, anything you would have preferred we

14 stated differently such that we can take this

15 feedback as well?

16 A No.

17 MS. BUTLER: Think that's all I had.

18 MR. JENNER: Great. Thank you. Rick?

19 QUESTIONS BY MR. GULSTAD:

20 Q MR. GULSTAD: Oh, I just have a couple of

21 questions. As you stepped away from your shift,

22 did you feel like there was anything that would

23 prohibit you from restarting the pipeline, any

24 flags in your mind or anything that -- unusual?

25 A No.

26 Q And then a second question, were you at some point

27 ever drug or alcohol tested?

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1 A Yes.

2 Q And how --

3 A After the fact.

4 Q How many hours after your shift ended?

5 MR. GOESON: Lots.

6 MR. GULSTAD: Lots of hours?

7 MR. GOESON: This morning. So to expand

8 on that, when the event was confirmed, Dave had

9 already gone, been gone, so that's why we initially

10 didn't trigger the policy. It was only after

11 discussion after the fact that we said let's not

12 wish we did, so we did.

13 MS. BUTLER: Could you repeat that? I'm

14 sorry.

15 MR. GOESON: So sorry, sorry, Karen. When

16 the event was confirmed, when we found out about

17 it, David and many of the other 10 had already gone

18 home. The ones that were on shift when it was
19 confirmed hadn't had any involvement, so that led
20 to the decision by us, when I say us, the control
21 centre management team, not to trigger the HR 18
22 policy at that time.

23 It was in the next day, actually Tuesday,
24 yeah, next day, yesterday afternoon that we
25 decided, well, it's better to do it now than not --
26 than to wish we had. And that's why we triggered
27 the DNA testing for all 10. We knew -- we knew the

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1 alcohol testing wouldn't apply but the drug would.

2 MR. GULSTAD: That's all I've got.

3 MR. JENNER: Same.

4 MS. BUTLER: If we get to go back around, I

5 do have one more.

6 MR. JENNER: Well, go ahead, Karen. Oh,

7 sorry.

8 MR. GULSTAD: I'm fine.

9 MR. GOESON: We keep cutting off Rick.

10 MR. GULSTAD: I'm good.

11 MS. BUTLER: No, Rick sent his slope, so

12 I'm not interrupting. I'll wait.

13 MR. GULSTAD: Go ahead, Karen.

14 QUESTIONS BY MS. BUTLER:

15 Q MS. BUTLER: I just wanted to know, when

16 you're typically shut down, what type of pressure

17 would you expect to see on the line? Obviously you

18 still have commodity there. When you are checking
19 your overall display, what type of pressures would
20 you expect to see?

21 A On that line?

22 Q Yeah.

23 A Probably around 50 pounds or so.

24 MS. BUTLER: Okay. Sorry. Rick?

25 MR. GULSTAD: No, I'm done. I'm done.

26 MR. JENNER: Curt, do you have any
27 follow-ups?

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1 MR. GOESON: No.

2 MR. JENNER: Okay. Well, I want to thank

3 you for taking time to talk with us and help us

4 understand the operations in general and specific.

5 If you have any thoughts about making the system

6 safer, you know, if you think of something down the

7 line, we'd appreciate -- we'd welcome your input at

8 any point.

9 So, again, thank you for taking time out and

10 helping us, and we'll conclude this interview.

11 A Thank you for the opportunity.

12 -----

13 WHICH WAS ALL THE EVIDENCE GIVEN TO 3:47 P.M.

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CERTIFICATE OF TRANSCRIPT

I, the undersigned, hereby certify that
the foregoing pages are a true and faithful
transcript of the proceedings taken down by me in
shorthand and transcribed from my shorthand notes
to the best of my skill and ability.

Dated at the City of Edmonton, Province
of Alberta, this 6th day of August, 2010.

Laura Slywka CSR(A), RPR

Court Reporter

A.C.E. Reporting Services Inc.

Phone: (780) 497-4223

UNITED STATES OF AMERICA
NATIONAL TRANSPORTATION SAFETY BOARD

* * * * *

Investigation of:

ENBRIDGE OIL SPILL,
MARSHALL, MICHIGAN

Docket No.: DCA-10-MP-007

* * * * *

Interview of: Dave Scott

Date: July 28th, 2010

CHANGES TO STATEMENT

WITNESS NAME: DAVID SCOTT

DATE OF STATEMENT: _____

| PAGE | LINE | CHANGE | REASON |
|------|-------|---------------------------|----------------|
| 7 | 5 | ENTERPRISE (ENBRIDLE) | WRONG NAME |
| 8 | 14 | DEAN SUCH (DEANSUCH) | WRONG WORDS |
| 11 | 5 | IMBALANCE (BALANCE) | WRONG SPELLING |
| 14 | 10 | JIBING (JIVING) | WRONG WORD |
| 26 | 16/17 | | PART SENTENCE |
| 27 | 24 | DOT (DOT) | WRONG WORD |
| 51 | 13 | MONO | WRONG DELETE |
| 49 | 8 | VOLOPATRAL (VORICONAZOLE) | WRONG SPELLING |
| 23 | 24 | PINE LINE (PIPELINE) | WRONG WORD |
| 29 | 2 | IMBALANCE (BALANCE) | WRONG SPELLING |
| 51 | 14 | THAT'RE (THAT ARE) | WRONG WORD |
| | | | |
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