

UNITED STATES OF AMERICA
NATIONAL TRANSPORTATION SAFETY BOARD

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Investigation of:

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ENBRIDGE OIL SPILL
MARSHALL, MICHIGAN

* Docket No.: DCA-10-MP-007

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Interview of: BRYAN CHRIST

Conference Room
Holiday Inn Express
630 East Chicago Street
Coldwater, Michigan

Friday, July 30, 2010

The above-captioned matter convened, pursuant to notice,
at 10:18 a.m.

BEFORE: KARL GUNTHER
Accident Investigator

APPEARANCES:

KARL GUNTHER, Accident Investigator
National Transportation Safety Board

[REDACTED]
[REDACTED] [REDACTED]
[REDACTED]

JAMES BUNN, General Engineer
BRIAN PIERZINA, General Engineer
U.S. Department of Transportation
Pipeline and Hazardous Materials
Safety Administration

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

JAY A. JOHNSON, Senior Compliance Specialist
Enbridge Energy Company, Inc.

[REDACTED]
[REDACTED] [REDACTED]
[REDACTED]

TOM TIDWELL
U.S. Fish and Wildlife Service

[REDACTED]

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I N T E R V I E W

(10:18 a.m.)

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2
3 MR. GUNTHER: I'm Karl Gunther, National Transportation
4 Safety Board. We're investigating an oil spill that occurred in
5 Marshall, Michigan on July 26, 2010.

INTERVIEW OF BRYAN CHRIST

6
7 BY MR. GUNTHER:

8 Q. Could you please give your name, address, and phone for
9 the record?

10 A. Do you want the home address or just the --

11 Q. Either one.

12 A. Bryan Christ, [REDACTED].

13 That's the home, and then [REDACTED]

14 is the work location.

15 Q. Okay, could you give your job title and company
16 affiliation?

17 A. My job title is the regional health and safety
18 coordinator.

19 Q. Okay, and for?

20 A. For Enbridge Energy.

21 Q. Okay. Can you describe the actions that you took
22 related to the oil spill? Just start from the beginning and go
23 through.

24 A. From the beginning, when I received the initial
25 notification, I left the office, proceeded immediately to the

1 site. Upon arriving at the site, I was receiving locations and
2 areas of concern. And after I was debriefed with information, I
3 started to go to some of the sites that were -- the sites that I
4 knew of that were in question. I started evaluating some of the
5 health and safety concerns that were out there, along with
6 collecting some benzene monitoring or some benzene samples as
7 well.

8 Q. Okay. And how long were you out there?

9 A. I was out at the site upon arrival from 1:00, 2:00
10 sometime in the afternoon. I can't remember exactly, but I know
11 that I didn't leave until after 4:30 in the morning on Monday.

12 Q. On Monday, and how long -- have you been continuing to
13 work since then?

14 A. This is correct, yes.

15 Q. Okay.

16 BY MR. JOHNSON:

17 Q. Are you on days or nights, Bryan? I don't even
18 remember.

19 A. I have been basically overlapping both.

20 Q. Yeah, the core in the day though?

21 A. We do have a -- the core is in the day, absolutely, and
22 a couple of hours into the night shift over, but we have
23 established the crews and times now where we have -- where we're
24 doing --

25 Q. Yeah, so maybe as part of it, you and -- who are on

1 days, and then who's on nights? Because you're the only safety
2 guy, so to speak, we're going to interview, so it might be nice
3 for the record.

4 A. Currently, like I said, days right now currently is
5 myself, Cheryl Urie.

6 Q. And David Lu?

7 A. And David Lu, who is the industrial hygienist. And
8 currently in the evenings, as we stand right now, Lamar Kelly and
9 Randy Wilberg.

10 BY MR. GUNTHER:

11 Q. And so, you would basically take the benzene readings
12 and whatever for each of the people? Is that --

13 A. My first day that we were there, myself and David Lu
14 were collecting air samples at some of the sites and also in the
15 community as well.

16 Q. And do you also collect the samples for the individuals?

17 A. David Lu collects the samples for the individuals, and
18 I've also been assisting the -- we have an industrial hygienist,
19 an outside agency, who has been collecting as well. And we've
20 been spot checking accordingly with our equipment too.

21 Q. And have any of your people been overexposed or --

22 A. To the best of your knowledge of my knowledge, no.

23 Q. Okay.

24 MR. JOHNSON: In a little bit, Karl, that, if you will,
25 the health side of -- health and safety is more towards David Lu

1 and the consultant, and Bryan is more on the safety side of
2 things.

3 MR. GUNTHER: Okay, yeah. I'm just making sure your
4 people were safe. That's all.

5 MR. JOHNSON: Well, and we can get David Lu in here.
6 Dr. Lu is our industrial hygienist who is heading that up, if
7 that's something you'd like.

8 MR. GUNTHER: Okay, well, at this point, I don't -- I'm
9 not sure we need it.

10 BY MR. GUNTHER:

11 Q. What formal training do you have?

12 A. I have a bachelor's degree in occupational health and
13 safety, along with a master's occupational safety and health as
14 well. And over 17 years plus experience in environmental health
15 and safety.

16 Q. Okay. Do you have any -- or did Enbridge give you any
17 classes, or you were --

18 A. Yes. Yes, they did.

19 Q. And what would they be?

20 A. Refreshers, things such as HAZWOPER classes that we
21 conduct, and we also developed some training for state training,
22 CPR, first-aid, blood borne pathogens, basically a lot of the
23 training that's offered under the OSHA regulations.

24 Q. And do you guys handle the PPE and make sure it's all
25 out?

1 A. Yes.

2 Q. Okay.

3 A. For our employees, yes.

4 Q. Right. Are you qualified under OQ, the companies that
5 your company's OQ program?

6 MR. JOHNSON: The tests Bryan does are not OQ.

7 BY MR. GUNTHER:

8 Q. I just want to get that on the record. And again, how
9 many years experience? Repeat that. How many years experience do
10 you have?

11 A. Over 17.

12 BY MR. JOHNSON:

13 Q. How many with Enbridge?

14 A. Going on six.

15 BY MR. GUNTHER:

16 Q. Okay. What did you observe when you arrived on the
17 site?

18 A. What I observed was basically at one of the locations, I
19 did observe some oil out at the initial site into little, like a
20 little creek area on the first day that I was there. Other than
21 that, I continued to, you know, collect the benzene samples or
22 with David Lu as far as, you know, in the community as well.

23 Q. And again, what actions did you take?

24 A. I'm sorry?

25 Q. What actions did you take?

1 A. As far as collecting the samples, or just anything?

2 Q. Well, yeah, yeah.

3 A. We went -- basically we were -- there were certain
4 locations that the actions they wanted us to collect samples in.

5 BY MR. JOHNSON:

6 Q. Who is they?

7 A. The EPA.

8 Q. The EPA, okay. So, there'd be a lot of that. It was
9 under their direction?

10 A. Yes.

11 BY MR. GUNTHER:

12 Q. And, again, are we talking federal or state or both?

13 A. I think they were local. I'm not sure.

14 MR. JOHNSON: If you don't know --

15 BY MR. GUNTHER:

16 Q. You don't know.

17 A. It was EPA. I just know that.

18 Q. Okay, all right.

19 BY MR. PIERZINA:

20 Q. All right. I'm sure I can think of a few questions to
21 ask of Bryan. I'm Brian Pierzina with PHMSA. If we back up to
22 the, you know, initial response, and I apologize for stepping in
23 just a little bit late, but so your responsibilities were
24 monitoring the atmosphere for health hazards to the public and
25 Enbridge employees or both?

1 A. At the time that we arrived, yes, I was assisting David
2 Lu doing the monitoring for the initial area outside.

3 BY MR. JOHNSON:

4 Q. And maybe from my point, Bryan, because I also had come
5 in a little late, so basically, you and David left together from
6 the Griffith office?

7 A. That's correct, yes.

8 Q. And then when the time you got here, they pretty much
9 had lined up work for you? They said this is what we need you to
10 do?

11 A. That's correct.

12 Q. And was some EPA official in at that point? That was
13 your priority?

14 A. Yes.

15 BY MR. PIERZINA:

16 Q. Okay. So, at some point, and I'm thinking early on in
17 the response to the accident, there's a need to monitor the
18 atmosphere for the employees that are working, you know, around
19 the oil as well as public exposure. So, I don't know if you can
20 do -- if one person can do both at the same time, or --

21 BY MR. JOHNSON:

22 Q. Maybe Bryan can explain, you know, our employees have
23 their personal monitors and they also have the three to the five
24 heads.

25 A. Four.

1 Q. Four, okay. So, maybe explain what our employees have
2 automatically, which a lot of it is probably, Bryan, probably had
3 to do more of the public. So, maybe if you could explain that,
4 Bryan?

5 A. Yes, the actual employees, like I said, our employees
6 had actual gas monitors on, okay, when they were there. We were
7 also, too, kind of just spot checking where they were at with the
8 benzene monitors at that point in time too. We would capture
9 those, which after we would collect those samples, then that's
10 when we would go on to other areas as well too.

11 BY MR. PIERZINA:

12 Q. Okay. And when you're doing benzene sampling, are you
13 also doing LEL monitoring?

14 A. The benzene is specifically for benzene. We have the
15 monitors that would detect LEL on us as well.

16 Q. So, you're wearing a gas level monitor?

17 A. A gas monitor.

18 Q. And detecting benzene levels with your --

19 A. Which was separate, yes, separate readings.

20 Q. Okay. And what level of benzene, you know, is an
21 actionable level that you've got to, you know --

22 A. .5 is when we would have to put on the respirators and
23 mask.

24 Q. .5?

25 A. PPMs, parts per millions.

1 Q. Parts per million, okay. And at that -- so, if you're
2 monitoring, you know, how -- where the release has, you know,
3 where the release has gotten to, you know, in neighborhoods or
4 whatever at .5 parts per million, what do you do?

5 A. We were reporting those back to the EPA people.

6 Q. Okay.

7 MR. JOHNSON: And I think even you were in there for
8 some of that, Brian, where we'd get together with David Lu, and
9 Bryan would come in, and the EPA was there, and our instant
10 commanders too.

11 BY MR. PIERZINA:

12 Q. Yep, yep, and I have that in my notes. But, you know, I
13 was just writing down notes. I think, and I'll just say it, I
14 think what I heard initially upon arrival Monday night was that 90
15 parts per billion was the actionable level at which you'd start to
16 consider evacuating members of the public that would be exposed to
17 that environment. Is that correct?

18 MR. JOHNSON: You know, if you don't know --

19 MR. CHRIST: I can't really recall. I know that was not
20 our direction from --

21 BY MR. PIERZINA:

22 Q. Okay, right, and you're right, that wasn't -- that
23 certainly wasn't you that said that. And I think I know who. But
24 all right, so the level that you are working off of is .5 parts
25 per million, which would be 500 PPM?

1 A. Yeah.

2 Q. Okay, and that's your threshold initially. Did that
3 threshold change over the duration of your response involvement?

4 A. You mean the numbers?

5 Q. Yes.

6 A. Yes, throughout, yes, the numbers were fluctuating
7 throughout the times that we were collecting them throughout.

8 BY MR. JOHNSON:

9 Q. But did the threshold change?

10 A. Oh, no.

11 Q. That's kind of what I heard you say is --

12 BY MR. PIERZINA:

13 Q. Yep, yep. No, because, you know, I think, and we're
14 getting input from public health agencies and such about, you
15 know, what levels are a concern to the, you know, to the public
16 and long-term exposures and such. And those numbers changed, and
17 I know that wasn't part of your, you know -- I was thinking that
18 possibly the direction would be coming to you that, you know, the
19 numbers at which you have to take certain actions are changing.

20 BY MR. JOHNSON:

21 Q. If I recall right, we had the -- I forget the lady's
22 with the initials on her hat, the lady that --

23 A. CET, I think.

24 Q. Yeah, CTECH at one point, because she was a
25 healthologist, and then they had the health department bring in a

1 healthologist, and they were all three to meet the third person,
2 being Dr. Lu, because there was discrepancies with what was
3 acceptable levels. And I'm -- I'll stick with you here, Bryan. I
4 wouldn't even begin to know what that was, but we can certainly
5 get that.

6 BY MR. GUNTHER:

7 Q. Well, let me ask a question. I understand that there
8 are 50 people who were evacuated. Did you have any part in the
9 decision of which members of the public would be evacuated?

10 A. No.

11 BY MR. PIERZINA:

12 Q. Okay, Bryan, and I'm sorry, I might have misinterpreted,
13 you know, what your role was in the response as far as -- because
14 that's kind of the direction of my questioning was -- you know,
15 exposure to the public, especially CNS. The employees had their
16 monitors on them, so that's kind of switching over to the public
17 health aspects, and, you know, who could possibly be exposed to,
18 you know, excessive levels or dangerous levels of benzene and need
19 to be evacuated. But are we saying that that wasn't your role in
20 the response?

21 A. Of determining evacuations, things like that?

22 Q. Well, measuring benzene levels and taking action.

23 MR. JOHNSON: He was with -- he certainly, you know, I
24 don't want to speak for him, but --

25 BY MR. JOHNSON:

1 Q. you were with David Lu, and if those came back, you
2 would have been a part of that?

3 A. Yes.

4 Q. Okay.

5 A. Yes, I was assisting David on that.

6 BY MR. PIERZINA:

7 Q. Okay, so, let's just say we're going to a point along
8 the river. Let's say we're in the area of Swan Creek Drive and
9 we're measuring benzene levels, you know, behind the houses by the
10 river and identify a benzene level that's beyond -- you know,
11 higher than the minimum or the maximum, I guess, that's allowed.
12 Who would say we need to evacuate this household or these people?

13 A. That, I'll be honest, I don't know. We report those,
14 and then I would let David speak to the officials on that.

15 Q. Okay. So, you're getting data and reporting that back
16 to who?

17 A. David was -- David and I was reporting it back to the --
18 because we had an EPA person taking results with us as well.

19 Q. That's correct. You had a representative from the EPA.

20 A. Yes, a shadow.

21 Q. Whether it was an EPA employee or their contractor.

22 A. Or contractor.

23 Q. You had them, and then basically, that information was
24 being gathered together?

25 A. Uh-huh.

1 MR. JOHNSON: Who's that, the health officer --

2 MR. CHRIST: The county also -- I mean, the command
3 center, I think, initially there was the county health officer was
4 receiving that information as well, and I can try to determine,
5 you know, whether or not actions need to be made in a general
6 sense. And just for the record, I guess, I think the Michigan
7 Department of Community Health also arrived and had input into the
8 entire process as well.

9 BY MR. PIERZINA:

10 Q. It sounds like, Bryan, from your involvement and aspect
11 that you're basically out there gathering information with your
12 industrial hygienist?

13 A. And Dr. Lu.

14 Q. And that information was being evaluated jointly with
15 the EPA and their contractor and local agencies and decisions were
16 being made, which were beyond your responsibility, right?

17 A. Yes.

18 BY MR. JOHNSON:

19 Q. Maybe to get to your question, I know early on, and I
20 think you were a part of this, and I know Shelly was, the
21 monitoring was going on and it did not require through these
22 agencies any mandatory evacuations, yet, we had -- we were
23 allowing people that they chose to to leave the site, and there's
24 a record of those.

25 A. Right.

1 Q. Now, yesterday, I understand, and Bryan, maybe you can
2 bring me up to speed on this or us up to speed on that, there were
3 50 people voluntarily evacuated.

4 MR. GUNTHER: Right.

5 BY MR. JOHNSON:

6 Q. And it was -- so, it didn't meet the limits of
7 evacuation, but from a comfort or -- do you know about that?

8 A. That was being discussed in the meeting, and I was
9 not --

10 Q. You're not a part of that?

11 A. No. That was in the one meeting I know they were --

12 Q. Am I correct and, Brian, I think you were there then
13 too, they called it a voluntary evacuation as opposed to mandatory
14 by the limits they were taking?

15 A. That I do recall.

16 Q. Okay.

17 MR. GUNTHER: That was one of my follow-ups would be how
18 many were voluntary, and how many were mandatory. So, you
19 answered that.

20 MR. JOHNSON: Okay, and that's why I wanted to get that
21 on record for you, Karl.

22 MR. PIERZINA: And it's a little tough with two Brians
23 here. Brian Pierzina was also in attendance at those meetings and
24 aware that any household that, you know, was uncomfortable with
25 the odor level or, you know, thoughts of their concerns were

1 provided the opportunity to, you know, get alternate lodging and
2 be reimbursed.

3 MR. GUNTHER: That's the normal anyway, but I was just
4 curious if there were any mandatory. So, that's an answer to
5 that.

6 MR. PIERZINA:

7 Q. There were three. It was reported, I think, initially
8 reported that there were three households evacuated, right?

9 A. I know there were some, but I don't know the number.

10 Q. Okay, and was that part of -- were you involved in that
11 process, either with the data that resulted in that, you know?
12 Let's assume that there were three evacuations that were made.
13 Was that as a result of data that you collected?

14 A. No.

15 Q. Or data that was collected while you were in the
16 presence of?

17 A. They were -- not when I was -- not when I was present.
18 I don't recall that. Yes.

19 Q. Were your responsibilities strictly limited to air
20 sampling?

21 A. No.

22 Q. Okay, what?

23 A. I was also actually too involved with all the sites,
24 looking at PPE issues, looking at making sure people were
25 following -- you know, had the PB issues too as well. I was also

1 in the process of working on developing at that time a site safety
2 plan, you know, starting that as well too, because it was -- there
3 was limited EHNS people at that time. And that was one of the
4 requests that I had started to partially work with.

5 BY MR. JOHNSON:

6 Q. Would you have involvement with establishing the hot
7 zone or the -- not from a drawing stand point from a -- I think
8 they said --

9 A. Yes, we did at the leak site, David and I did. That was
10 the one hot zone that we established out there was when -- was a
11 perimeter area.

12 Q. And how did you do that?

13 A. We did that with the actual air monitoring, using our
14 detector tubes which employs within a certain amount. It would
15 have to, you know, if they entered past this, I think it's a 50
16 feet perimeter, they have to have their mask on.

17 BY MR. PIERZINA:

18 Q. And thanks, because that's important both, you know, the
19 personal protective equipment, you know, for anybody working on
20 the site or anybody, you know, present on site. Did the -- were
21 you involved in establishing a hot zone along the river, or are
22 you aware of one being developed?

23 A. I have not been involved, you know, really developing
24 the hot zones along the river, but I know -- I want to say I think
25 they were working on one. I mean, as far as -- at this point the

1 monitoring that I have collected in some areas on the river that
2 we had talked about, they were low.

3 Q. Okay, great. That helps, too. Would the site safety
4 plan that you were preparing be specific to certain locations,
5 like, for instance, by division or by a collection site, you know,
6 where oil is being collected?

7 A. The big one that I was working on was addressing the big
8 picture to start with, and it was going to be at that point in
9 time updated as we were going on, which was updated by other
10 individuals when it was done.

11 Q. Okay.

12 A. And there is -- they were also, too, working on
13 individual books for individual plans for each site, as far as
14 site specific safety plans.

15 Q. All right. So it starts out, if I'm correct, and
16 correct me if I'm wrong, you know essentially, no one can enter
17 beyond such a point unless they have a certain level of personal
18 protective equipment, and then that gets refined into specific
19 locations along the response area, I guess?

20 A. That is correct. And when as additional monitoring
21 would be taking place, then, for example, respiratory protection
22 could either increase or decrease. In other words, it would
23 either move back or forward on, as you can get closer without the
24 respirator and without depending upon what the air monitoring
25 would determine. And I know that David was capturing long-term

1 monitors as well to get more of an actual time-weighted average
2 too as well.

3 BY MR. JOHNSON:

4 Q. Did they do any -- or did David or yourself do any of
5 these discs that --

6 A. Yes, not on the first day though.

7 Q. Okay, but since then, have you -- can you give a little
8 explanation of that? Maybe not?

9 A. Yes, David has -- we have had an outside industrial
10 hygiene firm that has come out. And, as a matter of fact, I'd say
11 -- what is today? Is today Thursday?

12 Q. It's Friday.

13 A. Friday. On Wednesday, I want to say, started -- Tuesday
14 or Wednesday started capturing the samples. As a matter of fact,
15 they would use badges that would collect, I want to say, maybe
16 total VOCs and that was H₂S, and then there were also personal
17 stationary monitors around the worksite specifically capturing
18 benzene and other VOCs as well too. But they were stationed --
19 there were monitors on employees as well.

20 BY MR. PIERZINA:

21 Q. All right, so that's -- so that's employee safety
22 related information that's being collected and evaluated?

23 A. Correct, it's being sent off to a lab with the results
24 being sent back.

25 Q. Were there similar activities taking place that would be

1 applicable to public safety?

2 A. In other words? I'm sorry?

3 BY MR. JOHNSON:

4 Q. Did they set anything up similar to that, say at the
5 edge of a house?

6 A. Oh, okay.

7 MR. JOHNSON: Is that what you're referring to?

8 MR. PIERZINA: Yep.

9 MR. CHRIST: Okay, we did not -- we were just capturing
10 the hand -- we were just collecting the samples along, but I think
11 there was a plan in place to do that along certain houses by
12 another firm, CTECH maybe.

13 BY MR. PIERZINA:

14 Q. Okay, and not under the direction of Enbridge,
15 necessarily?

16 MR. JOHNSON: Except CTECH is working for Enbridge.

17 MR. CHRIST: Okay.

18 MR. PIERZINA: Oh, I thought they were working for the
19 EPA?

20 MR. JOHNSON: No, they're working for Enbridge.

21 MR. PIERZINA: Okay, good enough.

22 BY MR. JOHNSON:

23 Q. Just -- I'll try to narrow it down to I'll say the first
24 two days.

25 A. Okay.

1 Q. So, we'll say Monday and Tuesday, and I know they run
2 together. Holy smokes. Was there any safety related incidents in
3 those two days?

4 A. From a safety standpoint, no.

5 Q. And that kind of -- that was my assumption that, you
6 know, no reporting had done, and that's pretty impressive in the
7 first two days.

8 MR. BUNN: This is Jim Bunn from PHMSA Central Region.
9 Let me clarify a little bit on the evacuations. They were
10 voluntary, but the Calhoun County Health Department has identified
11 a certain area of houses that they have strongly recommended
12 people evacuate. I mean, it's 30 to 50 houses. They told us that
13 last night in their briefing.

14 MR. PIERZINA: Okay.

15 MR. BUNN: So, that's the status on evacuations.

16 MR. JOHNSON: So, it didn't meet the limits, but
17 recommendations of the county are --

18 MR. BUNN: Strongly recommended.

19 MR. JOHNSON: Strongly recommended, and, you know,
20 that's fair. And it was completed?

21 MR. BUNN: They've been to all the houses. Certain
22 people are not leaving.

23 MR. JOHNSON: I was going to say, and some people -- I
24 remember that update. Certain people would not.

25 MR. BUNN: Yeah.

1 MR. JOHNSON: So, I guess that's where they get into the
2 voluntary as opposed to mandatory. All right, thanks for that
3 update, Jim. I did not know that.

4 MR. PIERZINA: I can't think of anything else right now,
5 Bryan.

6 MR. GUNTHER: Yeah, does anybody have any other
7 questions?

8 MR. PIERZINA: Thank you, Bryan.

9 (Whereupon, at 10:46 a.m., the interview was concluded.)

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CERTIFICATE

This is to certify that the attached proceeding before the
NATIONAL TRANSPORTATION SAFETY BOARD

IN THE MATTER OF: ENBRIDGE OIL SPILL
 MARSHALL MICHIGAN
 Interview of: Bryan Christ

DOCKET NUMBER: DCA-10-MP-007

PLACE: Coldwater, Michigan

DATE: July 30, 2010

was held according to the record, and that this is the original,
complete, true and accurate transcript which has been compared to
the recording accomplished at the hearing.

Amy Shankleton-Novess
Certified Electronic Reporter

Debbie Mizell
Transcriber