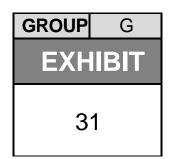


NATIONAL TRANSPORTATION SAFETY BOARD Investigative Hearing

Norfolk Southern Railway general merchandise freight train 32N derailment with subsequent hazardous material release and fires, in East Palestine, Ohio, on February 3, 2023



Agency / Organization

NTSB

Title

Interview Transcript, Drew McCarty, President Specialized Professional Services, Inc., February 23, 2023

Docket ID: DCA23HR001

UNITED STATES OF AMERICA

NATIONAL TRANSPORTATION SAFETY BOARD

Investigation of:

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NORFOLK SOUTHERN TRAIN DERAILMENT *

IN EAST PALESTINE, OHIO
ON FEBRUARY 3, 2023

* Accident No.: RRD23MR005

Interview of: DREW McCARTY, President

Specialized Professional Services, Inc.

East Palestine, Ohio

Thursday, February 23, 2023

APPEARANCES:

PAUL STANCIL, Investigator National Transportation Safety Board

PAUL CAREY, Retired Fire Chief Boston Fire

SEAN LYNUM, Chief of Pipeline and Hazardous Materials National Transportation Safety Board

RANDY KELTZ, Manager of Tank Care Programs for U.S. DOT Federal Railroad Administration

TERRY HEIDKAMP, Vice President GATX Corporation

DAVE MECKFESSEL, Accident Investigator
Pipeline and Hazardous Materials Safety Administration

PETE MANYEK, Senior Manager of Design Engineering GATX Corporation

MARC DOUGHERTY, Investigator National Transportation Safety Board

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INTERVIEW

(9:15 a.m.)

MR. STANCIL: Today is February 23rd, 2023. It's 9:15 a.m. This is an interview being conducted in connection with the Norfolk Southern Railway train derailment in East Palestine, Ohio, that occurred on February 3rd, 2023. The NTSB number for this accident investigation is RRD23MR005.

My name is Paul Stancil. I'm a senior hazardous materials accident investigator with the National Transportation Safety Board. We are Located in East Palestine, Ohio, at the -- what's the name of the facility here? The --

MR. KELTZ: The United Methodist Church.

MR. STANCIL: The United Methodist Church in East Palestine,
Ohio. This is an interview of Mr. Drew McCarty who is the owner
of Specialized Professional Services Incorporated, SPSI.

Mr. McCarty, are you aware this conversation is being recorded?

MR. McCARTY: Yes.

MR. STANCIL: Do we have your permission to record the conversation?

MR. McCARTY: Yes.

MR. STANCIL: So now I'm going to go around the room and we'll do introductions. It's very important that we all speak loudly and clearly. Please give me your name, the spelling of your last name, and your title, please. Again, I'm Paul Stancil,

senior hazardous materials accident investigator, NTSB. And my last name is spelled S-t-a-n-c-i-l.

MR. CAREY: Hi, my name is Paul Carey, C-a-r-e-y. I'm a retired fire chief from Boston Fire and I'm here as a party representative from the International Association of Firefighters.

MR. LYNUM: My name is Sean Lynum. Last name is L-y-n-u-m. I'm the chief of Pipeline and Hazardous Materials at the National Transportation Safety Board.

MR. KELTZ: Randy Keltz, K-e-l-t-z. I'm the manager of tank care safety programs for the U.S. Department of Transportation, Federal Railroad Administration.

MR. HEIDKAMP: My name is Terry Heidkamp, H-e-i-d-k-a-m-p.

I'm a vice president at GATX Corporation and I'm a party

coordinator for GATX.

MR. MECKFESSEL: My name is Dave Meckfessel, M-e-c-k-f-e-s-s-e-l. I'm an accident investigator for Pipeline and Hazardous Materials Safety Administration.

MR. McCARTY: Good morning. Drew McCarty. M-c-C-a-r-t-y. President of Specialized Professional Services, Inc.

MR. MANYEK: My name is Pete Manyek, M-a-n-y-e-k. I'm senior manager of design engineering at GATX Corporation.

MR. STANCIL: Okay. And that's everyone in the room.

Mr. McCarty, if any question is unclear or you don't understand the question, please ask us to clarify or restate the question. And if you don't know the answer, that's okay. Just

tell us you don't know.

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We also don't want you to speculate if you don't know the answer to any questions that we ask you. Do you understand?

MR. McCARTY: Yes.

MR. STANCIL: So the sole purpose of this investigation is to improve safety. Not to assign fault or blame or liability. Our mission is to improve transportation safety and prevent accidents.

So as such, the NTSB cannot offer any guarantee of confidentiality, immunity from any legal proceeding by any other agency whether it be local, state or federal. A transcript of this interview will be placed in the public docket for this investigation which will be available via the NTSB website.

We all good with that?

MR. McCARTY: Yes.

INTERVIEW OF DREW McCARTY

BY MR. STANCIL:

- Q. To begin with, could you tell us a little bit about your background, your education, and expertise?
- 19 A. Sure. So grew up very active in my local fire service.
- 20 | Started as a junior firefighter unofficially back in the day at
- 21 | age 13 but officially at age 14. Been helping since a long time
- 22 ago. 1980-ish or so. But served there as assistant chief for
- 23 many years and been doing industrial firefighting for industry --
- 24 | industrial firefighting, environmental hazmat since 1989 spring.
- 25 | So this (indiscernible) math in public here. I was thinking about

that this morning. About 35 years or so is how long I've been doing this.

And among those experiences, we're not unique to railroads.

Railroads are one of many clients and many industry. So we're

very diverse in terms of our client base, but certainly, railroads

and I go way back. So I've been helping class I railroads and

short lines probably for 30 of those 35 years pretty actively.

- Q. And can you tell us what services your company provides?
- A. So we grew the company from -- we opened the company doors specializing in high-hazard chemical transfers, industrial firefighting support. Things like that. We still do those things today.

We certainly are all about helping people. And our customers have asked us to step in, do this, do that. So we're very broadly based in terms of our service capabilities and what we do. And with that said, there's going to come a point in our visit today where you'll kind of realize that after the wreck was cleared, I kind of stepped away from the vinyl chloride risks and the pressure car risks and started helping environmental. So we'll kind of get to that in the visit, I'm sure.

But the -- we're pretty broad based and it's just nice that Randy is here. He's also knows we're also C6 certified for valves and fittings repairs on tank cars. Our hazmat credentials afford us the ability to safety deal with cars that are often -- it avoids them having -- avoids our customers having to take them to

- 1 a shop and clean them. So we can actually do things with PPE and
- 2 scrubbing and doing things in the field to safely manage those
- 3 | risks while getting their valves and fittings taken care of and
- 4 | leave their cars in service. So we also are very well in tune
- 5 with tank car packaging. And I've been many, many years as an
- 6 instructor or guest instruction at Pueblo and -- just we're pretty
- 7 | solid with tank cars.
- 8 Q. And where is your company headquartered?
- 9 A. Our headquarters is Washington, Pennsylvania. Which is south
- 10 of here.
- 11 Q. And do you have any other locations?
- 12 A. We do. We have an office in Reserve, Louisiana. It's a
- 13 | small shop. And we have two, what I'll call an affiliate company.
- 14 | It's technically a separate company on the books but we -- and our
- 15 | company is SPSI. Two offices in Ohio.
- 16 Q. And how many people are employed by the company?
- 17 A. That's a moving target the last few years. We're somewhere
- 18 | between 90 and 100 personnel.
- 19 Q. Very good. Well, let's start by asking you to walk us
- 20 | through in as much detail as you possibly can what happened after
- 21 you were notified of this derailment.
- 22 A. Sure. So Scott Deutsch, our customer at Norfolk Southern in
- 23 this region -- he's a hazmat manager for NS who dispatched us that
- 24 | Friday evening. I don't remember the exact time of dispatch but
- 25 | it was pretty quick pretty early on in the incident. I recall

that we were noting that we were on scene within two hours of the incident. Don't remember the exact timestamps. I took virtually not notes myself as I was heavily engaged in the intimate operations of the pressure cars and the fires and looking at those as a priority triage the whole time.

And I had some good people helping me administratively down in our ops trailer and otherwise. But the exact timestamps of certain things I'm going to be -- I'll just say it now as I present all of this -- what I know is certainty, I'll share as certainty -- and what I know is general I'll say roughly noon-ish or something like that. I'm not going to have an exact, an 11:59, nothing like that.

So Friday evening, we got a call for active derailment, lot of fire, not a lot of information known at the time. So as we're mobilizing, you know, you're getting little updates from employees, employees' families showing you media clips that are already out there, and people are already -- between whatever, Twitter and social media, and people taking pictures -- you could see heavy fire. Ditch line fire on the south from the major pileup going westward in the ditch line on the south. There was big -- heavy fire trail. I'm sure you all have seen those pictures by now.

So we kind of knew what we were getting into as far as a working derailment with a lot of -- work the consist, figure out what's in there and figure out what we got. Scott Deutsch

would've arrived approximately 30 minutes before me. I doubled to the shop. I didn't go straight from my house. I went to the shop to grab one of our response trailers. And -- so I was probably 30 minutes or so behind Scott arriving.

One of my other senior folks, Ryan Tacharsky (ph.), he did come straight from the house. Excuse me one second here. I'm going to silence the phone. He got here between Scott Deutsch and I. So between a 30-minute period, Scott Deutsch, Ryan Tacharsky, Drew McCarty, we were the threesome representing Norfolk Southern hazmat in that early era. We rolled in to find -- by the way, it's nice to see you engaged in this process as a fellow firefighter.

MR. CAREY: Thank you.

A. The local folks, fire service folks, had an amazing operation deployed. I mean, the good things they did is they saved buildings. They saved businesses. They definitely -- like (indiscernible) heat exposures, they really did a yeoman's job. But as we often see in hazmat train derailment, local firefighters, they just don't know what they don't know and the risk. And it took us a few hours to kind of help them unwind their offensive operations.

We -- Scott Deutsch, myself, Ryan Tacharsky, we all shared the exact same concerns. We have massive fire, many tank cars. We were looking at the consist pretty quickly. The (indiscernible) Scott was sharing as we were in route. We were

hearing vinyl chloride. We were hearing butyl acrylate. We were hearing -- we had stuff in the train. Right?

So we were politely and respectfully encouraging firemen to unwind, to clear up. You're committed too close. You're not going to put these fires out. There's things that are going to go on here. We don't know what yet. But we need to pull you back. So it was a very good teamwork that happened. It took probably, I'm guessing, two to three hours to make that happen. But I'd say roughly -- and again, I'm saying roughly -- by midnight-ish or so.

The majority of folks had unwound and kind of started the unified command down at the local fire station garage. It must be a spare garage maybe. An old garage. So a lot of agency folks from local fire, police, Ohio EPA, even Pennsylvania DEP, EMA people were there. Again, there was a lot of multi-agency presence pretty quick.

So the -- we as the team had the wheel report from the railroad and we were working it just as if any -- how we work derailments is (indiscernible) process, work the consist, figure out what's in the wreck and try to start plotting what we know, what we don't know.

So the nighttime -- heavy fire, heavy smoke, drone flights, the county commissioner Tim, great guy. He happens to fly drones for his local sheriff's department, police department. He's their local resident drone pilot. He was incredibly helpful that night. Although the drone footage didn't really reveal us as many details

as we would've liked.

Ryan Tacharsky and I did do some what I'll call very deliberate -- got in maybe around the back of the blue building west/southwest side to see what we could see from a safe distance. The firefighters had successfully put out a burning plastic pellets car behind -- was it Brave -- no, not Brave Industries -- that's CeramFab. Behind CeramFab's building they were successful in extinguishing a plastics pellets car while protecting that building from radiant heat.

Again, they did a yeoman's job but they were fully committed with aerial apparatus, men in towers, and kind of just way too close to tank cars. And sure enough, it was not long after we pulled everybody back that the first pressure relief device started activating. So those pressure relief devices or at least on one of them started activating I think not long after midnight or in that midnight vicinity.

And as the pool fires burned under those cars, and pressure relief devices started going, obviously, fires ensured and then elastomers and things burned out of the valves and fittings otherwise. So three of the five vinyl chloride cars were obviously in high priority attention early on. And on that note, early on, in the very first minutes of the whole -- in that fire department garage, there was very vivid conversation about the fire chief asking Norfolk Southern about should we evacuate.

And I've been doing this a long time. The responsible

parties never tell the fire chief what to do in an evacuation.

Never. It's always the public safety's responsibility to call an evacuation or not. But we, in harmony with Norfolk Southern, guided him to the orange DOT guidebook. And we said look, it's a one-mile recommendation. That's real.

You have pressure cars in this wreck. That's a very real thing. You got pressure cars and pool fires. We encourage you to consider that one-mile evacuation. I commented on something that a wise guy told me from -- a guy I respect, Tom Davis, he said the tank car (indiscernible) is three-quarters of a mile and that's where the one mile came from. So I always remembered that and I always try to share that.

So they were well aware. And I say they meaning the entire unified command. All agencies heard that message. Recommend one mile based on the orange DOT guidebook. Incident commander's choice to do that.

So I do know that fire chief, police, they tried to get people out of their houses Friday night, Saturday, Sunday. It was a challenging thing for them but that's kind of outside my realm. I'm just going to get back to my, I guess, reason I'm here. So Ryan Tacharsky and I observed some of the butyl acrylate not burning. And we know it was butyl acrylate because we've dealt with industrial chemicals. In my case, 35 years. Acrylates are acrylates. When you know an acrylate, you know it's acrylate.

So we reported that. We got back that hey, you have liquid

acrylate in between the tracks and told them where it was. So again, it was communicated to the group, all people in that building, that there was some stuff not burning. By that time, the ditch fire had burned out. There was no active ditch fire.

That ditch fire didn't burn very long from the -- what would it be -- Pleasant Street crossing eastward, that kind of started all the -- that plastic car on fire. Those box cars of beer, they were smoldering for days on the west end. That fire didn't burn very long. It burned itself out in the first two or three hours.

But the pool fires pursued through the night. Pressure relief devices were activating through the night. And drone flights attempted to pinpoint cars. Couldn't really see much at night. No good car numbers. Very little was confirmable in the night drone flights.

The next morning, we -- myself and Scott Gould with Norfolk Southern hazmat, we were able to get up in an Ohio State Police aircraft with really high-tech video surveillance equipment. That was incredibly helpful. We could pinpoint the isobutylene car. We were struggling all night to find the isobutylene car. We couldn't figure out exactly where it was in the wreck and that Ohio State Police flyover helped us pinpoint that based on car construction and at least getting the NATX (ph.) callsign off one of --

Even then though, in that condition, that would've been mid to late -- so let's say mid-ish, mid to late Saturday morning when

that flight took place. It was supposed to be 8 a.m. and it was late due to weather or something.

But smoky conditions persisted from various hopper cars that were burning and smoldering. Various boxcars that were burning and smoldering. Still had fire at that time from all three vinyl chlorides. Still PRD cycling on the one vinyl chloride.

Midday-ish on Saturday, the PRDs on the vinyl chloride settled down and we did note that as like a 90-minute to two-hour -- again, I know it's generalized but it was no more than two hours, but it was at least 90 minutes. I'm going to say I'm confident to say it was 90 minutes and maybe as much as two hours where the pool fires had kind of naturally subsided underneath those cars and the PRDs calmed down.

At that point, we made our first real level-B entry with some pressure gauges and some ladders to climb on some cars. We climbed on what was -- what I guess would be the easternmost VC car and I don't remember the car number off my memory but it was the easternmost one that was not in the pool fire. It was kind of between the pool fires and the burning plastic (indiscernible) cars. That one. Whatever one that was.

And put a pressure gauge on it just to check it. I don't remember what the pressure reading was but it wasn't alarming. At that point, it seemed to be pretty much behaving itself. The what I'll call the second VC car in from the east it was seriously heat impinged but it never leaked. It never leaked, it never burned.

But its orientation was such that we did not want to put our people on it for even attempting to pressure gauge it because we'd have put our people in the line of fire of PRDs if they choose to activate again. We'd have been in the line of fire on top of the car.

So we sent two teams one to there and one on the isobutylene car. We just got the ladder up to the isobutylene car for pressure gauge reading when -- I'm sorry, I forgot the card numbers. I'm just tired. But the one particular VC car that cycled more than the others and had been calmed down for almost two hours, it jetted off with a thunder. I mean, it -- when it released it, we had -- we had been observing it releasing all night and when it released Saturday afternoon, it released with a fury.

So it had been cycling all night and all morning, stopped, and our assessment was pool fire has calmed down, take away the Bunsen burner, now this car is somewhat not building as much pressure is what our assessment was at that moment but when it released while we were in there with those pressure gauge assessments and damage assessment walk, it had built more pressure than it had through the night.

And when it released, it released for a long time. And there is -- somebody did make a note of that and I could probably text somebody right now and that person would remember vividly. But it was like 70 minutes continuous. Not cycling. In fact, I know it

was 70 minutes. It's coming back to me.

So tactically speaking, we were already looking at areas to build a burn pit for doing hot tapping and liquid flaring of all those cars. At that point, at that moment in time, the easternmost car that we thought maybe wasn't very affected and the pressure gauge looked okay, we really weren't worried about that car from a real safety blowing up kind of thing.

But the other three in that pool fire and the one to the west by itself, we were absolutely concerned about that since Friday night. And we absolutely reminded folks every time there was briefings and (indiscernible). There's no reason people need to be down in there. There's these cars that -- so let me focus back. What are we talking -- liquid flaring.

We were looking at -- when we were doing those entries with pressure gauging, we were also looking at -- we had welders and staging, we had our hot tap machine and staging, we had hard pipe and staging. We were ready to hot tap those cars and burn them off. Because it's polymerizable material. I'm sure you guys know that. Characteristics of -- flammable characteristics of propane but yet the polymerization of it all was what we were most worried about at that point.

So we were looking at hot tapping and liquid flaring. And when that PRD did what it did after not activating for 90 minutes to two hours -- and when it did, it went off with a thunder -- we quickly realized, oh, crap, it's already been polymerizing and now

everything is gummed up under the pressure plates. So that's our experienced assessment. At this point, it was still just SPSI boots on the ground. And we were already there at vent and burn in our minds.

By the time we came out and met with Norfolk Southern,

Dave Schoendorfer had asked Chip Day and some of his colleagues to

come in just for extra sets of eyes, extra help, and I welcomed

that. They concurred when they got caught up on dynamics of the

event and their own assessments, they concurred.

So -- and just to talk through that, for the record, when the Monday morning quarterbacks want to guess and what if and all these -- everybody wants to think they're the experts in the media. Right? So all valves and fittings on three of the four cars were shot. Liquid transfer is not an option. Even if we hot tapped and liquid transfers, you can't knowingly and willfully put polymerizing material off spec into another package and sent it down the road. Just not an option.

Even if we did, it would've been an inch and a quarter diameter drill hole and a hot tap. We had no idea if some of those three cars may have been burned out. They'd been burning since Friday night. You can't weld in the vapor space without risk of another explosion from welding. You got to have liquid sink. And at that point, we have an unknown container of how much is left in it.

We know from science that there's a high probability that

these fires and the pool fires haver trigged polymerization.

Tactically speaking -- well, even the hot tapping to a liquid fire pit -- at that point, we were concerned about welding, potentially hitting vapor space if a car had been burned out already.

We were concerned that if we did drill through it, we'd have had polymer and potentially not been successful entering the car to a burn pit. All the while, putting our people at serious risk in that hot zone up close and personal for a lot of intricate details, a lot of setup time. Those things — they take time to set up. All of which we quickly ruled it out for risk.

Like I say, in our minds, as our team, we already came up with a vent and burn recommendation. As SRS guys, we're coming in. We waited for them to get here. Caught them up to speed. Have them have some input. They concurred. We as a team formally went to Norfolk Southern and presented to them. And Norfolk Southern was already there in their minds, as well. They concurred 100 percent. This is where we were at. Went to the command staff. It was kind of a smaller meeting. It was the mayor, the commander, his team. It was not a multi-agency meeting. And kind of presented to them -- I skipped a part. Let me back up here.

We talked about the three cars and the pool fire. The car on the west that was by itself, it also had some fire under it at one point. That fire had mostly burned out. But unfortunately, that fire also had a car of resin against it on the east side. So it was perpendicular to the tracks like north to south orientation. Immediately east of that was a cover hopper car with a powdery resin that was on fire but not vented. It was more smoldering combustion.

So mention that because we crawled on it to get -- there's a key point here that you folks should know about. There was at some point -- at some point -- this is where my tired brain needs to reboot a minute here. What day -- can you guys remind me which day we did the vent and burn? Was it Sunday or Monday?

Q. Monday.

- 11 UNIDENTIFIED SPEAKER: Monday.
 - A. Monday. Okay. So I'm into Sunday here. Let's see here.

 Friday, Saturday. So Saturday, all four -- all three cars burning including the one on the west was burning through Saturday into Sunday. Now, Sunday is the day I'm thinking of when we got on that hopper car.

So Sunday, what was alarming to us -- the fire on the VC car to the west snuffed itself out. And a lot of people -- oh, that's great, it burned itself up. I'm like, no, no. That's not a good thing. So we did an entry -- level-B entry specifically to evaluate that housing on Sunday.

One of our guys did the climbing for me. I was on the ground coaching him but he got up there, walked across this burning -- smoldering hopper car so he could get to the housing. It was rolled approximately 2:00 to the east. The housing was such where

it was presenting nicely from the catwalk of the hopper car. It was kind of a nice access. So he reported no audible hiss and that's very noteworthy to you folks. There was no audible pressure coming out of that car.

Our PRD did (indiscernible) a couple hundred parts per million right at the housing. Back on top of the car six feet away, it dropped instantly to nil. But when you stick the PRD in the housing, it was a couple hundred parts per million VOCs.

Uncorrected value. So there was like a 1.9 correction factor on the meter. So call it 4 or 500 parts per million vinyl chloride vapor coming out of that housing after the fire snuffed itself out.

Noteworthy to this assessment, there's no audible hiss. And where I'm going with that is on Monday, when the vent and burn occurred, you can see it in your own video, there was a tremendous amount of pressure in that car that relieved itself. Further indicating that pressure relief device -- all devices that had been leaking got gummed up. It gummed up to the point where there wasn't enough flammable vapor to support combustion anymore. It just quit releasing enough gas to burn.

It had been burning, burning, burning, burning since Friday night. And all of a sudden, didn't burn. So something internally plugged it off. In our world, we're not chemists but we know a lot of chemists in our lives. All the data points to polymerization. We're just putting two and two together and we

believe the polymerization process had been started.

So but I think that's a very important point because that car, during that assessment, while we were focused on the housing -- right when we were leaving that car, I noticed there was some jacket that had been torn in the wreck. And I just took a gloved hand and I went and put the back of my hand on the tank shell itself and it was hot. It was hot where I couldn't hold the back of my hand more than five seconds without having to remove it for nerves. Right?

So I had my technician. His name is Charles Phil (ph.). I said Charles come back. I says just watch me. And I'm going to do this and I want you to do it. Just don't burn your hand but I want you to be an independent person and do it. And he also put the back of his hand on it and agreed, you know, three to five seconds was about it and then you had to just not hold your hand there for getting burned.

So we went back in with a thermal imaging camera and documented a reading. It was in the vicinity of 135 Fahrenheit and ambient conditions at that time were much lower. There was no active pool fires going on. We started tracking that and trending that. It had gone up a couple degrees in 30 minutes or an hour or so. And then we started a trend. I'm happy to report that at some point it peaked out at like 138 or something and never really got worse.

But certainly, there was heat going on in that car. And we

monitored that pretty closely between Sunday night and Monday. Sunday was when we met with the fire chief, the mayor, and what I'll call his command staff folks to really break the news to them that we had exhausted all tactical options other than vent and burn and here's where we were at and they acknowledged.

And somehow, I will say, after the hornet's nest with the governor on Monday -- there was a disconnect somewhere between that meeting and other agencies -- and I have no idea what happened there. But we had told them that this one car on the east really wasn't necessarily affected. However, in the process of vent and burn, it was going to be and it just needed to go with the other four. We couldn't knowingly and -- we couldn't make a big fire that was going to purposely flame impinge that one without just managing it with the group.

So none of us can say whether it was polymerizing or not.

Certainly, it had radiant heat damage from the plastic pellet cars and things. But much like the isobutylene that behaved itself quite nicely, you know, that eastern VC car may or may not have been affected but it was just -- we couldn't take a chance. It had to be included with the mix.

So the plan unfolded. We flew Jason Poe in, Explosive Services International. And he's second generation doing this. His dad was Billy Poe. In the history of North America, U.S., and Canada, those gentlemen, their company have done 99 percent of all vent and burns on tank cars was my awareness.

So we brought in the right subject matter expert for that. I picked him up at the airport. At the FBO in Pittsburgh somewhere around midnight, 1 a.m. Saturday night. Brought him back, secured his explosives in one of our cargo trailers. Locked it up. Gave him the keys where he had custody of explosives. He went to the hotel to get some rest. I napped in my truck. My guys prepped -- started prepping the burn channels through the night. This would've been Sunday night into Monday.

Our guys prepped what I'll call the easternmost burn ditch and channel to channel fires away from the isobutylene car. We purposely created burn ditches to keep the burning vinyl chloride from the vent and burn process away from the loaded isobutylene car. So we channeled the fire to the east from those cars. And on the westernmost single car, we channeled that accordingly, as well, to keep it away from the isobutylene car.

So that prep work was done through the night Sunday night into Monday. And then Monday morning daytime -- really the easternmost channel work was prepped through the night Sunday. Then Monday morning, we did a daylight prep on that -- what I'll call the westernmost VC car. The one that was by itself. So two separate burn areas, loaded isobutylene kind in between them. And again, that was by design to keep those fires away from the isobutylene.

So at that point, we had taken Jason Poe -- Chip Day and I took Jason Poe into the work areas early that Monday morning to

get him and his crew a walk around the cars to look at how we had the burn pits created. Look at where we wanted to set the explosive charges as far as the lowest point in the car. We wanted to drain as much liquid out of the cars when this happened as humanly possible. The way the cars were oriented. So we did some more prep work with Jason and his men. Getting to the point where his explosive charges would be in good shape and perfect positions and things.

So that was kind of a planning recon trip Monday morning with him and his team. And we weren't even all the way walked out of the hot zone after that recon trip just about ready to start doing that work to get his cribbing and blocks and sandbags and things in there when Scott Deutsch from Norfolk Southern called me and says hey, can you, and Chip, and Jason Poe please come up to the command post. The governor of Ohio is here. He's got some questions. How did we get here. And then we walked into a political hornet's nest. So I don't know if you need me to go down that rabbit hole but there's -- I'll just share what I experienced.

So we came in and there was a roomful of people. I don't know if any of you might've been some of them. I have no idea. But the governor was all riled up. Had the governor of Pennsylvania on the speakerphone. And pretty much said how can you guys kill 3,000 people over 14 miles and we respectfully said well, we don't know what you're talking about, sir.

He had really bad air modeling from somebody. And we'll just leave it at that. The old computer adage garbage in, garbage out, it's exactly what somebody fed to governor. So I don't know who. Don't know what agency. But it was bad intel. So I politely and respectfully challenged that. And as I quickly saw that that was kind of a thing, I inquired is the person who did this modeling in this building and somebody said yes. I said can somebody take me to him or her.

I literally walked down the hall to the person doing air modeling. I had a CTH person over my shoulder. I forget who she was. I had Mark Duttle (ph.) from Norfolk Southern industrial hygiene with me. It was the three of us. We kind of left that governor's interaction we'll call it. I went down and I politely and respectfully asked the air modeling person to please review their parameters with me. And introduced myself. And the person was a nice person. Don't remember is name.

I said just -- I'm -- I just want to know your parameters. So he said he had five cars 90 percent full. I said we'll let's start with that. I said you have two cars on the east that never leaked. They're 100 percent full. You have weigh bills that show the weights. So I said respectfully, use that data.

Now you have these other three that have been burning since Friday night. And there's about five of us with a combined 200 and some years of experience that are telling you, from our experience, they're at least half empty. And half is graciously

heavy. They've been burning a long time. So we're going to respectfully ask that your team put three cars at 50 percent and that should be a high number. So he called his boss, whoever agency he was with, and they agreed. They made that edit.

I asked him for the next parameter. What's the next parameter. He said phosgene. I said okay. So what kind of concentration are you picking phosgene. He said 70 percent. And I was like, oh, my. I see the problem. So we said listen, it's less than one percent. And if you inquire with any vinyl chloride producer, they're going to tell you the same thing and we can provide data. And by the time I even got the sentence out of my mouth, the CTH lady had it pulled up and put it right in front of the person. It's absolutely 100 percent fact when you burn VCM, it liberates less than one percent phosgene. Well, less than one percent. That's chemical fact.

So once again, he calls his boss. Gets permission to change it. So he changed that. I said what's your next parameter. He said hydrochloric acid. I said what concentration did you use. He said 33 percent. I said okay. So I'm going to bump you up. Make that 50 percent is what I suggested to him.

Because again, this is from OXY, the people that make the VCM. I had already had this chat with them in the planning days the last 48 hours. So I knew this to be very factual, very readily on my brain because we had just talked to OXY three or four times about these phenomenon.

Because keep in mind, these cars were burning since Friday night. And you could see the HCL in the cloud Friday night. I mean, you could see it in there. The black and the white. So we bumped him up to 50 percent. And the accelerated story, lo and behold, with the revised model with accurate data, it's 1 kilometer by 1.4 kilometers. Whatever they came up with is much more accurate of a model.

So sadly, that information just -- that's factual information. That factual information wasn't used in someone's modeling and it spun up a couple governors pretty hard. So that's kind of a sad reality of all this story here.

But so, you know, my role in that was with Mark Duttle from NS and CTH just really ensuring that accurate data was used for modeling. Timeline thereafter, I'm going to speculate that it was probably within an hour after that, a revised model got funneled through whoever it needed to get funneled through.

And we had to politely and tactfully nudge the governor to say, governor, all due respect, if this is going to happen today, we need to go. We need somebody to authorize us to move because we're losing daylight. We needed three hours to get set up minimum. Maybe four. And we were already at that point, as I recall, like 12:26 p.m. And I remember that because they had a press briefing at 12:30. So we got the green light at like 12:29 p.m. or whatever it was on Monday to go from the commander, from the fire chief.

So we hopped to it. We set that up nothing short of a trot in our spring -- in our step to pull that off before dark Monday night. And it went very successfully. It pretty much went as we planned it. The burn pits worked as exactly how we planned it. We were so proud of that. Kept the fires away from the isobutylene car. It really went off perfectly, frankly. I mean perfect as perfect. It went off perfectly. And that's attributed to Jason Poe, his team, his expertise. My guys, the SRS guys, working as a team. All the prep work. I'm very proud of our team.

So on that note, fires burned just for about two hours-ish when the VCM fires kind of dwindled out. But again, ground fires continued to go through the night and we -- we, as a team, encouraged Norfolk Southern to just let the night play out because everybody is anxious to clear wrecks. You know how that works in a railroad. We encouraged the railroad to just let this stuff residually burn out because if you get in there putting fires out with foam, there could be some residual crap in night air that it would just cause everybody to be in (indiscernible) or whatever. Right?

So they listened. Next day, daylight, new assessment. All readings were pretty favorable. Whoops. Somebody, is this a drop signal or something? Do I need to -- I don't know if we have a pause or --

MR. STANCIL: We'll just pause for a moment while we

reconnect our video feed.

(Off the record.)

(On the record.)

MR. STANCIL: -- for the interruption. I think we have our video feed reestablished.

BY MR. STANCIL:

- Q. If you would, please continue, sir.
- A. No worries. So let's see. Fires burned out through the night following the vent and burn as a good residual -- just let the night air kind of have things burning out versus being extinguished and -- because we still had other cars we had to assess. Right? We still had to get in there and look at that isobutylene car. We had other cars that we still hadn't been able to get into yet for a lot of up close and personal checkouts on them. But the next day would've been Tuesday, wreck-clearing day.

So Tuesday wreck-clearing day, our company personnel, we supported pretty much south side and north side and east side and not so much the west. The west was box cars. I think we might've put a fire truck down there to help them crunch some box cars at some point but for the most part, a lot of those standing cars on the west -- I'm sure many of you know -- there was a cut of cars that really didn't derail. They were just involved in fire.

There was some box cars. I think there was an auto rack.

Those cars had been kind of cut and pulled to the west. So we didn't really prioritize them in our world. We were more worried

about the tank cars and the mess and kind of working through the wreck. And quenching fires along the way. Cooling down cars along the way. Help facilitating the wreck clearing safely, kind of diapering up, and any cars that were breached and dribbling. There was a lot of product dribbling from jackets and things as you can imagine.

So we were doing a lot of that kind of work pretty much all day into the night. What would that be? Tuesday. And it was evening-ish -- it was probably in the vicinity of -- I think by 9 p.m. or so Tuesday night, as I recall, the last covered hopper car was cleared to the north. And we actually purposefully left that car to the end because it was that smoldering, festering resin car that had not been ventilated.

It had a tremendous amount of heat in it at that point because of the -- once we vent and burned it, you know -- it was just kind of an old festering car before the vent and burn but obviously, we burned out what was left of that western VC car and that pretty much got that car extra hot if you know what I mean. It was -- I took a thermal imaging camera to it before the wreckers touched it and it was like 1200 degrees Fahrenheit and it wasn't vented.

So first thing we did on that, we set up a thousand-gallon-aminute -- or actually a 1250-a-minute five-inch gun with 1250 nozzle on it from the south facing north to protect the wreckers and the track operator. And we purposely got a hole, actually a

couple holes pulled open on the vertical. We basically did vertical ventilation on that car because I was very concerned for the wreckers on that. With such tremendous trapped heat, it had a potential for a backdraft explosion if that -- the metal was fatigued on that hopper car. If they would've tugged on it and drug it to the north and if it would've come open -- it was a fine powdery resin. And I was sincerely concerned about a potential backdraft explosion with that car.

So we vertically ventilated it. Drug it to the north. And they cleared up from it. And within a half hour, it went to free burning and it was kind of -- like I say, by expectation and design at that point, and then our nightshift quenched that fire safely.

We finished quenching the fire along with -- let's see, that goes into Wednesday morning. Our teams pretty much suppressed five or six of these residual, what I'll call non-hazlating (ph.) fires that were between the box car of vegetables and the resin cars. There was five or six as a I recall. Between the north side, west side, and east side, we spent Wednesday morning -- we had the last fire midday, like noon, 12:30 was the last of the fires on Wednesday.

And to my knowledge, there hasn't been a single fire since.

I think that's the one thing disappointingly with this isobutylene car we could purge it right here and get it done, but they just -
Norfolk Southern doesn't have any affinity for flaring a car in

this town right now and I understand. Yeah, so that put us to Wednesday.

As soon as fire suppression was done Wednesday, yours truly here pretty much jumped in to help Norfolk Southern environmental managers. Start helping some other things tactically with aeration, blowers in the creeks. We got some -- what I call the jet-ski float machines installed in, I think it's Leslie Run, by the wastewater plant. We have an otter pump down there blowing -- just aerating (indiscernible) organics and adding oxygen for fish. We did that while my guys continued to support wreck -- what I call the tank car cleanouts and things for several days afterwards. And this is where I'm going to be incredibly generally because my men took care of it while I was helping environmental.

But we progressively worked through emptying breached tank cars first. We went after all leaky tank cars. Emptied them.

Ripped jackets off. Cleaned them out. Cleaned and purged cars.

Get them ready for strap. We had -- we have -- we had a shear here. It demobilized Monday. It had to be on another job. But we were helping with the shearing and the demolition process.

So we were progressively working through all those cars to get them emptied, get them cleaned, get them ready for scrap, and that effort continues today. There was one the other day that actually -- they drug a part of a car through kind of a puddle of oil so we had to reclean it but other than that, there's been a

very progressive from our guys, our employees in a lot of areas.

I don't know if you need to go into that detail or not. What all we're engaged in. I don't know how much detail you want but --

- Q. You can continue if you wish. Just tell us what you think is important.
- A. Well, I'd say from the tank car rail safety, I mean, moving forward from this point, kind of the derailment is over at this point. That's why I'm asking. Like, I don't know how much you guys -- maybe it's time for you to guys to ask questions. I don't know. This is the first time I've done. Thirty-five guys. You guys are my first.
 - Q. Well, just want to make sure you've told us everything you think that was important about that initial response to the incident. So you'll -- we'll give you an opportunity -- well, go head if you have more.
 - A. Well, as I say, if you guys have questions, maybe you'll ask a question that'll jog a memory.
- 19 Q. Certainly.

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A. But you guys kind of asked if I got any sleep. I think Mark

-- is it Mark? Mark asked if I got any sleep. I can tell you

that I'm fortunate on this particular wreck, I'm able to go to my

own home at night. I'm about an hour away. So I have been

commuting at night but I usually start at 6 and don't get home

until 10 every night. So I'm napping. I'm doing fine. But is

- there something I may have forgotten to mention? Maybe.
- Q. Well, we'll see if we can jog your memory on a few things just to follow up. And --
 - A. Sure.

- Q. -- at the end, we'll give you an opportunity to tell us anything more that you can think of.
- 7 | A. Sure.
- Q. So going back to what cars were breached, can you give us a list or an outline? And if it would be helpful, I have the -your general worksheet if that was something that you helped produce?
 - A. No, my men produced this. And the one key man is actually in Disney World this week with his family. So I was very blessed for -- up until this past Friday that he -- we were joking that he was me -- my traditional role was while I was in the trenches. I was really heavily engaged in the vinyl chloride pressure cars and that iso car and making sure we were good.

So I'll tell you what I know for fact. The breached cars were the butyl acrylate car. The two ethyl acrylate car. I know there were some propylene glycol car or cars but that's a general -- I'd have to really study this list and get Mike's -- I can certainly follow up with you folks. I mean, I'm sure that our guys captured those kind of data. I have not studied those kind of data yet. But I know from all my intimate walking around and doing what I've done in the last few weeks here, for sure, the

acrylates. I'm 100 percent sure and I can even tell you there's two holes in the one head end of the butyl car. And there's hole (indiscernible) wrinkled and pretty big gaping holes in the two ethylhexyl acrylate car.

Certainly, one of the lube oil cars, maybe two of the lube oil cars. I know one was a double compartment car. At least one of those compartments -- I think both of those compartments actually my guys told me had leaked. Yeah, both breached. Here's that. Yeah. So I'm looking here at his notes. In fact, this is pretty descriptive. I mean, this is Mike's notes. So you're saying our guys gave this to you guys or NS --

Q. Got it from Norfolk. Yes.

- 13 A. Well, this is probably Mike's notes. So let me just kind of --
 - Q. And if there's anything that's changed from those notes, please let us know if you notice anything.
 - A. Well, just to clarify, I see he's -- at least on the VC cars, car did not leak. Cars vented product through PRD and ignited.

 So the point of those notes was there was no VC cars breached.

 None of the vinyl chloride cars breached in the wreck that we're
- aware of. The fires that ensured were out of their protective housings.
 - There's an RACX here, propylene glycol. It's one of the ones that had breached and lost a lot. Now, that was actually an alcohol-type fire. That glycol had some alcohol in its chemistry

because there was that blue flame-ish that we did notice in the ground fires over there.

The diethylene glycol had an (indiscernible) leak. Yeah, so his notes here I'm going to concur -- knowing Mike's professionalism and his notes, I feel that everything written here would be accurate.

- Q. So what was burning? What was creating the pool fire? Imagine that the butyl acrylate was not burning?
- A. Yeah. Ryan Tacharsky and I clearly observed and smelled butyl acrylate in our west/southwest assessment around the back of -- I keep forgetting the name of that company. The big blue building. CeramFab. We walked around the back of CeramFab from that southwest corner. And you could sense a little bit in the air. And as we walked westward to see -- we saw smoke coming from down towards Pleasant Street Crossing. I said why is there smoke down there. Because we weren't kind of putting it together at first. Like, what's burning down there.

So as we were walking down there, we walked into an incredibly strong acrylate and then we looked in between the two tracks and you could see it, about a two-inch deep puddle of chemical laying over there. And the temperature outside that night was like 3 or 4 degrees Fahrenheit. It wasn't water. It was chemical and you could see the -- kind of that temperature change like a cold air breath at night, like a hot air, cold night. It was doing that. Laying in the railroad right away

there.

So you asked what's burning. Again, I'm going to say that this is my general observations from the few days we were offensive in helping with the assessments and safety and clearing the wreck. You had propylene glycol, you had lube oil, you had the two ethyl hexyl acrylate that I believe also played a role in the fire because we never found a lot of that. There was some laying in the car but I think a lot of that burned, too.

So the glycols, the oils, and that two ethyl hexyl acrylate. Oh, there was an ether. There was -- what was that? diethylene glycol monobutyl ether -- they always screwed up that name. Give me a second here. Yeah, monobutyl ether. He has this one as an unknown status. That one had also breached that I think you're going to find. That had a hole in it. Yeah.

- Q. Going to -- back to the discussion about the PRDs, the pressure relief devices, which of the vinyl chloride cars were venting through the PRDs?
- A. I'd have to go back and look at the notes. I'm sorry. I
 don't remember the car numbers like you might know them right now.
- Q. Well, when you talk about from the front to the back or east to west, were all of them at some point venting or --
- 22 | A. At one point, they were all venting and burning pretty good.
- 23 Q. They were?
- A. Yes, sir. Yeah. And I believe there's video that'll show that from those drone flyovers.

- Q. And which one had the most vigorous or violent -- you described how that one --
- A. Yeah, it was cycling. Right, right, right. Hold on. I took a picture of my board here. Let me -- oh, shoot. I'm trying to see if I -- I thought I took a picture of my whiteboard but the picture I have is -- it's an updated board after they showed them as ready for scrap. So if you'll just give me a minute. I'm going to try to dig through some texts.
- 9 Q. Take your time, sir.

- A. I'm going to have to -- I don't -- I'd have to get back to
 you on that. We have notes somewhere but unfortunately, our
 whiteboards (indiscernible) keeping them and I think somebody did
 this and then changed it (indiscernible). So I'll have to get
 back to you.
 - Q. Fair enough. We'll reserve that question for later. You mentioned the cycling of the PRDs. Give me a little idea of the timeline on that. How -- does it happen over a period of time? What's the period --
 - A. It got more frequent. I mean, through the night -- that would've been what? Friday night into Saturday. It would go pretty steady and then reclose and then that frequency got more active Saturday day. Saturday morning-ish. It would go for a couple of minutes. And then get calm. It wouldn't get close. It would just get calmer. It would try to close but obviously, it was leaking. So it was about a two-minute-ish cycle.

Q. So were the PRDs open to the -- they were leaking -- at that point, were they continually open?

A. Well, no, I can't -- it's not all the PRDs, gentlemen. It's pretty much at some point through the night, all -- I mean, everything was burning. I mean, liquid lines, vapor lines. Any sample lines that would've been there. I can't remember if there

But pretty much all service equipment was burned out. All elastomers you could clearly see -- when we could see daylight, you could see the fire was being fed from all components. So that's one clarity. I appreciate the question.

was sample lines on the cars at this point. I'm so tired.

If everybody is kind of tunnel visioned on the PRDs, it was -- when fire -- and this isn't unique to vinyl chloride. This is something we've seen in derailments multiple times. When there's a fire in the housing, inevitably everything, elastomeric seals burn out. They melt out. They burn out. They fail.

So you're going to get that fuel-fed fire from all appliances after the elastomers burn out.

- Q. Can you describe any other experiences you've had with vinyl chloride?
- A. Yes. We've transferred a handful of times for our customers. Car-to-car transfers. No problems. Paulsboro -- some of you may or may not have been involved in Paulsboro. I happen to be kind of the lead hot zone guy for that one where we had to do creative tactics and introduce acetone into the car to get the last residue

1 out. We had to get this last residue out of the car using a 2 carrier solvent. The chemists described it to me -- you're not going to vein pump it out because it's going to keep flashing off. 3 4 You're going to have to do something to put liquid in. absorb in the liquid. Think about marbles rolling around in a 5 6 jar. You pump all the marbles back out. The marbles come with 7 the liquid and then they deal with it at the back end at the 8 chemical plant. So that's what we did. Worked like a champ. But

10 Q. Any other ones?

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11 A. Well, fortunately, there's not a lot of vinyl chloride 12 emergencies. So no.

yeah, I was the lead guy at Paulsboro, as well.

- Q. What about polymerization or polymers that would've been involved in vent and burn? Had there been any incidents that your company has handled?
 - A. Well, keep in mind, the polymers formed are combustible solids like -- basically, plastic. They burn just like the plastic pellets and resins do. So if you're looking for evidence of polymers, they're probably burned up to ash is -- if that's where the question is going. But we know from what we know -- we had (indiscernible) flow. We had stuff that was actively venting and burning that choked itself off. Inside the car, there's only one thing that can do that. And that's polymers.
- 24 Q. Polymers.
- 25 A. That's just fact.

- Q. And after the vent and burn occurred and the fires were going on, were there -- was there any fire burning inside of the cars themselves?
- A. The cars would've burned themselves after that. Once they were emptied and the pool fire happens, then there's like that draft kind of chimney effect of the fire will get back in the car and burn itself out. Yes. That's been our experience.
- Q. And so tell us a little bit more about your interaction with Oxy. You mentioned that you had some discussions with them leading up to the decision to vent and burn.
- 11 A. Yes.

- 12 0. Can you tell us a little bit how that went?
 - A. Well, let's see. Started -- well, I'm not going to guess when it started because I don't remember when it started. They're also one of our mutual customers. I don't remember when the first phone call with Oxy would've occurred. I don't recall.
 - But one vivid call that I can recall would've been Saturday evening. Yeah. Would've been Saturday evening. Myself, Norfolk Southern, including the chief executive officer of Oxy was on the phone. They had a whole posse of people on the phone.
 - So the general gist of that was they wanted to make sure that somebody was doing a model of a blast zone. And somebody had already done that, I believe. But we as the -- what I'll call the hazmat field guys with our fellow hazmat manager of the railroad was there on the call -- we weren't sure who did it or where it

was but kind of felt that it had been done.

So after that call, he made sure that he assigned CTH to make sure that it got done and got it across the finish line. So that was done and it got across the finish line. So that was probably the biggest thing they were concerned about. I think just wanting to know that the fire chief was getting people out of the homes.

And you know, on a note of personal observation, there was a lot of genuine stress from the police chief and the fire chief that people were refusing to leave. And I think that's something that should go on record. I personally observed several briefings where people were refusing to leave. And I believe that to be true.

They were trying to get people to leave and just -- people were saying I'm not leaving my house. You hear the media like they never told us. We told them since Friday night. DOT guidebook one mile. And we told them that throughout the weekend. So -- and I say we meaning Norfolk Southern. I was there and observed the conversations.

So I can tell you I observed stress on the fire chief and the police chief of frustration with those people not wanting to leave. They ramped up those efforts once they knew this was an (indiscernible) and a vent and burn. I think people were starting to wake up to the reality of what we've been saying since Friday night that these cars are at risk of exploding. And I think once they realized like, oh, my God, this really is going to happen and

we're going to not let it happen -- we're going to take control of these cars so that they don't take control of themselves.

So I think then is when they had more success, if you will, moving some people out of their houses. But unfortunately, it took until -- what would that have been -- Sunday evening. I think it was like a Sunday evening night operation to get people out of their houses. That had started Friday night in multiple attempts. Not my department. I was more worried about tank cars. But just sharing with you my personal observations from the unified command post.

MR. STANCIL: Well, thank you. I'm going to let some of our colleagues here ask you any of the questions that they may have and we'll go next to Chief Carey with the IAFF.

BY MR. CAREY:

Q. Thank you, Paul. Drew, thanks for joining us today. I just had a few things. I'm interested in the emergency response end of it. Not just (indiscernible) but what you observed as far as fire department actions, inactions, and things like that.

You mentioned the -- somebody finally used the ERG and come up with that distance. And we know that the ERG, although a very basic reference, is one of the -- the only ones out there that really gives you definitive distances as far as initial isolation, protective action, distances, and stuff like that. And who actually opened up that discussion as far as consulting the ERG?

A. Norfolk Southern hazmat, Scott Deutsch.

- Q. Scott?
- 2 A. Yes.

- 3 0. So Scott is the one that did that.
- $4 \parallel A$. Yeah. Well, he and I together. But --
- 5 Q. Yeah.
- 6 A. -- I work for him so I'm standing by his side. But we
- 7 collectively made sure that they looked at that.
- 8 Q. Cool. And you mentioned this car that you put your hand on
- 9 and it was warm and then you used the tick and you said it was up
- 10 around 1200 degrees.
- 11 A. No, no, no. Different car. Thanks for the clarity. The one
- 12 | I put my hand on was the vinyl chloride car to the west.
- 13 || Q. That was -- that was my question which car that was.
- 14 | A. Yeah.
- 15 Q. That was a vinyl chloride car?
- $16 \parallel A$. That was the single -- the one by itself to the west. And
- 17 where that jacket tear was was on the west in opposite position of
- 18 the hopper car. The hopper car beside it was kind of a
- 19 smoldering, festering car from a pool fire that had been under it.
- 20 | It was --
- 21 0. That was the car with resin. The covered hopper car.
- 22 A. Correct, correct.
- 23 Q. Right.
- 24 A. It wasn't 1200 at that time. I think that's also important
- 25 | to understand.

Q. Right.

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- $oxedsymbol{\mathsf{A}}$. At that time, that was pre-vent and burn.
- $3 \parallel Q$. Right.
- 4 A. So it was a festering car but it wasn't 1200. Just had a
- 5 | little wispy smoke to it.
- 6 Q. So the car that was 1200 degrees, that was the VCM car?
- 7 | A. No.
- 8 0. It wasn't?
- 9 A. It was the resin car.
- 10 0. The resin car.
- 11 A. After we burned off what was left of the VC in that car that
- 12 we're talking about. In other words, the VC when we did the vent
- 13 and burn, that pool fire was inherently at and under part of that
- 14 | hopper car.
- 15 Q. Right.
- 16 A. That kicked off the hopper car, you know, worst combustion.
- 17 So that car wasn't 1200 degrees prior to the vent and burn. It
- 18 was a few hundred as a I recall in my tick. So it was just
- 19 | festering, it was just smoldering. Just kind of a nuisance.
- 20 Q. And who was the fire department incident commander for the
- 21 record that you were working with in the unified command --
- 22 A. Keith -- I don't remember Keith's last name. Keith is his
- 23 | first name. And I'm sorry. I don't remember his last name.
- $24 \parallel Q$. Did you have a lot of interaction with him?
- 25 | A. No. I mean, from a distance across the room, yes. But

again, I'm kind of side by side with Norfolk Southern. I whisper to Norfolk Southern and Norfolk Southern does most of the talking.

- Q. So Norfolk Southern was dealing directly with him?
- 4 | A. Yes.

- Q. And you were in -- kind of in their ear --
- 6 A. Yes, sir.
- 7 Q. -- making suggestions.
- 8 A. Yes, sir.
- 9 Q. Okay, good. Do you feel as though the fire department got good information early on in the incident about the consist and things like that?
 - A. Yes, I do. Because we were the ones that gave it to them.

 We had the wheel report in their building by midnight reviewing it line by line, by line, by line. Now, when you say early on, I don't know how early -- I don't know what they had early form the train crew. I'm not privy to that. I can tell you when we rewound all of their offensive operations to get them safe in the clear, when we rallied up in the garage, there was Ohio EPA, Pennsylvania DEP, EMAs from both Pennsylvania and this local county. Pretty much everybody. And were huddled together working

So again, this media frenzy going on is unprecedented but everybody is claiming they didn't know. I can tell you Norfolk Southern had that information really quick. And every agency knew it. So interagency disconnects probably happened, obviously.

the consist. We were working that wheel report.

- Q. Yeah, they always happen.
- 2 A. But yeah, they had the information. And were working that 3 consist together.
- Q. And how did that go in terms of dealing with the fire department and convincing them it was time to go defensive?
 - A. It was a little fragmented at first. We had to see several white hat officers on scene. We kept getting pointed to that guy. And then that guy would point us to that guy. And that guy would point us to that guy. So that's the honest truth. It was -- they were really -- I mean, again, if it was a commercial structure fire, they had it. They were -- they had an amazing operation for a -- that's the other thing they shared by the way. Their community water system was shit in their words. They had a broken water line. Even on a good day, it's a lousy hydrant system. So
- 16 Q. They did bring in tankers.

they had a tanker task force operation.

- 17 A. Oh, it was amazing.
- 18 Q. Yep.

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- A. But it was like three to four degrees Fahrenheit so they were obviously making hockey rinks, too, right?
- 21 0. Sure.
- A. But they had an amazing orchestrated mutual aid. I give him
 A plus on effort and operations. What I see in my heart from
 jumping on trucks at 14 and what I know from industry, let's put
 it this way, Chief, I know career chiefs that retired and never

- been to a train wreck. Most fire departments are really good at structure fires, rescuing people.
- $3 \parallel Q$. Correct.

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- 4 A. But they have a train wreck like this in their town, they 5 just don't know what they don't know.
- 6 Q. It's a low-frequency high-risk event.
- $7 \parallel A$. That's right.
- 8 0. Yeah.
- 9 A. So once they realized the message, they were incredibly
 10 cooperative to just unwind and pull out and get themselves in a
 11 safe place.
- Q. And their fire extinguishment methods did not involve any foam? It was pretty much water?
- A. It's funny you ask that. I did not see any foam being
 utilized. There were discussions of foam with Scott Deutsch and
 myself and we talked them out of it because it was fluorinated
 foam and because they weren't going to do anything in the big
 picture. Again, they're putting people at risk offensive with no
 meaningful success in a thing. They're not going to succeed here.
- 20 | Q. So you did a risk/benefit analysis on that and decided --
- 21 A. Correct.
- 22 | Q. -- no.
- A. And again, they decided. However, now this is just within this week, someone told me that somebody from NS environmental interviewed the firemen and said yeah, we flowed like 40 gallon of

- 1 fluorine -- fluorinated foam. Don't know when that happened. If
- 2 | it happened before we got here. Maybe that's why the ditch fire
- 3 wasn't burning long. I don't know but I cannot confirm that. But
- 4 | Norfolk Southern managers told me that they interviewed somebody
- 5 from the fire department. Said they used 40 gallon of fluorinated
- 6 | concentrate.
- 7 0. So it's unofficial comment.
- 8 A. Correct.
- 9 Q. And your company, did your company actually do
- 10 | extinguishment?
- 11 A. We did.
- 12 Q. And how did that all work and what kind of resources do you
- 13 deploy for that?
- 14 A. So among our assets in high hazard chemical handling, we also
- 15 | have a very respectable inventory of water moving and industrial
- 16 | firefighting equipment. So we utilized the lake east of town.
- 17 | There's kind of a lake on the south side of the tracks and there's
- 18 | a state park lake on the north side of the tracks. Little bitty
- 19 | lake here. Big lake over there. We have what we --
- 20 (Crosstalk)
- 21 A. -- call otter pumps, floating submersibles. We deployed a
- 22 | floating submersible from the big lake. Ran five-inch pipes
- 23 underneath the tracks to basically make sure their little league
- 24 didn't run out of water.
- 25 Q. High-tech way of doing drafting. Right?

- A. It is. It's not drafting at all.
- $2 \parallel Q$. It's not drafting.

- 3 A. It's floating submersible.
- 4 Q. It's better. Yeah, right.
- $5 \parallel A$. That's right. So basically, we made sure that our water lake
- 6 never dried up. We put seven and a quarter supply line 900 feet
- 7 up to leak -- not leak oil to the State Line Tavern. We had a
- 8 relay engine there, 2,000 gallon (indiscernible) engine there with
- 9 two five-inch relays (indiscernible). We did -- I'll say on the
- 10 vent and burn, while Jason Poe was setting his explosives, we did
- 11 exposure protection lines. We had wetting on an oil tank farm.
- 12 We had wetting behind that tank farm. We had wetting on
- 13 | buildings. We had wetting on a big pile of timber that had been
- 14 placed there. We didn't want timber catching on fire and having
- 15 | another building burn down.
- $16 \parallel Q$. Is that wetting -- is that just water or is that --
- 17 A. That was just water.
- 18 0. -- like a wetting agent like --
- 19 || A. That was just water.
- 20 (Crosstalk)
- 21 A. That was just water during the vent and burn. Just
- 22 protecting exposures so that we didn't let the vinyl chloride vent
- 23 and burn burn down buildings and burn down businesses. So we did
- 24 | that through the vent and burn process. (Indiscernible) talk
- 25 about that.

- So when it came time for wreck clearing the next day, same assets deployed. And then we went into more, I'll call strategically positioned hand lines and ground monitors. So we supported the wreck clearing and --
- Q. Like portable deck guns like --
- 6 A. Portable deck guns. Yeah.
- $7 \parallel Q$. -- and things like that.
- 8 A. Yeah. If you're familiar with industrial DASPIT devices, 9 DASPIT tools.
- 10 Q. Yep.

- A. So we had portable hydro foam nozzles. Mostly that. We used one because ergonomics. I'm a big fan of do this with a big gun versus killing people with hand lines. Right?
- 14 | 0. Right.

- A. So we did that with fluorine-free Versaguard AS100 3x3 which is an all-things alcohol resistant top performing -- it is the top performing fluorine-free foam in the world. So that's what we stock. We have warehouse (indiscernible) of it. That's what Norfolk Southern stocks. And we help surpass like the glycol fires. Like I said, we had some blue flame fires that we were suppressing. So we did use some. It was probably in the vicinity of a couple -- 24-ish, 30 -- 20 to 24 -- I already did this inventory. I think the number came down to 26 five-gallon pails. Something like that. Give or take.
 - Q. Of an alcohol-type foam?

- A. Of an alcohol-resistant fluorine free --
- Q. Alcohol resistant. Right.
- A. No fluorine. And that's -- we did use that as far as supporting the wreck clearing.
- Q. And actually, I applaud you for your restraint when you dealt with the governor's people. And that modeling that was done that
- 7 was incorrect, what was the original thought they had as far as
- 8 distance? Three miles?

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- A. The governor -- I'll chose my words carefully here. He was already pretty spun up when we walked into that room and we had no idea what we were walking into. We were told we were coming here to answer some questions about how did we get here.
 - We thought we were going to just kind of educate the politician so he could please his constituents is kind of what I thought we were going into. And he was more than pissed. And he laid into us pretty good. So pretty much how can you guys justify killing 3,000 people over a 14-mile radius or something.
- 18 0. So it was 14 miles.
- 19 A. Something like that.
- 20 Q. Something outrageous.
- A. Something -- first of all, I would never professionally recommend this if I even thought that was a model. So I respectfully, all due respect, don't know what you're talking about, and then he referred to this model. I said all due respect, I don't even need to look at that and I can tell you

what's wrong. So it was a very awkward moment for me professionally but I stuck to my guns and professionally walked down the hall to the guy doing the model and helped correct it.

We were on -- these cars are not in good shape, folks. We ain't

5 got time to play around.

Q. It sounds like you were looking at two possible outcomes.

Either a bleve or a rapid runaway polymerization which would catastrophically resemble a detonation of that container. Right?

A. Yeah, technically, the bleve, no. Because we weren't in a pool fire anymore. But the polymerization building pressure -- what we observed, what we personally observed when we were getting in there to start pressure gauging and looking closer at cars, we thought we were safe to do so when the pool fires kind of calmed down, the PRDs had kind of calmed down, we thought, okay, let's get our air packs on.

Let's get in there, see what we can see. Let's start looking at where we can burn the stuff in liquid flare. And when that one PRD and again, I know I got to get back to you on that car number, but that one, when it launched -- gentlemen, when it launched -- when it relieved itself, it relieved itself in exponentially more pressure audible -- I mean, that audible pressure relief was significantly louder and stronger and persistent for 70 minutes.

- Q. It's like a jet. Right?
- A. It was -- yeah, it went from -- I mean, keep in mind, when it was cycling before, it was loud. And it was relieving meaningful

- 1 pressure. When it stopped activating I'll say roughly midday that
- 2 day, that 90-minute to two-hour lull when it wasn't activating,
- 3 when it did, it went on with a thunder. And it persisted for 70
- 4 straight minutes. That car was reacting. There's pressure being
- 5 | built up in that car. There was no pool fire under it at that
- 6 point.
- $7 \parallel Q$. And were you watching it with a tick while this is going on?
- 8 A. No, they're jacketed cars. I mean, that's the other thing --
- 9 0. So it's --
- 10 A. Everybody said well --
- 11 Q. -- not good information.
- 12 A. It's not good information. They're jacketed, thermally
- 13 protected, 105, 300s. They had -- there's not a lot you're going
- 14 | to do with a tick other than say yeah, the car is hot.
- 15 | 0. So the --
- 16 A. -- burning.
- 17 $\mid 0$. So the concern was more polymerization versus bleve.
- 18 A. That's correct.
- 19 Q. And was there a concern that some of the material had already
- 20 polymerized and was plugging up the PRDs?
- 21 | A. One-hundred percent. That was exactly our concern.
- 22 Q. Yeah, that's what I would think. Yeah.
- 23 | A. That is exactly our concern, sir.
- 24 MR. CAREY: Great. Well, thank you very much for your time.
- 25 MR. McCARTY: Oh, happy to help.

MR. CAREY: And thank you for your service.

MR. McCARTY: Well, thank you.

MR. STANCIL: Thank you, sir. We'll next move to Sean Lynum with the NTSB.

BY MR. LYNUM:

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- Q. Hi. Sean Lynum. NTSB. Just a few questions for clarification for the record. So when you first arrived on scene or when Scott Deutsch arrived, who did you check in with once you got here?
- 10 Scott Deutsch both had to work to find command. We were 11 directed into a maintenance garage at Leak Oil. And there were 12 EMA, white hat firemen. I didn't get names at that point. 13 were more trying to get the message to please unwind. Please get 14 things wrapped up and out of here. We were trying to spread that 15 message and then we really didn't formalize meeting command until 16 down at the firehouse.
 - Q. Could you briefly describe hot tapping and liquid flaring for the record?
- A. Sure. So hot tapping and liquid flaring is kind of a two
 technique -- they're kind of two different topics. Two tactics.

 So hot taping would be step one because the valves and fittings
 are all burnt out and non-usable. So how do you get liquid out of
 the damaged tank with no valves and fittings to deal with.

Hot tapping is a process of welding a nipple onto the lowest level possible, the liquid space of the car. If you weld a

nipple, there's a hot tapping machine which is a drilling machine with packing to not let the chemical (indiscernible) back out through the shaft on the stem to expose people doing the drilling. We install our own full port ball valve over the nipple. We drill through the ball valve through the nipple, through the car, extract it, and then we basically close the ball valve and now we have control of that liquid in the car.

Then tactically, you can do different things with it. If it wasn't polymerizing, transferring could be an option. However --sorry, phone hast just been ringing off the hook here. So again, something I learned early on in my career, with polymerizable materials that are suspected of polymerizing, the last thing you want to do is put them in another package and send them down the road. Put that problem in somebody else's community, no thank you. Not an option in my book.

So people can speculate all they want. Well, you can add inhibitor, you can suspend a reaction. Like, well, that's all theory and that's not practical out of an inch-and-a-quarter hole when we got three or four other cars at risk here. We don't have time for that. It's not really an option.

So for three scientists they'll tell you it may be able to happen, you'll have three scientists say no. Right? You'll have this -- nobody has time for that in the heat of battle. You got to go with the conservative tactic.

So hot tapping, talked about that. Liquid flaring. So

liquid flaring -- there's two types of flaring. Vapor flaring, liquid flaring. Vapor flaring is truly that. Taking vapor space chemical and burning it in vapor space form. And you're basically doing that to destroy chemical residue and reduce vapor pressure internally.

As we all know now -- or the world seems to know -- when you burn vinyl chloride, you have less than one percent phosgene and HCL production. So it's not something that the industry says, oh, we're just going to flare those ones. It's not an easy decision. If you have the choice, you don't flare it.

In this case, again, tactically, we didn't have a choice. The things were polymerizing in unstable conditions. And keep in mind, folks, we hadn't had a chance to get up close and personal for damage assessment. Scores, welds, we didn't talk about that. Damage assessment on weld seams and all that. Frankly, we never got there because we couldn't get close enough to the cars safely for our own people's safety.

So that's a factor in all this. You take that design build spec and then you put hidden damage in the mix of all this recipe of decision-making.

So back to vapor flaring for the record. Vapor flaring, we do it to burn off residue vapors. We do it to control pressures during transfers like a cryogenic ethylene for example. You would transfer ethylene from package to package with a backside flare keeping the pressure down --

Liquid flaring is where you're physically burning off the liquid product. And we had a 316 stainless steel atomizing burning bar ready to -- we had everything ready to go in staging. We were ready to deploy. So we would atomize the liquid in a spray bar much like they do at industrial fire schools when they burn atomizing simulators for fire. They atomize the propane and butane and throw it out there in atomized form. We were prepared to do that had liquid -- or had hot tapping and liquid flaring evolved here.

But again, with the cars behaving the way they did, we quickly had to rule it out because we were concerned welding in a vapor space potentially -- if one or more of those three cars had burned themselves out, we'd have potentially had our own explosion and potentially killed our workers by welding on an empty car, potentially empty car.

Secondly, had there been polymers, we might've gummed up our system anyway. It's only an inch-and-a-quarter hole. And then you talked about -- well, I talk about. This was part of our thought process. Even if we'd have been okay on Saturday to do that and that PRD would have never went off the way it did and frankly scared the shit out of us and said screw this. We don't have a window that we thought we had. It would've taken hours. We'd have probably been like 12 hours per car. They were worried about two hours of burning. We'd have been burning VC out of an inch-and-a-half hole for a long time.

So that was on the table as -- vent and burn, it goes now, it's done. Liquid flare, all things keep pointing us towards vent and burn. So that's -- I mean, I don't know if I answered your question or not.

- Q. You did. Thank you. Could you explain who CTEH is for the record?
- A. Sure. Center for Toxicology and Environmental Health. I've worked with them for years at wreck sites. They have built their company around third-party neutrality professional people. What I like to describe as PhD toxicologists that don't mind getting in the mud with boots on and helping people in the trenches.

So they help people like us in the trenches to help worker exposure, making sure that if conditions require us to upgrade respiratory protection, that we're aware of it. While we do a lot of our own monitoring every day, it's nice to have them around. Help support our people. So they help us in the hot zones.

They also provide community air monitoring with digital telemetry. They collect data points all around regions and cities. And I can't know exactly how they do it but I pretty much know how they do it. It's a lot of meters that will automatically transmit data every half a second or ever second. Collects data points of whatever that data is. It gets permanently recorded. And they run around and monitor those meters. Make sure they're not getting fouled up with crude, dirt, road dirt, ice, snow, batteries dead. They just make sure that there's continuous

service to those meters. That they're performing functionally accurately with calibrations every day.

Then they also provide true PhD toxicology consults. If people believe they've been exposed, they are my first call. If I've got somebody in my company that claims they were exposed, I have them call CTH and get the right advice. So they probably do more things than that I'm not remembering. But those are the three primary things that they do in these derailment-type scenarios and other industrial fires I've been on with them. They're just a great resource.

Q. Good. Let's see. Last question. Vertical ventilation, could you just briefly explain what that is for the record?

A. Sure. I guess for -- let me go to fire triangle 101, if you will. Heat fuel oxygen to make fire. That resin car had plenty of fuel and a whole load of resin. Finely-powdered resin. That's a whole other deflagration of flash fires and powdered dusty fires. But you talk about confinement. In fact, let's take hazmat out of it for a minute. Let's just go back to just the chief (indiscernible) like residential structure fire. All firemen -- this is one of their risks when they roll into a house fire on an engine company.

They get to a house and it's all buttoned up. Maybe it's wintertime. No windows open and there's a tremendous fire in that house but it's starving for oxygen. So the fire is built, it's built, it's built but then it's starving for oxygen. Firemen come

along, open the door. Big rush of oxygen comes in and the house comes boom, blows out every door and window in the house and firemen go out in the front porch on their house.

So it's called a backdraft explosion. So that's what I was trying to avoid to those wrecking guys that night with that last car. I worked with mechanical all through the day. Three different mechanical people and handoffs. And essentially, we had a plan to just leave that car to the end because of that. We wanted to vertically ventilate it. Give that heat somewhere to go and that way, when they cleared the wreck, if that metal fatigue started doing anything, it would've went to free burning but it wouldn't have exploded on them. So that was what we did that for.

MR. LYNUM: Great. Thank you.

MR. WOOD: Yes, sir.

MR. STANCIL: Next we'll go to Mr. Randy Keltz with the Federal Railroad Administration.

BY MR. KELTZ:

- Q. Yeah, hey, Drew. Just a couple quick questions regarding the venting of the tanks. What point did you note -- or did you note that the three VCM cars, the protective housings were no longer intact?
- A. We noticed that Saturday-ish. The aluminum lids had kind of cooked out. Those aluminum covers.
- 24 O. Yeah.

A. They had kind of melted out through all the fires that night.

- Q. So Saturday morning, when you got a good look at it?
- 2 A. Yeah. I can't remember if it was morning or afternoon but it would've been --
- $4 \parallel Q$. When the lights --
- 5 A. -- Saturday-ish.

- 6 Q. -- were on so to speak?
- 7 A. Yes, sir. Yes, sir. Yep.
- Q. Was there ever any concern about where that molten aluminum went such as into the PRDs to potentially either allow them to remain open or to actually weld them shut so to speak?
- A. I won't say any conscious thought because it was all pressurized outward kind of thing. I think where we found it all during our removing of them with your group or with NTSB group was around the bolts and the low ends. They seem to be all kind of gathered up on -- I guess as the cars were oriented, they seemed to be -- I don't know -- kind of down at the one where the -- like a 2:00 roll, it would've been --
- 18 0. Yeah, pulling in that area. In the space?
- A. Yeah. Because we had to kind of chunk it out to get the bolts out.
- Q. The other two cars that were equipped with the metal protective housing covers, was the observation made that when they were venting, it was actually blowing the ventilation flap open on the top or was the fire coming -- when the PRDs would cycle, was it more of fire coming from out the whole top of the pressure

- 1 housing or was it venting out that flap?
- 2 A. So let me clarify the two. When you say the two cars, were 3 the --
- 4 Q. So there was five car -- five VCM cars total. Right? Three
- 5 of the cars had the aluminum covers on melted away.
- 6 A. Right.
- 7 Q. So there was two other cars. I believe it would've been the
- 8 TILX car that was on its side. It was spring line in front of
- 9 them. And the GATX car would've been equipped with a metal
- 10 protective housing cover. All these cars would've had the
- 11 protective -- a hole in the top of that protective housing --
- 12 | A. Right.
- 13 Q. -- and a flap that covers it.
- 14 | A. Right, right.
- 15 Q. Centrically located over the PRD.
- 16 | A. Right.
- 17 Q. So when they -- when the cars -- when those cars were vented
- 18 or when they were observed venting and burning out of the tops,
- 19 was it noted that they were venting out that flap hole or was the
- 20 | fire coming out from the whole protective housing?
- 21 A. So those two you're referring to never leaked, never vented.
- 22 Q. They never vented?
- 23 A. Correct. They were not on fire. They never vented.
- 24 | Q. So everything stayed calm with those and --
- 25 A. That's correct. Yeah. So that's -- I'm glad you asked that

- 1 question. So they never vented. They stayed perfectly intact.
- 2 But the one of the two took a lot of heat.
- $3 \mid Q$. Yeah. But the GATX saw the brunt of it. Yeah. Because it
- $4 \parallel$ was in the mix with the two OCPX cars that --
- 5 A. Yeah.
- 6 Q. -- were about 1, 2:00 that were actively venting we saw on
- 7 | the drone footage. So -- yeah.
- 8 A. Right.
- 9 Q. The pool fire itself, was -- to the best of your assessment,
- 10 | it was all liquid, right, under the VCM cars -- there was no --
- 11 A. Correct.
- 12 | Q. -- power, no --
- 13 A. It would've been that propylene glycol. I believe some of
- 14 | that monobutyl ether and the two ethylhexyl acrylate all mixed in,
- 15 the lube oils, there was a lot of hodgepodge of stuff that we
- 16 | found in there.
- 17 0. So the solid -- the resin -- that fuel really didn't
- 18 contribute to the pool fire under those cars in any way. It was
- 19 | just -- it was ancillary --
- 20 | A. There might've been some.
- 21 | Q. -- to the derailment?
- 22 | A. It might've been ancillary. Yeah. It was more of those
- 23 | liquids. That's right.
- MR. KELTZ: Perfect. Thank you. That's all I had, Paul.
- 25 | Thank you. Thanks, Drew. Yeah.

- 1 MR. McCARTY: Yes, sir.
- 2 MR. STANCIL: Thank you, Mr. Keltz. Mr. Heidkamp, GATX.
- 3 MR. HEIDKAMP: Hi, we have no questions. Just appreciate
- 4 your recap and your service here. Thank you.
- 5 MR. McCARTY: Happy to help.
- 6 MR. STANCIL: Okay. (Indiscernible).
- 7 BY MR. MECKFESSEL:
- 8 Q. Yeah, this is Dave Meckfessel. I just have a couple quick
- 9 questions. One, you had made mention that they built the air
- 10 model with information that was not real to the situation. Any
- 11 | idea where that information that they were basing that off of?
- 12 Did it come from something? Do you know?
- 13 A. Didn't come from Norfolk Southern or CTH or SPSI. I promise
- 14 you that.
- 15 Q. Right. No, I was just curious.
- 16 A. No, I don't want to speculate. It would've been agencies but
- 17 | I don't know which agencies.
- 18 Q. Then the consist, did anybody -- do you know if anybody went
- 19 | to get the e-consist from the engineers or the conductors in
- 20 the --
- 21 | A. I don't know.
- 22 | Q. You don't know.
- 23 A. I never heard of that and I don't know that answer. I'm
- 24 sorry.
- 25 MR. MECKFESSEL: That's all I have. Thank you.

BY MR. STANCIL:

- Q. I have a couple of follow-up questions and we'll do one more check to see if anyone else does after. Regarding hazard communications, things like placards, was that an issue in locating which cars were which in the pileup?
- A. Yes. And quite frankly, that's not unique to this derailment. Again, I'm 35 years into this industry, into my career. In fact, when I train firefighters on approaching derailments, we make a feature discussion of that. That if you're -- every fireman is going through a basic hazmat awareness. And you go thumbs-distance and placards and stencils and -- but in a derailment, oftentimes, they're getting torn off. They're upside down in the mud. They're burned out. It just -- it is challenging but that's not unique to this derailment.
- Q. Well, tell us about this one where -- what challenges did you experience in identifying which cars were which in the pileup?
- A. So for our own safety, knowing tremendous pool fires, PRDs starting to activate, I am not going to get me or any of my employees in there up close and personal walking the wreck. The old walking the wreck. We're not going to do that in this kind of environment. Right? So we try remote technology. In this case was drones.

And the challenge was smoke, fire, glare, camera glare from orange fire, smoke, dark night, all kind of different -- it was just very limited value. And there was a couple flights done

between Friday night and Saturday morning. State police were to be here at 8:00 with a helicopter. Something happened with that. It turned into an aircraft. Fixed-wing aircraft at 10/10:30 a.m. Nevertheless, it was very helpful. By then, a lot of the pool fires had kind of -- they were still burning but kind of settled down. The smoke was less dense. Saturday daylight.

Again, the one -- there was a few things we got out of that as I recall but the clear one that I really was focused in on was finding that isobutylene car and verifying where it was and what orientation it was in and that was on my mind all night. I was certainly really wanting to know where that car was. So that was incredibly helpful with that overview of a flight surveillance.

Again, there were -- the unnerving knowing that these cars were in there and knowing that no human being need to be flirted around there up close and personal, just any purposefully entries than more than necessary. And so the more remote surveillance we could do, the better. And that's what we tried to do.

- Q. At what point did you feel confident as to what cars were involved in fire, which were breached in terms of which hazardous materials were you dealing with out there?
- A. Really only in the wreck clearing frankly. We knew the VC cars were burning from the protective housings. The -- that's where all the clear evidence of the heavy black smoke with the white HCL -- we could clearly see it. It was the white separating HCL and the smoke coming out of three burning VC cars. The pool

fires were not liberating HCL.

them as we got to them.

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- Q. What records did your company maintain as to things like car pressures, temperatures? Was any of that recorded?
- 4 A. Only on the two cars that we mentioned. The VC car on the 5 east that we were optimistic wasn't too badly flame impinged.
- Like I say, paint singed but not in a pool fire. And this
 isobutylene car. And that was it because everything else was kind
 of already breached. We -- when we -- the general service cars
 like the lube oil cars and the propylene glycol cars, we assessed
- Q. If I were to send you a request for any written documentation, what would you have?
- A. Probably what you already have, sir. This table from

 Mike Klein this is pretty thorough and I think the one we could

 update would be the one that he shows as pending confirmation or

 something he put here. But that one with that monobutyl ether,

 I'm 99.9 percent sure that it had been leaked, it had leaked.
- 18 Q. Is there -- would there be anything else?
 - A. No. And the -- we were just so heavily engaged in playmaking. We just didn't -- I just -- I mean, I -- we just didn't -- we were so engaged in getting it done that he just didn't take a lot of notes. This was more of our internal organization for our own notes. This is -- as I'm learning about this moving forward, this could be maybe I can teach them moving forward. Like, okay, let's just maybe expand on these notes a

little bit next time. But honestly, this has been -- this is more of our organizational worksheet for us as we work through the transfers, clean and purges, is really what this initiated to be for. It was more for us.

MR. STANCIL: I almost forgot about our folks online here.

Let's go to Mr. Lawler with Trinity. Do you have any questions,

Mr. Lawler?

MR. LAWLER: No, sir. I don't. I do appreciate your efforts facilitating the inspection yesterday.

MR. STANCIL: Thank you, Mr. Lawler. Mr. Dougherty with the NTSB.

MR. DOUGHERTY: Yes, sir. I do not have any questions.

MR. STANCIL: Anyone else in the room have any questions that needs to be answered? No. Okay.

MR. MANYEK: Can I ask one.

MR. STANCIL: Identify yourself.

BY MR. MANYEK:

Q. Oh, my name is Pete Manyek with GATX. I noticed when were looking at the nozzles that were removed the cars, you mentioned that the Trinity and the GATX cars did not breach at all. And -- but out of the top of the valves on the GATX car, I noticed there was more of a fire and part of the vacuum safety valve was blown off the top.

Was that the car that was the 70-minute fire or -- because you mentioned one had more of a catastrophic blow out in the

- 1 pressure relief valve.
- $2 \mid A$. I apologize. You caught me with a tired brain. And when you
- 3 say the one that had part of the PRD blown off the top --
- 4 0. Yes.
- 5 A. -- you're saying that was which car?
- $6 \parallel 0$. The GATX car.
- $7 \parallel A$. And we're saying that was the one that was --
- 8 Q. Yeah. And all the valves in that housing were melted, as
- 9 well, more predominantly than the others.
- 10 A. So that was one -- and I'm going to ask you guys. Was that
- 11 the second one in from the east? Would that have been in sequence
- 12 second one from the east? Do you know?
- MR. STANCIL: No. The GATX car would've been the fourth
- 14 | one --
- 15 A. Fourth one from the east.
- 16 Q. Yeah. Pardon the scribbling on that. That's my notes from
- 17 | before I formalized that overlay that it has all the cars
- 18 | identified on it. And are we -- it should be up towards the top
- 19 of the sheet.
- 20 A. So would it have been GATX 950098?
- 21 UNIDENTIFIED SPEAKER: Yes.
- 22 MR. McCARTY: So that was one that burned. Looking at this
- 23 orientation. The OCPX 80179 also was one that burned. The OCPX
- $24 \parallel 80235$ is one that did not burn and did not leak.
- 25 MR. MANYEK: Could you repeat that? The OCPX --

MR. McCARTY: So -- okay, from the east -- there's one out of view here. And maybe you can help me. Is this that car -- I don't know who I should ask but -- would this be this car?

MR. STANCIL: That's the TILX car, the -- that would be the lead -- you're pointing to the lead VCM car which would've been the TILX 402025.

MR. McCARTY: So TILX 402025 did not leak. And only took this, what I'll call, paint burned off damage from this west end of this car.

MR. STANCIL: And when you say not leaked, you mean the pressure relief device did not actuate?

MR. McCARTY: Correct. It had no indication of leaking. No fires, no leaks. The car just west of it, perpendicular here, this OCPX 80235 did not leak. But did have significant heat from all the fires. It was definitely in the mix of the fires but it showed no signs to us that it ever leaked.

BY MR. MANYEK:

- O. And no visual observation of it venting anything?
- A. That is correct. And I believe if you found two lids that were still intact, it would've been those two cars.
- Q. Correct. Well, it'd have been -- the OCPX cars were equipped with aluminum so that's why there's no cover on.
- 23 A. I see.

Q. Yeah. And the other OCPX is off of this photo. So TILX did not vent. It was on its side. Did not vent.

- 1 | A. Correct.
- $2 \parallel Q$. OCPX -- what's the number on that one again, Drew? I --
- 3 A. 80235.
- $4 \parallel Q$. You're saying that one did not vent/leak, as well?
- 5 A. Correct. These two were clearly burning from their
- 6 protective housings.
- $7 \mid Q$. 80179 and then the GATX?
- 8 A. The 95098. Yes, sir.
- 9 Q. And then the --
- 10 A. And then the one down --
- 11 Q. -- OCPX that's off -- yeah, it's off this --
- 12 A. That's correct.
- 13 | Q. Yeah.
- 14 A. Yeah, down on the west end. That's correct.
- 15 Q. It was venting, as well?
- 16 | A. Correct.
- 17 MR. MANYEK: Perfect, thank you.
- 18 MR. McCARTY: Whose was this?
- 19 MR. MANYEK: That's mine. Yeah. Thank you for clarifying.
- 20 MR. McCARTY: No problem. Thanks for the question.
- 21 MR. STANCIL: Thank you. Does anyone else have any questions
- 22 | before we end the interview? One last or maybe two last
- 23 questions. Is there anything else that occurs to you that you
- 24 | think we should know about?
- 25 MR. McCARTY: No, I think -- I don't want to pretend to know

how you guys do your thing but I've watched you do it for 35 years remotely and I appreciate everything you guys do. So this was my pleasure to try to help the cause. So this was the first time in 35 years in my career I've been interviewed like this. So I hope something I've offered was helpful for you.

MR. STANCIL: Well, we certainly appreciate your time. I know you're a very busy person out there and a very critical person to the success of this remediation and we appreciate that. Is there anyone else that you know of that you think we should talk to?

MR. McCARTY: I mean, my guy Ryan Tacharsky was with me in the first early entries but after that, I mean, I don't know that he would have anything more than what I've already shared. You'd be more than happy to talk with him but I mean, after that, I think it's -- I feel 100 percent in what I've shared with you is pretty vivid memory. If it was something I'd be -- general, I'd tell you general. Like I say, I'm not good on exact times, the moment in time other than certain things like the governor but that was a first for me. But yeah, just unfortunate there that he got spun up for bad intel. But anyway --

MR. STANCIL: Well, thank you for your insight. We appreciate your time, Mr. McCarty. It's 11:07. And we'll go ahead and end the interview. Thank you, sir.

MR. McCARTY: Thank you, all.

(Whereupon, at 11:07 a.m., the interview was concluded.)

CERTIFICATE

This is to certify that the attached proceeding before the

NATIONAL TRANSPORTATION SAFETY BOARD

IN THE MATTER OF: NORFOLK SOUTHERN TRAIN DERAILMENT

IN EAST PALESTINE, OHIO

ON FEBRUARY 3, 2023

Interview of Drew McCarty

ACCIDENT NO.: RRD23MR005

PLACE: East Palestine, Ohio

DATE: February 23, 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.

Katie Leach Transcriber



Washington, D.C. 20594

Transcript Errata (10f-4)

TABLE OF CORRECTIONS FOR TRANSCRIPT INTERVIEW WITH: DREW MCCARTY, SPSI RECORDED ON FEBRUARY 23, 2023

RRECTED WORDING
and products, we would work the
arge fire department deployment
al information available
hazmats & combustibleswe had
e as the team had the wheel report
n around the back of blue building
eblo (TTCI at the time)
ng record"
cars
th significantly more pressure when

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

	Initials
Drewmccarry	
Printed Name of Person prov	iding the above informatio
	-
Signature of Person providing	the above information
3/27/23	
Date	•

NO CORRECTIONS NEED.



Washington, D.C. 20594

Transcript Errata $(Z \not\in Y)$

TABLE OF CORRECTIONS FOR TRANSCRIPT INTERVIEW WITH: DREW MCCARTY, SPSI RECORDED ON FEBRUARY 23, 2023

		MECONDED ON FEDRE	ANT 23, 2023
PAGE NUMBER	LINE NUMBER	CURRENT WORDING	CORRECTED WORDING
17	12	cars thatso let me	that may be polymerizing
17	13	talkingliquid flaring	about is hot tapping and liquid flaring
17	19	offlammable	of vinyl chloride is that it has
17	20	of it all was	of it was what we were most
18	23	sink.	heat sink.
18	25	from science	from science and the product SDS
19	6	entering the car	evacuating the cars to a burn pit
19	12	guys, we're	guys were coming
21	5 and 7	PRD	PID did detect
22	5	took a gloved hand	took off my glove from my hand
22	10	Charles Phil	Charles Filby
26	11	Duttle	Dudle
27	7	picking	putting in for
28	8	that information	that initial modeling information just was not factua
29	2	in our spring	with a spring in our steps
29	19	(indiscernible)	SCBA or at least APR's of whatever PPE

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

DEEN MCCART	4
Printed Name of Person pr	oviding the above informatio
Signature of Person provid	ing the above information
3/27/23	
Date	

Initials

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Transcript Errata (3 + 4)

TABLE OF CORRECTIONS FOR TRANSCRIPT INTERVIEW WITH: DREW MCCARTY, SPSI RECORDED ON FEBRUARY 23, 2023

PAGE	LINE	CURRENT WORDING	CORRECTED WORDING
NUMBER	NUMBER	COMMENT WONDING	CORRECTED WORDING
31	18	that car extra hot	that covered hopper car extra hot
32	16	non-hazleting	non-hazardous
33	13	generally	general
33	18	strap	scrap
34	11	guys	years
36	14	of	of look it over.
36	17	he'sat least	he's noting at least
36	21	ensured	ensued
38	11	they	1
38	22	they were all	Three in the pool fires were venting and burning
39	12	(indiscernible)	get updated
39	13	(indiscernible)	as information became available and updated
41	21	(indiscernible)	active flows and then choked off flows
43	22	(indiscernible)	reality requiring vent and burn operations
46	18	tick	TIC (Thermal Imaging Camera)
47	12	we are the ones	we (NS team) are the ones

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

Initials		
DREW MCARRY		
Printed Name of Person providi	ng the above information	
Signature of Person providing th	ne above information	
3/27/23 Date		

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Transcript Errata

(4 of 4)

TABLE OF CORRECTIONS FOR TRANSCRIPT INTERVIEW WITH: DREW MCCARTY, SPSI
RECORDED ON FEBRUARY 23, 2023

		NECORDED ON FEBR	UART 23, 2023
PAGE NUMBER	LINE NUMBER	CURRENT WORDING	CORRECTED WORDING
50	23	league	lake
54	1	what's	It's
55	7	tick	TIC (Thermal Imaging Camera)
54	18	That's correct	That's correct at that time after pool fires were out
57	23	thisnobody	debate and
61	15	fuel and a whole lot of resin	resin fuel and a whole lot of heat
61	25	built, its built	building, and it's building and starving for oxygen
74	11	Tacharsky	Tokarski

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

NO CORRECTIONS NEED.	
	Initials
DREWMCGARTY	
Printed Name of Person providi	ng the above information
_	
Signature of Person providing th	ne above information
3/27/23	
Date	