



SURVIVAL FACTORS ATTACHMENT

Federal EPA and Private Contractor

Interview Transcripts

Teutopolis, IL

HWY23MH017

(35 pages)

UNITED STATES OF AMERICA

NATIONAL TRANSPORTATION SAFETY BOARD

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Investigation of: *

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FATAL CARGO TANK COMBINATION VEHICLE *

CRASH & SUBSEQUENT RELEASE OF * Accident No.: HWY23MR017

ANHYDROUS AMMONIA NEAR TEUTOPOLIS, *

ILLINOIS ON SEPTEMBER 29, 2023 *

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* * * * *

Interview of: ADAM VRABEC, Federal On-Scene Coordinator
U.S. Environmental Protection Agency (EPA)

via telephone

Thursday,
November 17, 2023

APPEARANCES:

RONALD KAMINSKI, Survival Factors Investigator
National Transportation Safety Board

BOB CLATTERBUCK, Branch Chief
Hazmat Investigations Division
National Transportation Safety Board

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I N T E R V I E W

1
2 MR. KAMINSKI: We're going to be discussing the September
3 29th hazmat and crash that occurred outside Teutopolis, Illinois.
4 And, my name is Ronald Kaminski. I'm with the National
5 Transportation Safety Board.

6 And first let me ask you, Mr. Vrabec, do you have any problem
7 with us recording our conversation today?

8 MR. VRABEC: No, according to your email, this is not a
9 deposition, correct? It's just a statement.

10 MR. KAMINSKI: That is correct.

11 MR. VRABEC: Okay.

12 MR. KAMINSKI: So, again, my name is Ronald Kaminski. It's
13 spelled K-a-m-i-n-s-k-i. I'm a survival factors investigator.

14 Bob, if you could give your name and spell it, and the same
15 with you, Mr. Vrabec.

16 MR. CLATTLERBUCK: Yeah. Robert Clatterbuck. Last name is
17 spelled C-l-a-t-t-e-r-b-u-c-k. I'm the Branch Chief for the
18 Hazmat Investigations Division.

19 MR. VRABEC: And my name is Adam Vrabec, last name V as in
20 Victor, r-a-b as in boy, e-c. I'm with the U.S. EPA as a federal
21 on-scene coordinator.

INTERVIEW OF ADAM VRABEC

22 BY MR. KAMINSKI:

23 Q. Okay. So why don't we just start with how you all got --
24 well, I know why you got involved but how you got involved and I
25

1 guess what was your role in the response?

2 A. Yeah. So I got a call from our duty officer at the time,
3 that Saturday morning. I forgot what time but some, you know,
4 around 4:45, 5 o'clock in the morning stating that there was an
5 incident involving an anhydrous ammonia tanker in Teutopolis,
6 Illinois, and that Illinois EPA and the on-scene or the IC was
7 requesting U.S. federal assistance for the response.

8 Q. Okay. And did you -- were you on the phone? You went to the
9 scene I believe, correct?

10 A. Yeah. So once the duty officer, he dispatched or deployed
11 me, he said, you know, you need to get out there. So I, you know,
12 got off the phone with him, made some phone calls and then went to
13 the office, grabbed the GOV and then headed up to Teutopolis,
14 Illinois that Saturday morning. I believe I arrived -- like I
15 said, estimated time around 7:45, 0800 hours that Saturday
16 morning.

17 Q. Okay.

18 A. And met with, met with personnel on scene at the Teutopolis
19 High School where incident command was staged and set up.

20 Q. Okay. And what type of assistance did you guys give?

21 A. So, we were giving advice to, you know, first I asked the
22 incident commander how, you know, he was in control the scene. So
23 can we provide any assistance for air monitoring or any other
24 assistance he needed, you know, mainly air monitoring or any other
25 assistance he needed, you know, mainly air monitoring. He stated,

1 yes, he could possibly use some for, you know, clearing -- after
2 the incident was over, clearing houses, if people had questions or
3 had smells in their homes after evacuation was lifted. So I
4 deployed or got on the phone and started mobilizing our START
5 contractors that do our technical assistance to bring air
6 monitoring, you know, for ammonia. And --

7 Q. Okay. And --

8 A. Go ahead. I'm sorry.

9 Q. No, go ahead.

10 A. And then also the -- our duty officer was in contact with
11 some folks, you know, some specialists dealing with anhydrous
12 ammonia and then they were able to provide some information on
13 some high hazard teams that do -- deal with these types of
14 incidents. So, in the morning, when the PRP, the owner of the
15 company, he showed back up onsite. I spoke with him, you know,
16 briefly when he showed back up and said we have, you know, here's
17 a high haz team that deals specifically with this material and the
18 incidents. They're out of Indiana. I would recommend highly
19 giving them a call and getting a contract with them to, you know,
20 start mobilizing to -- towards the scene to, you know, deal with
21 this tanker that was still in the ditch line. So he -- I gave him
22 that -- the recommendation of that company.

23 Q. RMS.

24 A. Yes, correct.

25 Q. Okay.

1 A. And then he said he would get on the phone and, you know,
2 talk with them about mobilizing them to the scene to handle -- to
3 start to handle the, you know, best options or to deal with the
4 tanker that was still in the ditch line.

5 Q. Okay. Now, was the EPA consulted regarding the mitigation of
6 the anhydrous? And if so, what advice was given?

7 A. No. At that point, no, we weren't. We were just essentially
8 supporting the incident command. And then like I said, we were --
9 we recommended that, you know, to the PRP to contact this high haz
10 team which he did, and then they said that they were I believe,
11 you know, 3 hours, 3 1/2 hours out from the scene, and that they
12 would be mobilizing to the scene to, you know, evaluate and assess
13 and then see what type of mitigation efforts once they got on
14 scene. So in the meantime, we were just, U.S. EPA, were in a hold
15 pattern and bringing our START contractor in for additional air
16 monitor resources.

17 Q. Okay. So from the time I guess you got the call early in the
18 morning and then when you got out there, was there -- were you
19 talking back and forth with the incident commander at that time or
20 just --

21 A. Yes, yes. So we kind of rolled into the incident command,
22 you know. They were speaking with other agencies on scene, you
23 know, with the Illinois Emergency Management. They had a rep out
24 there, IEMA --

25 Q. Right.

1 A. -- they're called in Illinois.

2 Q. Yes.

3 A. So I made contact with him, you know, we spoke about, you
4 know, just the incident, also consulting, talking with the IC. At
5 the time, too, when I showed up, I believe they were in the
6 process of going down range and doing body recovery. So that was
7 kind of ongoing, but we did not have any role as U.S. EPA in the
8 actual body recovery.

9 Q. Okay. So was there ever any discussion regarding using water
10 to help mitigate the situation?

11 A. Not that I'm aware of. Again, like I said, they were -- the
12 hazmat teams, the county hazmat teams from the surrounding area
13 were going down and doing readings on the, on the tanker. So they
14 were getting the readings, you know, coming back, back to command.
15 And then again like I said, we were kind of in a holding pattern
16 until that high haz team got down actually onsite and was able to
17 go down range and assess the tanker.

18 Q. Okay.

19 A. And also Illinois EPA sent their -- they had one on-scene
20 coordinator, state on-scene coordinator arrive, and then a little
21 later on, they had a second state on-scene coordinator arrive
22 there also.

23 MR. KAMINSKI: Okay. Bob, do you have any for Mr. Vrabec?

24 BY MR. CLATTERBUCK:

25 Q. I think the only thing would be is the EPA going to be

1 involved with dealing with the soil and, you know, anything as far
2 as the home contamination, land contamination? Are you guys going
3 to be involved with any of that?

4 A. Right now we're just kind of in coordination but once the
5 threat was removed, later on that night, once the tanker was
6 offloaded of the product and deemed upright, we did some -- like I
7 said, we cleared the town, the evacuation zone with the fire
8 department representative going through the evacuation zone doing
9 air monitoring in the, you know, just outside ambient air
10 monitoring with our START contractor getting those readings and
11 forwarding those back to the incident commander. And also we were
12 requested by the Teutopolis School superintendent to do air
13 monitor reading in the school, so which we did provide, go through
14 the school and get readings and provide that information back to
15 incident command. And also we were in coordination with Illinois
16 Department of Public Health with their representative, you know,
17 giving him that information on the readings also.

18 But once that was done, late Saturday night, I would say
19 around 10:30, when I spoke with, you know, the incident commander,
20 we were, you know, waiting on, once they lifted the evacuation
21 order, people coming back into their homes, if they were smelling
22 anything or had concerns, we would, you know, deploy our START
23 teams to go in and do some air monitoring for ammonia but we never
24 received that call. So after that evening, essentially I
25 transferred the scene or long-term cleanup as you call it, to

1 Illinois EPA and they are currently working with the PRP for all
2 -- the oversight of all the soil removal and everything in that
3 actual area where the tanker, you know, release -- wrecked and
4 released. So they -- but they have oversight over the long-term
5 cleanup of the soil.

6 Q. Okay. Do you guys get involved? I mean do they forward any
7 information to you on that or is it just something that's publicly
8 available?

9 A. No. I mean we had a call with Illinois Department of Public
10 Health, their rep. there was some question about the homeowner I
11 would say. So the residents in front or near where the tanker
12 went over, you know, unfortunately the folks there as you know
13 passed away in the incident, but it's -- they were I believe
14 renting from an actual person who owns the home.

15 Q. Yes.

16 A. So that person that was renting the home or the homeowner
17 that was renting had some, you know, he had some concerns about
18 going in there, you know. Is it clear or safe? So we had some
19 discussion on that and, you know, the main discussion we had was
20 that, you know, they're still cleaning, actively removing soil. I
21 don't know if they're done. I'm sorry. I haven't followed up
22 because like I said that the Illinois EPA lead on that. So, you
23 know, what we discussed, too, was that we weren't sure if the I
24 guess homeowner as you call it had even spoke with the PRP and the
25 insurance company about, you know, next steps for what happens

1 when, you know, with the house, if it's safe or what, you know.

2 Q. Yeah.

3 A. We have not been involved with that portion. You know, we
4 just had some discussion, you know, with Illinois Department of
5 Public Health. So -- and then like I said, that was -- now IEPA
6 is doing the long-term oversight of all the removal from the
7 impacted areas in the soil, ditch line, you know, residences and
8 where they started, I believe is what they told me, is that
9 there's an Ameren, I believe it's a company. It's kind of like
10 the gas and electric company --

11 Q. Yeah.

12 A. -- in the area. They started near there. They had like a
13 transfer station, that they started there and worked I guess it
14 would be back to the east but there was a lot of work being done
15 there because of, you know, how contaminated the soil was and they
16 had a lot of piping and fiber optic and other stuff. So it was a
17 tedious -- it was going to be a tedious process. But like I said,
18 that was all being done though -- with oversight of the Illinois
19 EPA.

20 MR. KAMINSKI: Now, are you guys going to generate --

21 MR. CLATTERBUCK: That's all --

22 MR. KAMINSKI: I'm sorry. Go ahead, Bob.

23 MR. CLATTERBUCK: I was going to say, that's all I've got.

24 MR. KAMINSKI: Okay.

25 MR. CLATTERBUCK: Sorry.

1 BY MR. KAMINSKI:

2 Q. I was going to say, are you guys going to generate --
3 yourself going to generate any kind of report regarding this
4 incident?

5 A. So we generate what we call a POLREP and put it out. I just
6 -- we did a -- I generated an initial and final POLREP. So once
7 we got back on -- I got back in on Sunday, we generated one. I
8 provided that to Bob, right -- correct? The POLREP, did I send
9 that do you, Bob?

10 MR. CLATTERBUCK: Yeah, I think you did actually. Yeah.

11 MR. KAMINSKI: Okay. Thanks.

12 MR. VRABEC: Let me just make sure. That just kind of gives
13 what our roles and responsibilities were during the incident and
14 then some of the air monitoring results and what we were tasked,
15 you know, what I tasked our START contractor with.

16 MR. KAMINSKI: Okay.

17 MR. VRABEC: And, Ronald, I can -- do you go by Ronald or
18 Ron? I'm sorry.

19 MR. KAMINSKI: Either one is fine.

20 MR. VRABEC: I mean I can forward it onto you but I did
21 forward it onto Bob, I think Wednesday after the incident
22 occurred, sometime that week, but I can forward it to both of you
23 again if need be.

24 MR. CLATTERBUCK: I did send it to Ron. So, yeah, you should
25 have it, Ron. I'll resend it just so it's on the top of your

1 email.

2 MR. KAMINSKI: It's kind of a crazy time. We're getting lots
3 of emails. So, yeah.

4 MR. CLATTERBUCK: I know. So, yeah. I'll send it back to
5 you again.

6 MR. KAMINSKI: Okay. Okay. Well, I don't think we'll have
7 any follow up, but if we do, any problem giving you a call back or
8 trying to set something else up?

9 MR. VRABEC: No, that's fine. Like I said, I'm deploying
10 back to East Palestine next Sunday for -- until the 11th, but
11 hopefully it'll be a little less hectic time, but --

12 MR. KAMINSKI: Sure.

13 MR. VRABEC: -- I can't -- but, yeah. No, that's fine for a
14 follow up. That wouldn't be an issue.

15 MR. KAMINSKI: Okay. Well, that concludes our interview here
16 with Mr. Adam Vrabec with the U.S. EPA. It's 10:18 on November
17 17th. Thank you very much, Mr. Vrabec. I appreciate your help,
18 sir.

19 MR. VRABEC: Great. Thank you.

20 (Whereupon, at 10:18 a.m., the interview was concluded.)
21
22
23
24
25

CERTIFICATE

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

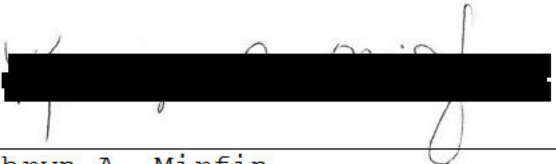
IN THE MATTER OF: FATAL CARGO TANK COMBINATION
VEHICLE CRASH & SUBSEQUENT
RELEASE OF ANHYDROUS AMMONIA
NEAR TEUTOPOLIS, ILLINOIS
ON SEPTEMBER 29, 2023
Interview of Adam Vrabec

ACCIDENT NO.: HWY23MR017

PLACE: via telephone

DATE: November 17, 2023

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.


Kathryn A. Mirfin
Transcriber

UNITED STATES OF AMERICA

NATIONAL TRANSPORTATION SAFETY BOARD

* * * * *

Investigation of: *

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FATAL CARGO TANK COMBINATION VEHICLE *

CRASH & SUBSEQUENT RELEASE OF * Accident No.: HWY23MR017

ANHYDROUS AMMONIA NEAR TEUTOPOLIS, *

ILLINOIS ON SEPTEMBER 29, 2023 *

*

* * * * *

Interview of: CHARLES "CHIP" DAY, Senior Project Manager
Specialized Response Solutions

via telephone

Tuesday,
November 14, 2023

APPEARANCES:

RONALD KAMINSKI, Survival Factors Investigator
National Transportation Safety Board

BOB CLATTERBUCK, Branch Chief
Hazmat Investigations Division
National Transportation Safety Board

I N D E X

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I N T E R V I E W

(10:00 a.m.)

1 MR. KAMINSKI: Hello.

2 MR. DAY: Hello.

3 MR. KAMINSKI: Hello. Mr. Day.

4 MR. DAY: Um-hum.

5 MR. KAMINSKI: Hello. This is Ron Kaminski with the National
6 Transportation Safety Board.

7 MR. DAY: Hey, Ron.

8 MR. KAMINSKI: How are you doing today?

9 MR. DAY: Sorry. I'm doing good.

10 MR. KAMINSKI: Good.

11 MR. DAY: A lot better than the last time I talked to you.

12 MR. KAMINSKI: Good. I'm glad to hear that. So do you have
13 a couple of minutes you can talk to myself and Mr. Bob
14 Clatterbuck?

15 MR. DAY: Sure. Can you give me just a minute to finish what
16 I'm doing, and I'll be right back to you?

17 MR. KAMINSKI: Absolutely.

18 MR. DAY: I mean it'll just take me about a minute and a
19 half.

20 MR. KAMINSKI: Not a problem, sir. Thank you.

21 MR. DAY: Hang on.

22 (Pause.)

23 MR. DAY: Oh, yeah. I'm back.

1 MR. KAMINSKI: Okay. Great. So, Mr. Day, if you don't mind,
2 I'm going to record this, and I'll give you a transcript when it's
3 done, but this way I don't have to interrupt you and, you know,
4 I'm not a real good note taker. So, do you mind if I record this?

5 MR. DAY: No, sir.

6 MR. KAMINSKI: Okay. And then if you could start with --
7 well, first of all, my name is Ronald Kaminski, K-a-m-i-n-s-k-i.
8 I'm an investigator with the National Transportation Safety Board,
9 survival factors, and so today's date is November 14th. It's
10 approximately 10 o'clock a.m. And, also with me is my colleague,
11 Mr. Bob Clatterbuck. Bob, could you spell your last name please?

12 MR. DAY: Common spelling.

13 MR. KAMINSKI: Yeah. Bob, are you there? You know what,
14 I've got to merge his call. I've got to merge his call.

15 Hello, Bob. Are you there?

16 MR. CLATTLERBUCK: I'm here.

17 MR. KAMINSKI: Okay. Could you -- we have Mr. Day on the
18 phone. Could you spell your last name, Bob?

19 MR. CLATTLERBUCK: Last name is spelled C-l-a-t-t-e-r-b-u-c-
20 k.

21 MR. KAMINSKI: Great. So I have Mr. Day on the phone.

22 Mr. Day, you're last name is spelled D-a-y, correct?

23 MR. DAY: That is correct.

24 MR. KAMINSKI: And your first name is Chip, and you have a
25 different first name or is that --

1 MR. DAY: My legal name is Charles but I go by Chip.
2 Everybody knows me by Chip.

3 INTERVIEW OF CHARLES "CHIP" DAY

4 BY MR. KAMINSKI:

5 Q. And would you be able to -- why don't you just give us a
6 description. I know when the crash occurred on the 29th, who
7 called you and we're kind of wondering how you got involved in
8 this event.

9 A. To be brutally honest, when bad things happen, I usually get
10 pulled in. I've done this for -- I've done response work for 40,
11 now 42 years. So when bad things happen, I usually get pulled in
12 some way, shape or form to provide, you know, some kind of
13 assistance to the on-scene coordinators.

14 Q. And who are you employed by?

15 A. I work for a company called Specialized Response Solutions
16 based in Fort Worth, Texas. Our parent company is a company
17 called Republic Services.

18 Q. Okay. And you said you've been with them for 42 years?

19 A. I've been doing this in the commercial (indiscernible)
20 response for 42 years.

21 Q. Okay. Fair enough.

22 A. Not just for these guys.

23 Q. Okay. So how did you get -- how did they know to call you or
24 how did that happen?

25 A. So, I got a call at 3:45. I guess the wreck happened on the

1 29th, and that's a question?

2 Q. Yes, about 8:45 in the evening.

3 A. Okay. So, I got called at 3:45 the following morning from
4 the federal (indiscernible) coordinator from the U.S. EPA. I know
5 this gentleman very, very well, and basically my phone rang at
6 3:45 and I looked at it and said, well, this can't be a social
7 call. Hey, Paul, what's up? And he basically just gave me a very
8 quick overview that there was an anhydrous ammonia tank trailer,
9 that there was rupture, there was a release and they had about
10 half a load remaining in the trailer, and I needed to communicate
11 with the incident command staff for T-Town. And I had no idea
12 where. So I went to my office and got things fired up while I was
13 talking to the incident commander and getting another overview of
14 the incident, of what've they seen, what proactive attack --
15 things that they have done, and what they were looking at possibly
16 doing or allowing the trucking company to do with the remaining
17 material to get it out of the trailer so they could, you know, do
18 the rest of the response. I don't know how far you want me to go
19 before you start asking questions or just --

20 Q. Just keep going. Yeah, we'll pipe in.

21 A. Okay. So, we talked very briefly about the material. I
22 didn't know, you know, at 3:45 in the morning, I had no earthly
23 clue what they knew, what they didn't know. I didn't know. At
24 the time that I started talking, I didn't know how much before my
25 -- that I get pulled into it did it occur. I wasn't until way

1 later in the morning that I find out that it happened at 8
2 something, 8:30 the night before.

3 They told me they patched the hole, and as soon as he told me
4 that, I said, you all get ready to take that patch off or -- and
5 let that trailer breathe, and they just could not fathom why I
6 would tell them to take the patch off. Just based off of my
7 knowledge of compressed gases, and anhydrous ammonia is one of
8 them, just like LPG and several other things, if you have a breach
9 and you have a release, the material is going to sit there. It's
10 going to release for so long, and then it's going to super cool or
11 what we call in the industry auto refrigerate. And, then when it
12 auto refrigerates, it's sitting somewhere in the minus 30-ish
13 range of temperature, and it's just sitting there as a liquid. As
14 long as it can still breathe and can't building up any pressure,
15 it's going to basically just very slowly gas off.

16 So I explained, you know, all the mannerisms with the
17 material, and I said, you know, I asked the hole was in the
18 trailer. Had they seen the hole and they said, yeah, it's on the
19 head. And I said, well, okay. What possibly could have punctured
20 it, and they sent me -- really quick sent me a few pictures of the
21 trailer, not really a close up of the hitch assembly that I
22 understand from later conversations, that it was the -- a pintle
23 hitch that actually went through the head of the trailer.

24 Q. Yeah, correct. Lunette ring I think they call it.

25 A. Yeah, us normal people just call them pintle hitches.

1 Q. Right.

2 A. So it went through. I said, okay. And they used a MagPatch
3 type of sealing mechanism which because of the training classes
4 that I put on, one of the biggest problems that we've had with
5 first responders is they're really, really good at focusing on the
6 problem and trying to correct that problem. So they'll, you know,
7 they'll patch something. What they don't realize, they don't have
8 enough knowledge with the material they're dealing with, that if
9 you patch it, now that material is going to say, hey, you know
10 what? I can -- I'm feeling a little bit of pressure. Let's start
11 warming up which is exactly what happened.

12 So they sent me a video. They sent another crew in. They
13 sent me a video of what they found, and as they got close to the
14 trailer, you could just hear the gas pressuring out of the patch.

15 Q. Right.

16 A. I told the chief, I said that is exactly the problem we have
17 right now. You need to take that patch off that trailer because
18 it's going to do nothing but continue to build more and more
19 pressure because the material feels some pressure, and it's going,
20 oh, we can start warming up and then making more and more gas.

21 Q. Okay.

22 A. They said, oh, okay. So that's exactly what they did. They
23 pulled the patch off or repositioned the patch to allow it to
24 breathe, and that problem was rectified. So the -- I believe it
25 was the transportation company, someone from the transportation

1 company, whether it was the owner or somebody that was, you know,
2 fairly knowledgeable about anhydrous ammonia, the chief told me
3 that the plan was for them to gas the trailer off. I said, okay,
4 that's a good move. It's going to be slow, but that'll be fine.
5 They said they want to build up pressure in that trailer, and I
6 said stop right there. Do not listen to the words that are coming
7 out of their mouth, and I used that term, you know, frequently on
8 these big incidents, that I really need to listen very intently to
9 what I'm fixing to you. Do not let them build up any pressure in
10 that trailer.

11 And I guess the transportation owner or a representative
12 said, well, why not? I said, you've got a holed (ph.) trailer.
13 It will not build up any pressure. So it will not allow this
14 material to warm up. And I said what kind of equipment are you
15 talking about using. He said, well, a pump and a compressor, and
16 I said, okay. That's good for the pump. Forget the compressor.
17 There's no need to use a compressor because you're not going to do
18 what you think you're going to do. And I guess a light bulb went
19 off in his head, and he said, I'm thinking about a whole vessel,
20 not a holed vessel but a whole vessel. He said I can usually, you
21 know, draw the liquid down. I said, exactly. You can't do it
22 this way.

23 So, I recommended, suggested that they bring a company called
24 RMS. I mean I was -- I'm in Fort Worth, Texas. So Fort Worth,
25 Texas to Effingham, Illinois, it takes a little while to get

1 there. I said you need help really, really bad and I've got a
2 contractor that I use, that I train with, based out of
3 Schererville, Indiana, and it's a company called RMS.

4 Q. Right.

5 A. So I reached out to Connor with RMS, and I said this is the
6 problem. There is where I need you. And this is what I need you
7 to be able to go down and do. So there was some back and forth
8 because myself, incident command, the trucking company and RMS and
9 EPA trying to get all the ducks in a row because we're a for
10 profit corporation, and we don't do anything -- do very much for
11 free. What I was doing for free was free, but I'm not going to
12 have a contractor go and do anything unless he's going to get paid
13 for it.

14 So there was some jockeying done between the EPA. They were
15 going to hire us direct or through the start contractor to come
16 and basically take care of this problem. So, everything got
17 worked out. RMS got on the road. They went down. They did a
18 detail damage assessment. We talked about it. The trailer was
19 still open to the atmosphere. So it wasn't building up with any
20 more pressure. They brought a transport in, another ammonia
21 transport in. They backed it in. They pulled the rear man way
22 plate off, dropped the hose in and did some other things that is
23 hard for a pump to be able to pull auto refrigerated material
24 whether it's LP or anhydrous ammonia. It's very, very difficult
25 because as soon as it starts drawing a little bit of vacuum, it

1 wants to flash to a gas. So you kind of take the pump. So you've
2 got to do a bunch of series of open valve, close valve, pinch
3 valves back, in order to get the pump primed. Once they, once
4 they got the pump primed, pumped it out, got down to the very last
5 little bit of liquid, put the man way back on, patched the hole
6 and we're talking, they were -- the trailer was virtually empty.
7 Stood it up and took it to a local coop I believe and filled the
8 trailer with water and then they were going to use the water for
9 beneficial reuse somewhere on a piece of property.

10 So that's the 30,000 foot view of everything that happened on
11 that incident.

12 MR. KAMINSKI: Okay. And, I guess, Bob, do you have any
13 questions for Mr. Day?

14 MR. CLATTERBUCK: Yeah. Bob Clatterbuck with NTSB, hazmat
15 investigations.

16 BY MR. CLATTERBUCK:

17 Q. Chip, did -- when you talked to the fire department, did you
18 discuss in any way what the proper PPE or what they should be
19 doing as far as approaching this tank?

20 A. Well, they had the -- I was told early on that the Effingham
21 Fire Department was on scene, and I know they've got a fairly
22 decent hazmat team. We didn't really touch base at all on PPE,
23 knowing that they had already gone in and patched the trailer or a
24 group had already gone in and patched the trailer, just knowing
25 the product. There was no need with what I felt to reiterate

1 levels of protective clothing, SCBAs or respirators or whatever.
2 So that really was not discussed.

3 Q. Okay. And then as far as the tank building up pressure,
4 could you give me a better a description of that? I don't think I
5 followed you quite close enough on why not have a patch on that
6 tank?

7 A. Okay. So, a compressed gas material, whether it's LP or
8 anhydrous ammonia, both react similarly. Both of those materials
9 are by nature gases. As long as they're put into a pressure
10 vessel, and you can build up pressure inside that vessel, the
11 material will go into a liquid state. So you can move this
12 material in large volumes in a liquid state. So, any of the
13 compressed gases, any of the tank cars or tank trucks that run
14 down the road in pressure vessels are most likely, and that's not
15 100 percent, but really close, are compressed liquids, compressed
16 gas liquids. So they stay in a liquid state as long as they have
17 pressure on them.

18 If you poke a hole in the trailer, a portion of the tank, of
19 the material contained in the tank is going to flash from a liquid
20 to a gas because that's what it wants to be. It wants to be a
21 gas. It doesn't want to be a liquid. But now as soon as that
22 pressure drops off to atmospheric or what we call flat, then the
23 remaining liquid, what hasn't already flashed to a gas and
24 escaped, the remaining liquid is at a -- it's sublimed if you will
25 or what we consider auto refrigerated. It is super, super cold,

1 and it's just a liquid because looking at you, it's just waiting
2 to turn back to a gas as soon as it warms up. You apply a little
3 bit of heat, whether it's atmospheric heat or gentle heat from a
4 boiler or some kind of heat source, that liquid will get agitated,
5 and it'll start flashing more liquid to a gas because that's what
6 it wants to do. It's warming up, and it's flashing to a gas.

7 So, anhydrous ammonia has an expansion ratio, depending on
8 who you talk to, somewhere between 800 and 850 to 1. So 1 gallon
9 of liquid makes between 800 to 850 gallons of vapor. It's a shit
10 load of freaking vapor.

11 Q. Yeah.

12 A. So, the remaining, let's just say slightly under half a tank
13 was sitting there at minus 30, and as long as it was able to
14 breathe, it would have stayed there for a long time. It would
15 have very slowly gassed off. So within the fire department
16 responding and putting a patch on it, that's a fantastic idea. We
17 teach, you know, patch -- plugging and dyking and patching in all
18 the first responder classes that we put on. But, as soon -- with
19 these types of materials, with compressed gasses, as soon as --
20 you've got to have a plan for patching. Okay. Great, fine and
21 dandy. But you better have a plan -- A is the patching, C, D, E,
22 F and G plans already prepared so when this happens, we go this
23 direction. If this happens, we go this direction. So they got on
24 scene, saw they had a problem. So it's like, okay, let's patch
25 it. Okay. Great. But that's as far as they planned. Patch it.

1 So they went in, threw the MagPatch on, stopped the leak, which
2 was fantastic. But, they didn't have an avenue for what to do
3 next when the material begins to warm up because that -- as soon
4 as they patched that hold, now again you have a pressure vessel.
5 So this material starts to feel a little bit of pressure as it's
6 gassing off, and it's going, humm, I feel pressure. Let's start
7 warming up.

8 Q. Right.

9 A. Then that material will actually continuously build pressure,
10 build pressure, build pressure, until it's either, you know, back
11 to equilibrium, you know, it builds pressure back up to, you know,
12 let's just say 100 PSI, 120 PSI, depending on what the temperature
13 of the day is, and atmospheric events. It's either going to
14 pressure up and then stabilize or it's going to blow the patch
15 apart or blow the patch off the container. And that's what I did
16 not want to have happen is allow that thing to keep building up.

17 So when they walked around and took the videos and had to do
18 kind of detailed damage assessment, when they got, I would say
19 probably 60, 80 feet from the trailer, I could hear the gas
20 releasing. So I knew that they had done a pretty damn good job of
21 patching the trailer. And then when they walked around the front,
22 I could actually see it, and that's when I told the chief, I said,
23 get ready to take the patch back off or vent, open the vapor valve
24 on the trailer and let it breathe. So what they should have done
25 is had a tank truck of or several tank trucks of water with a

1 sponge bar or a hose that they could have thrown in and when they
2 patched it, just hooked up to the -- thrown a hose over into a
3 tank truck and as that pressure was building up, it would have
4 been released into a tank trailer of water making aqua ammonia and
5 it would have stayed there pretty much steady until the equipment
6 got on scene to do the actual transfer.

7 Q. Okay.

8 A. Does that help you a little bit?

9 MR. KAMINSKI: Yeah. Well, how did this idea of flaring it?
10 How did that come about?

11 MR. DAY: Okay. So anhydrous ammonia is -- has a very narrow
12 flammable range from 13 to 26. I forget the exact range, but it
13 does have a flammable range. It's kind of cantankerous to get
14 started but that is another option for getting rid of anhydrous
15 ammonia vapor. They could have hooked on -- once they put the
16 patch on, plan C or plan D could have been flaring it. So
17 basically we would take, you know, leave the patch on place. As
18 the pressure was building up, we draw that off, send it over to a
19 ground flare or a thermal oxidizer or whatever we have available
20 to us, you know, in short order. Then we could have burned off
21 all the ammonia vapors and all the liquid. Granted, it would have
22 taken a lot longer but -- because we have to take that liquid from
23 an auto refrigerated state, we had to move it to a gaseous phase
24 to get it into a -- onto a -- or into a hose to go to a flare.

25 Q. Okay.

1 A. That's just one of the many things that -- options that we
2 have that a lot of first responders don't realize that's why
3 you've got to rely on industry on a lot of these types of events.

4 MR. KAMINSKI: Bob, do you have anything else for Mr. Day?

5 MR. CLATTERBUCK: Yeah, just a couple more things.

6 BY MR. CLATTERBUCK:

7 Q. Do you have -- can you provide the contact information to
8 RMS, the people you talked to and then did you stay in contact
9 with them after the incident and get any feedback from them?

10 A. Yeah, I'll give you the contact information. First name is
11 Conner, and the last name is Schaeffer, S-c-h-a-e-f-f-e-r.

12 Q. I think we have one of his cards.

13 A. And his phone number is [REDACTED].

14 Q. And that's for Conner Schaeffer.

15 A. That's Conner Schaeffer. Yes, sir.

16 Q. Yeah, I think they might have shown us one of his business
17 cards. And then that Paul you mentioned from EPA, was that Paul
18 Sweeney?

19 A. No. Hang on just one second. Let me make sure I give you
20 the right person.

21 Q. Yes.

22 A. Paul Ruesch, R as in Robert, u-e-s as in Sam, c-h. Paul
23 Ruesch.

24 Q. Okay.

25 A. EPA Region 5. And his phone number, since you're a

1 government official, I guess I ought to give it to you, [REDACTED]
2 [REDACTED], and I think he's currently in Hawaii on a wild fire cleanup.

3 Q. Oh, that's gotta be tough.

4 A. Yeah, he said it sounded a lot more glorious than what it is.

5 Q. Sure, I imagine.

6 A. But those are the two folks that I dealt with. There was
7 some other ones, you know, fire chief and stuff like that, but his
8 name escapes me right now but I've got it in my phone book.

9 Q. Joe Holomy or Tim McMahon? Those -- Joe Holomy was the
10 incident commander for the fire.

11 A. Yeah, Holomy.

12 Q. Holomy. Okay.

13 A. So I forget what the question was, but those are two guys
14 that I spoke to and I kept up with kind of both of them on and off
15 throughout the incident, just to make sure that it was all --
16 everything was going the right direction, and he'll -- I mean if
17 you think about it, the transfer didn't take but -- once it was
18 all set up, the transfer took probably 30, 40 minutes, and it was
19 done.

20 Q. Right, right.

21 MR. KAMINSKI: Bob, did you have anything else?

22 MR. CLATTERBUCK: No, I think that's it. We really
23 appreciate your time.

24 MR. DAY: Not a problem. The other thing, and I have to ask
25 this after my [REDACTED] beating at East Palestine. This is not going to

1 a public hearing, correct?

2 MR. KAMINSKI: That is correct. There's no public hearing.
3 We decided that within the last week.

4 MR. DAY: Thank you.

5 MR. KAMINSKI: Okay. Well, if you don't mind, this is the
6 number we have for you, [REDACTED]. It's a good number if we
7 have any follow up for you?

8 MR. DAY: Oh, most definitely.

9 MR. KAMINSKI: Okay. Well, I appreciate it and, Bob, if you
10 don't have any questions, we can conclude the interview here, at
11 10:27 p.m. or a.m. Central Time. So --

12 (Whereupon, at 10:27 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

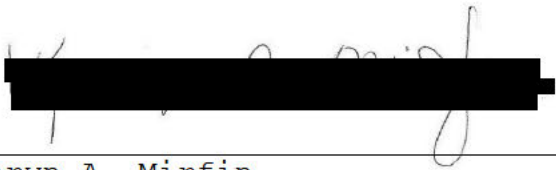
IN THE MATTER OF: FATAL CARGO TANK COMBINATION
VEHICLE CRASH & SUBSEQUENT
RELEASE OF ANHYDROUS AMMONIA
NEAR TEUTOPOLIS, ILLINOIS,
ON SEPTEMBER 29, 2023
Interview of Charles "Chip" Day

ACCIDENT NO.: HWY23MR017

PLACE: via telephone

DATE: November 14, 2023

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.


Kathryn A. Mirfin
Transcriber