



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

GROUP	G
EXHIBIT	
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Agency / Organization

NTSB

Title

**Interview Transcript – Paul Thomas
Vice President, Health,
Environment, Safety, and Security,
Oxy Vinyls LP, May 5, 2023**

UNITED STATES OF AMERICA

NATIONAL TRANSPORTATION SAFETY BOARD

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Investigation of:

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NORFOLK SOUTHERN TRAIN DERAILMENT

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IN EAST PALESTINE, OHIO

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Accident No.: RRD23MR005

ON FEBRUARY 3, 2023

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Interview of: PAUL THOMAS, Vice President, Health, Environment,
Safety and Security
Occidental Chemical Corporation

Via Microsoft Teams

Friday,
May 5, 2023

APPEARANCES:

MARC DOUGHERTY, Hazardous Materials Accident
Investigator
National Transportation Safety Board

RUBEN PAYAN, Investigator-in-Charge
National Transportation Safety Board

PAUL CAREY, Chief (ret), Boston Fire Department
On behalf of the International Association of Fire
Fighters

RON LAWLER, Senior Director, Mechanical Services
Trinity Industries

ROBERT WOOD, Assistant Manager, Hazardous Materials
Norfolk Southern Railway

KARENANNE STEGMANN, Vice President, Supply Chain
Oxy Vinyls

MARK FARLEY, Esq.
Farley & Partners, LLP
On behalf of Paul Thomas

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I N T E R V I E W

(10:02 a.m.)

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3 MR. DOUGHERTY: Good morning, today is May 5th, 2023 and the
4 time is 10:02 a.m. This is a Microsoft Teams interview that is
5 being conducted in connection with the Norfolk Southern Railway
6 train derailment in East Palestine, Ohio, which occurred on
7 February 3rd, 2023. The NTSB number is RRD23MR005. This is an
8 interview of Mr. Paul Thomas of Oxy Vinyls. Mr. Thomas, if you
9 could, please spell your last name and state your current job
10 title.

11 MR. THOMAS: Sure. Last name is T-h-o-m-a-s, Thomas, and
12 current job title is Vice President of Health, Environment, Safety
13 and Security for OxyChem.

14 MR. DOUGHERTY: Thank you. Mr. Thomas, do you understand
15 that this video is being recorded?

16 MR. THOMAS: I do.

17 MR. DOUGHERTY: Great. So the purpose of this investigation
18 is to improve safety, not to assign fault, blame, or liability.
19 Our sole mission is to improve transportation safety and prevent
20 accidents. As such, the NTSB cannot offer any guarantee of
21 confidentiality or immunity from any legal proceeding by any other
22 agency, whether it's state, local or federal. Witnesses have the
23 option for one representative of their choice and do you have a
24 representative with you today?

25 MR. THOMAS: I do.

1 MR. DOUGHERTY: And representative, if you could state your
2 name and who you are with.

3 MR. FARLEY: Yes, good morning. My name is Mark Farley and I
4 am a partner with Farley & Partners, LLP.

5 MR. DOUGHERTY: Great. Thank you for that. So before we
6 start the interview and questions, I'd like to go around the room
7 and introduce ourselves. If you could please spell your last
8 name, who you are representing, and your work title. I'd like to
9 remind everyone to speak clearly for the recording and
10 transcription. So we have the interviewee. If we could start
11 with Mr. Payan, please.

12 MR. PAYAN: Yes, good morning. My name is Ruben Payan,
13 P-a-y-a-n. I'm the NTSB ICC for this accident. Thank you.

14 MR. DOUGHERTY: Chief Carey.

15 MR. CAREY: Good morning, everybody. My name is Paul Carey,
16 last name is C-a-r-e-y. I'm a retired Boston Fire Department
17 district chief and hazmat operations chief and I'm here on behalf
18 of the International Association of Fire Fighters.

19 MR. DOUGHERTY: Great, thank you.

20 Mr. Lawler.

21 MR. LAWLER: Ron Lawler, L-a-w-l-e --

22 (Audio malfunction.)

23 MR. DOUGHERTY: I'm sorry, Ron, could you repeat yourself
24 again?

25 MR. LAWLER: Ron Lawler, L-a -- r, Trinity leasing, in

1 mechanical services.

2 MR. DOUGHERTY: Thank you, sir.

3 Mr. Wood.

4 MR. WOOD: Robert Wood, assistant manager, hazardous
5 materials, Norfolk Southern Railway. Last name Wood, W-o-o-d.

6 MR. DOUGHERTY: Thank you. And we got Mr. Mark, as well, and
7 then Karenanne, please.

8 MS. STEGMANN: Yes, good morning. Karenanne Stegmann,
9 S-t-e-g-m-a-n-n, Vice President, Supply Chain, for Oxy Vinyls.

10 MR. DOUGHERTY: Okay, great. Thank you.

11 And myself, my name is Marc Dougherty, spelling of my last
12 name is D-o-u-g-h-e-r-t-y, and I'm a hazardous materials accident
13 investigator with the National Transportation Safety Board.

14 All right, Mr. Thomas, we welcome your responses in your own
15 words and if you have any question that is unclear or you don't
16 understand the question, please ask the questioner to clarify or
17 restate the question. And if you don't know the answer to any
18 questions, it's fully permitted to indicate that you don't know.

19 MR. THOMAS: Right.

20 MR. DOUGHERTY: We don't want you to speculate.

21 MR. THOMAS: Will do. Will do.

22 INTERVIEW OF PAUL THOMAS

23 BY MR. DOUGHERTY:

24 Q. So Mr. Thomas, if you could tell us a little bit about your
25 background and expertise and experience, please.

1 A. Sure. So I'm a chemical engineer by degree and I've been
2 with Occidental Chemical for 29 years, a little over 30 years in
3 the industry, I had a year and a half of co-op experience before
4 joining Oxy, but my history with OxyChem is 25 years of
5 manufacturing, so I worked at 10 different facilities, all on the
6 Gulf Coast, you know, inside the fence. So from our Muscle Shoals
7 plant in North Alabama to Taft, our Geismar facilities, too, in
8 Louisiana. Ingleside, I was plant manager over that facility,
9 that's in the Corpus Christi area.

10 Then I had responsibility for five sites in Houston, which
11 include all of our technologies there, so you get both the
12 chloralkali and the PVC and the VCM facilities in Houston, and I
13 went through manufacturing director for a short spell, a few
14 months, with responsibilities for our chloralkali technologies and
15 then had the opportunity in 2019 to take on this role as the vice
16 president of HESS for OxyChem. And I also have business unit
17 responsibilities for government affairs and communications, so I
18 interface with the corporate folks who run those areas on OxyChem
19 for all of these in that space.

20 So that's kind of what I do and as HESS VP, certainly the
21 emergency response folks, we've got a director in my group who
22 manages safety, industrial hygiene, emergency response, he has an
23 emergency response manager that works for him. Also product
24 stewardship, you know, is in my group. So that's kind of my role
25 right now and certainly, our engagement with -- with the incident.

1 Q. Okay, thank you, I appreciate that.

2 A. Sure.

3 Q. And so how long have you been in your current position?

4 A. Four years, 2019, yeah.

5 Q. All right, great, thanks.

6 A. It flies. It flies.

7 Q. Yes, it does. And so who do you currently report to?

8 A. Neil Ackerman, he's the president of OxyChem.

9 Q. Okay. Great, thank you.

10 A. Sure.

11 Q. If you don't mind, I'm just going to pull my other screen up
12 here. One second here. So again, I just have a series of
13 questions for you.

14 A. Sure.

15 Q. Again, if you don't know the answer, you don't know, or --
16 don't want you to speculate.

17 A. Absolutely, yeah.

18 Q. Okay, great.

19 A. I'll help as much as I can, but if I get beyond myself, for
20 sure.

21 Q. Right. So regarding the East Palestine derailment and the
22 five Oxy Vinyl cars that were involved in the derailment --

23 A. Yes.

24 Q. -- and the vent and burn, as well, can you tell me what role
25 that Oxy played in regard -- with regard to the East Palestine

1 derailment on the VCM cars?

2 A. Yeah. So per our procedure, Marc, our emergency response
3 procedure, you know, we -- if we have an incident that happens
4 inside of our fence, you know, the manufacturing facility will
5 trigger their emergency response team and then, you know,
6 depending on the magnitude of the incident, you know, the
7 corporate special situations team will also be triggered. We
8 follow that same approach for events where we have product in
9 shipment.

10 Where other folks are the primary drivers and have the
11 primary responsibility, we send folks to provide technical
12 information on our products so that the decisions that are being
13 made can be as best informed as possible. So our role in this
14 incident was to provide as best insight as we could to the folks
15 on the ground, SPSI, and others on, you know, our products, things
16 to consider as they try to navigate through the response.

17 So that's our role in this case. Certainly, when we're the
18 primary owners inside the fence, you know, it's a different level
19 of a response, but that's what we do in these cases and that's
20 consistent, that's -- we've followed that same approach with other
21 products and other scenarios where we're there to provide
22 technical guidance on our products to help inform the decisions.

23 Q. All right, great. Thank you very much for that.

24 A. Sure.

25 Q. So did Oxy Vinyls have a say in the actual decision to vent

1 and burn the VCM cars involved in the East Palestine derailment?

2 A. No, we did not.

3 Q. Thank you for that. So with regard to Oxy's technical
4 support to the VCM cars, could you walk us through, to the best of
5 your recollection --

6 A. Sure.

7 Q. -- from the initial notification of the derailment that were
8 involving your products up to -- through the discussions leading
9 up to the vent and burn, if you could, please?

10 A. Yeah, absolutely. So I think the initial word came in
11 Saturday morning through Tim Kelly, who, I mentioned earlier, is
12 in the group and, you know, I think initially it wasn't clear that
13 our cars were as involved as they were and so I think a little
14 later we -- there was a revelation that no, our cars were involved
15 in pool fires and it was significant and at that point, the
16 special situations team here in Dallas was triggered and I think
17 there was a group of about nine folks who responded, I'm going to
18 say around noon-ish up here, to start getting up to speed on the
19 issue.

20 So those folks would be our director-level personnel, they're
21 manufacturing directors or technical director, several directors
22 from HESS, including Joey Smith and Chris Krishna and then
23 Tim Kelly, as well. So also, we have communications folks that
24 are brought in at that point. So then we planned Saturday, as
25 they were getting information on, you know, the status, engagement

1 of our cars, as that changed, we had set up a call for later
2 Saturday evening. So I'm going to say maybe it was around 6:00
3 p.m. or something like that, we had a call that included SPSI, you
4 know, on the call, and then Jon Simpson with Norfolk Southern, I
5 believe, was on and that was our first engagement, you know, with
6 the folks on scene, as it grew, I'll say, with the folks in Dallas
7 participating. And there were several people that called in, like
8 myself, from -- you know, from afar, not here in the special
9 situations room, so I think we had four executive staff folks who
10 called in to participate and, you know, that's where the -- that's
11 where the conversations, you know, regarding what was happening on
12 the ground started.

13 Q. Okay. And so can you tell us a little bit about those
14 conversations and what type of information was relayed?

15 A. Sure, sure. So from what I remember Saturday, the things
16 that stick out to me was SPSI was, you know, describing the
17 conditions of the cars, again, specific to the VCM cars with us,
18 right, but they were talking about, you know, the magnitude of the
19 fire and saying you got a lazy fire, it just don't -- the rupture
20 devices are, you know, venting as jetted flames; when they vent,
21 you know, they're in a pool fire, significant.

22 So there was a lot of description, us not having eyes and,
23 you know, ears on the ground, they were kind of walking us through
24 what they were seeing there, right? And I think the thing that
25 stuck out the most to me about that conversation, or maybe the

1 most relevant, is that SPSI indicated that they were -- they were
2 gathering materials, as I remember, to do a hot tap and flaring
3 and they mentioned that as they were, you know, getting ready to
4 do that, one of the cars in the pool fire had -- had acted
5 abnormally, from their perspective, and it gave them pause and
6 that was the first that I heard about, you know, polymerization
7 concerns from their perspective.

8 And what I remember them describing on that one particular
9 car and the reason for their pause was that it had been venting
10 like 30 seconds every 2 minutes through the evening, I want to
11 say, you know, it was like an 8- to 10-hour window they were
12 saying it had been going on for, if I remember right. So
13 significant, you know, venting. And then it kind of subsided a
14 little bit and it stopped that and then it vented for another like
15 60 minutes straight. And so, you know, as the individuals go on
16 to do hot taps and other things close, close on the -- on the
17 railcars, you're -- you know, you're going to give pause to that
18 and so that was a concern.

19 And, you know, at the time, we've got to talk through that.
20 You know, my specific feedback to them was -- well, they asked
21 about polymerization, you know, being the reason for, you know,
22 that delay and then 60-minute flare and what I remember saying was
23 well, I think it's extremely low probability that it's
24 polymerization. It's more likely that it's either the railcar
25 responding, you know, as it needs to through the PRD or, you know,

1 it could be something mechanical with the PRD. At this point, you
2 know, I don't know how many iterations of venting that is, but
3 it's been flexed a lot in that 10 hours. So that was the feedback
4 we gave them then and then, you know, we're trying to think
5 through -- I remember asking questions about -- it was clear they
6 were worried about something going on inside the car that they
7 couldn't see, which is very legitimate considering keeping
8 everybody safe at this point. So the focus was how do we -- you
9 know, how do we figure out if there's anything going on inside the
10 car, how do we make them comfortable with that.

11 And so we started talking about hey, even though it seems a
12 little absurd to talk about taking temperatures in a pool fire,
13 we're like hey, can you -- can you use thermal -- I asked them
14 about a thermal scan, you know, we do that on electrical equipment
15 and so I said look, if you can take a temperature on the car, then
16 you'll know exactly what's happening inside the car.

17 You know, I'm telling you, I think it's extremely low
18 probability, but you need to know because you're going to have
19 folks up there, so if it's -- if you can go get a temperature,
20 then you'll know what's happening. It's a very exothermic
21 reaction, extremely exothermic polymerization reaction, and so
22 there's no way for that to be going on without it leaving a
23 signature in temperature, if you can get one. So that's kind of
24 what I remember about Saturday evening, you know, and the
25 conversations about that one car and then, you know -- you know,

1 how you know if polymerization is going on, you got to get a
2 temperature. Now, whether or not, you know, it was safe for them
3 to do that and at one point, you know, we -- they got to figure
4 that out, but there's no way for polymerization to be going on
5 without leaving a signature stamp, as exothermic is VMC
6 polymerization is. So that was kind of the gist.

7 Q. Okay.

8 A. That was Saturday evening and then, you know, we had a call,
9 I think, early Sunday morning, about the same number of folks, I
10 think one or two people changed out on our end, and I think
11 Scott Gould was the Norfolk Southern rep on that call and then one
12 of our former senior VPs of manufacturing was on Saturday's, he
13 wasn't on Sunday's, but we had our current senior VP of
14 manufacturing on the Sunday morning call. So there were a few
15 minor people changes like that, but I think, collectively, for the
16 group it was, you know, the same folks and about the same numbers.

17 Q. Yeah, okay.

18 A. And then kind of to follow that call on Sunday, the relevance
19 of kind of new folks on the call, too, is again, SPSI started
20 talking about polymerization, you know, concerns and one of the
21 individuals that wasn't on Saturday's call, who was our senior VP
22 of manufacturing, was on the Sunday morning call and he heard the
23 conversation on polymerization and I think he kind of asked hey,
24 what are we talking about, you know, polymerization for and then,
25 you know, recognized he wasn't on yesterday's call, right, so he

1 had to catch up a little bit. And then they talked through some
2 of that and, you know, I think he said well, you know, something
3 to the effect, you know, polymerization's not occurring, there was
4 some more conversation and then he said, you know, let me be
5 clear, polymerization is not occurring. Then he said my point is
6 we're not there, we can't see what you see.

7 I think there had been discussions about the vent and burn at
8 that point in the call and he's like we don't see what you're
9 seeing, we don't -- we're not on the ground with you, so if you're
10 talking about a vent and burn decision, don't do it because of
11 polymerization, because polymerization is not occurring, that was
12 the gist. So he was just trying to communicate vent and burn may
13 have other motivators for it, but don't do it because of
14 polymerization because it's not occurring and he was pretty
15 absolute with that statement.

16 Q. Okay, thank you for that. So you mentioned thermal imaging,
17 was thermal imaging actually used, do you know, on scene?

18 A. I don't think so, I'm not aware of it, Marc. It was just,
19 you know, we were trying to spitball a way for them to figure out,
20 you know, how to get a read on it or anything inside the car --

21 Q. Um-hum.

22 A. -- that's escalating and I think it was just, you know, a
23 temperature --

24 Q. Okay.

25 A. -- gun is my understanding, you know, eventually, when they

1 started taking them. But I can't answer with a hundred percent
2 confidence, that's my assumptions based on the numbers we saw.

3 Q. Okay. So let's talk about the conversations and the
4 discussions --

5 A. Sure.

6 Q. -- from internal, where you were at your headquarters there
7 or wherever it was, from Oxy --

8 A. Um-hum.

9 Q. -- to on-scene members. Can you tell me who was involved in
10 those discussions? When that information that you just -- that
11 you just stated was relayed, can you tell me who was in those
12 conversations on the ground?

13 A. Yeah, sure. The same, the same groups. So Sunday night,
14 once -- I should've mentioned that, you know, part of our response
15 was a historical response, that we send folks to the scene, as
16 well, because again you're handicapped from afar on the details
17 and so we sent, as you're aware, three folks to provide the same
18 technical insight on the ground to help facilitate the decisions.

19 So Steve and team, Steve Smith and team showed up Sunday, I
20 think, had initial conversations with the folks on the ground, you
21 know, he has a better part in the other conversations, and so then
22 we have a call with Steve Sunday evening and it's the same groups.
23 And so Steve's bringing back the questions that he got, you know,
24 when he showed up, which is some of the same things, you know,
25 hey, polymerization. I think they actually, you know, had the

1 temperature, first temperature data that we're aware of Sunday
2 afternoon. And so, you know, Steve comes back to the group and
3 says, you know, hey, there's questions about polymerization and
4 here's some temperature data and I think he described -- you know,
5 Steve walked through the data that he knew at that time, I think
6 the first car, maybe it was the TILX, was at 60 PSI, and I think
7 they had a couple data points --

8 Q. Okay.

9 A. -- where it had been there for a period of time, you know,
10 the three railcars that are in the pool fire were, you know, 30 to
11 50 PSI, 60 to 85 degrees Fahrenheit, and then there was one car,
12 I'll call it the railcar of concern, it was at a hundred and 35
13 degrees, maybe, with the first temperature. And so, you know, he
14 brought that back and he was asking about hey, you know, they're
15 asking about polymerization, what does that look like, and we
16 talked through, you know, the fact that the car on the end, you
17 know, wasn't in the pool fire, it certainly had warmed up, they're
18 jacketed, they're insulated.

19 We talked about a hundred and 35 degrees being half of the
20 relief device pressure, you know, it's sitting at a hundred and 20
21 PSI and the relief device at 247. So, you know, certainly it
22 warmed up, but it wasn't even at the same temperatures of the ones
23 that had been relieving for, you know, 12 hours. Those railcars
24 were staying in the 185 to 200 degree range in order to lift the
25 PSVs on them, right? So yeah, we talked through all that and, you

1 know, he got really comfortable, yeah, that makes perfect sense.
2 And so then he went back and had a conversation with SPSI, you
3 know, again reiterating, even based on the data that you've given
4 us, we don't see any signs of polymerization in the -- in the
5 temperatures. I think part of the other conversation with the
6 three in the pool fire, in particular, was, you know, at least the
7 one that had been venting 30 seconds every 2 minutes, that car, at
8 least by our quick math, was empty or near empty and just by the
9 duration of the time they described the venting and some quick
10 calcs on what the flow rate through the PRV is going to be.

11 So that same group kind of -- once Steve got there and had
12 those conversations, he brought the concerns from the team there
13 on the ground that, you know, he didn't want to answer initially.
14 Certainly, with his VCM expertise, a lot of the focus was
15 polymerization and that's our, you know, PVC folks, those are two
16 different animals and two different technologies.

17 And so we had a lot of both technologies represented in
18 probably what was, you know, 250 years of OxyChem manufacturing
19 experience with the executives and directors that were on the call
20 and that's not -- that's not including, you know, folks that were
21 in communications or others that had different functions, that's
22 just inside-the-fence manufacturing experience. So --

23 Q. Okay.

24 A. -- when Steve came back and asked us, you know, here's what
25 they're talking about, we kind of kicked that around, talked

1 through the scenario, hey, that car's warmed up, it's not even at
2 its relief temperature, it's got a long way to go, in fact, 60-
3 something degrees to even get to where the PRD is going to lift,
4 you know, keep monitoring the temperature and it will tell you
5 whether anything's going on. So we weren't in -- we didn't have a
6 combined call then, so I wasn't in the relay of that information
7 to Steve, but that's the kind stuff that we walked through to help
8 him go back with our input and answer the questions that he had
9 been asked when he showed up.

10 Q. Okay. All right, thank you for that. So just to circle
11 back, so the conversations go internal to your on-the-scene team
12 for Oxy, correct, and then Steve Smith and team on the ground
13 relay that information then to an SPSI --

14 A. Yes.

15 Q. Okay.

16 A. Exactly, Marc. Once we had folks on the ground, that's how
17 it occurred Sunday evening. So the Saturday night and Sunday
18 morning was us directly with Norfolk Southern and SPSI and then
19 once Steve was on the ground, he's talking to them. You know,
20 from our perspective, we hope that's more efficient for the -- for
21 the people that are managing the scene. And so he comes back and
22 talks to us, we had the conversation, and he goes assists them
23 with SPSI, which he did following our call and, you know, from our
24 conversations with him, communicated the same things that -- the
25 highlights from our conversation, which were we don't see any sign

1 in the temperature data of polymerization, so that shouldn't be a
2 concern. But monitoring the temperature data to know that is a
3 great thing to do, so we certainly supported that.

4 Q. So let's talk about the temperature data and the critical
5 temperatures and the temperature pressure curve that --

6 A. Um-hum.

7 Q. -- you know, was discussed. But also, while I was on scene,
8 I do remember that there was a particular critical temperature
9 that had been mentioned numerous times of between about a hundred
10 and 80 to a hundred and 90, somewhere in that range, as far as a
11 critical temperature goes. Can you tell me a little bit about
12 what that critical temperature is?

13 A. Yeah, absolutely. So the critical temperature, 185 to 190
14 degrees, depending on which vapor pressure chart you use, is the
15 temperature in the railcar that has to be reached before the
16 equivalent vapor pressure of the vinyl will lift the relief
17 device. So it's actually the temperature at which the relief
18 device on the car activates.

19 Q. Okay, thank you.

20 A. So that 185 correlates to the 247.5, you know, it's got to be
21 at least there before it will start relieving.

22 Q. So that critical temperature wasn't necessarily a -- would've
23 created a catastrophic failure of the tank car, that would've been
24 the -- the time when the pressure relief device opens and relieves
25 the pressure, correct?

1 A. Yes.

2 Q. Okay.

3 A. Yes, sir, that is correct.

4 Q. Have you done any calculations on the actual catastrophic
5 failure of a DOT-105 tank car and what that would look like as far
6 as the temperature, like how high a temperature or a pressure
7 inside a DOT-105 tank car has to get before it actually
8 catastrophically fails?

9 A. Yeah. No, I have not, Marc, done any --

10 Q. Okay.

11 A. -- calculations. I know the design pressure, you know, on
12 those or the design rating's 300 PSI. As I understand, they're
13 protected at 247 and a half on the relief device. I know from the
14 -- from my perspective, before you get into the threat of over-
15 pressurization, the temperature has to be above 200 degrees and
16 the relief device not working, from my perspective. It's going to
17 take that kind of a temperature before and the relief device not
18 going off, you know, that should happen at 185 to 190, so you
19 know, I think at 200-plus degrees or around 277 PSI.

20 Q. Okay.

21 A. You know, so you got to be there and climbing to get close to
22 300.

23 Q. Right. So --

24 A. But I have not done calculations.

25 Q. Right. And then let's talk about some more temperatures.

1 The temperatures that were being taken -- that were taken on
2 scene, can you tell me who was taking those temperatures, do you
3 know, and relating that back?

4 A. No, I can't tell you who took the temperatures, you know.

5 Q. Okay.

6 A. Yeah, it's either SPSI or the other emergency response folks.
7 My understanding, it's SPSI, but I don't know that for certain.

8 Q. And so were you kept up to date on those temperature readings
9 as they were coming through and as they were read or can you tell
10 me how that information was being relayed to you as far as --

11 A. Yeah. So the first temperature information that we heard, I
12 believe, was on Sunday afternoon and it included the one
13 temperature from, you know, the car of concern at 135, but we
14 didn't have any follow-up. My understanding is that they
15 continued to monitor that railcar's temperature through the night
16 and even into noon, 1 o'clock the next day.

17 I never heard any of that temperature. After the afternoon
18 dataset was given to Steve, we didn't receive any more information
19 or questions or, you know, asking for our input, you know, here's
20 what the temperature's doing, what does that mean to you, that
21 didn't occur after that initial dataset on Sunday.

22 Q. Okay. But to your understanding, even that critical
23 temperature point, as they were being read and the information was
24 being relayed, had never actually reached a hundred and 80 degrees
25 or anywhere close to that on scene that you know of?

1 A. Yeah, what I would say on that, Marc, is that all of the
2 railcars that were relieving had to be at that 185 to 190 degrees,
3 right, and --

4 Q. Okay. Internally, you're saying.

5 A. Yeah, absolutely. And so then they're going to relieve and
6 what happens with a liquid VCM is it almost auto-refrigerates, you
7 know, some as it relieves and so, you know, those cars,
8 particularly ones that were at the point of relief, they're 185,
9 190 in order to make that happen. So all of the cars had been
10 that hot. My understanding, based on the manifest data, is that
11 all the cars were observed to have relieved from their relief
12 devices at some point.

13 Q. Okay.

14 A. I certainly wasn't there, I can't verify it, but that's my
15 understanding, looking at the -- I think the manifest info that
16 had, you know, railcars, that they relieved through the PRDs and I
17 believe they were all yes, so that means at some point in the 2-
18 day fire, all of those cars were in the 185 to 190 range, the
19 relief devices went off, they would've pulled back, you know, once
20 they relieve themselves and some continued to go, like the ones in
21 the pool fire and the others, you know, you could relieve and
22 reset and they're insulated, so it takes a while for their
23 temperature to drop, right?

24 Q. Yeah. So regarding polymerization, can you talk about --

25 A. Um-hum.

1 Q. -- what catalysts would require polymerization as far as the
2 oxygen environment or anything that would actually, I guess, fuel
3 that polymerization or the runaway?

4 A. Yeah. So the polymerization, you know, you have to have an
5 initiator in order to trigger that and the most common one and the
6 one that's focused on for shipping the vinyl in a stabilized form
7 is oxygen. So, you know, your oxygen levels have to be low, below
8 200 parts, to ship that as a stabilized railcar. There's a lot of
9 things that are listed that can trigger polymerization. The rate
10 of polymerization is going to depend on the concentration of the
11 initiators that are present, et cetera, et cetera, but you got to
12 have something like oxygen, other metals, something to basically
13 break the vinyl chloride double bond.

14 So, you know, we add things in our PVC plants that are
15 initiators to start that reaction and then things at the end to
16 control it. But in this space where there's -- where there's no
17 oxygen, low oxygen present, you know, you don't have an initiator
18 present to start the polymerization. I think the SDS that the
19 industry uses for VCM does a pretty good job of calling out, you
20 know, a host of potential initiators that are out there. But in a
21 low-oxygen environment, you know, you don't have to worry about
22 those things.

23 MR. DOUGHERTY: Okay, perfect. Thank you for that.

24 MR. THOMAS: Sure.

25 MR. DOUGHERTY: So I'd like to just halt my questions there

1 so I don't stay longwinded with the questions here and give
2 everyone else an opportunity to go around and ask --

3 MR. THOMAS: Okay.

4 MR. DOUGHERTY: -- questions if anyone has -- and if anyone
5 does have any questions, just feel free to reach your hand,
6 virtual hand, here and we'll ask the questions.

7 MR. THOMAS: I need to learn how to do that.

8 MR. DOUGHERTY: Does anyone have any questions so far? Chief
9 Carey, good morning.

10 BY MR. CAREY:

11 Q. All right. Good morning, Paul, thanks for joining us.

12 A. Yes, sir. Good morning, Chief.

13 Q. Appreciate your time.

14 A. Yes, sir.

15 Q. So most of the technical advice that you guys were providing
16 was you were providing it to SPSI, not to the incident commander?

17 A. Yes, sir. The two phone calls that we had were with SPSI and
18 Norfolk Southern reps, so we weren't plugged into the incident
19 command structure or the incident commander. Yes, sir.

20 Q. Oh, okay. And as far as the -- this risk of polymerization
21 -- and I appreciate your refresher course on polymerization. I
22 used to teach chemistry at the National Fire Academy. It's all --

23 A. Well, that means -- that means you can head-check me there,
24 did I say anything wrong or was it mostly I sounded good?

25 Q. No, I'm not a scientist. But anyways, we don't know who was

1 providing those temperature readings, right, you said that?

2 A. Yeah, I don't know for sure. My assumption is that it was
3 SPSI because that's who we were on the call with and we
4 recommended that they take those so that they would know for sure
5 what was going on inside the -- inside the railcar.

6 Q. Okay, but you also stated that on Saturday there was -- you
7 were in contact with them and --

8 A. Yeah.

9 Q. -- at that point, even sight unseen, before you had that
10 first good temperature reading, which you said was on Sunday --

11 A. Right.

12 Q. -- for some reason you did not worry about polymerization at
13 that point and that was based on what?

14 A. Right, it's based on our awareness of the state that the VCM
15 is in, the fact that the VCM -- the railcars were still
16 pressurized based on their descriptions, right, so they're -- you
17 know, in order for you to have polymerization, you've got to have
18 oxygen or something else getting in that wasn't there when you
19 shipped the car --

20 Q. Right.

21 A. -- and everything that we were hearing was, you know,
22 pressurized at the dome, you know, we got jetted flares. And so,
23 you know, the comment at that time was in regards specifically to
24 the one railcar that was acting weird that, you know, they said
25 hey, it had been venting --

1 Q. Right.

2 A. -- 30 seconds every 2 minutes. And so for that railcar to
3 basically deplete itself, you know, over 8 to 10 hours through the
4 PRD, there was just no evidence of polymerization, you know, based
5 on what they were describing and our experience that the cars were
6 stabilized.

7 Q. Is it fair to say that because you think that a lot of the
8 product had been depleted, the pressure relief device would not
9 have been operating as it was, if there was polymerized material
10 coming up into it and plugging it up?

11 A. Yeah, sure.

12 Q. And there was no oxygen.

13 A. Yes, exactly. Yes, sir. And the other thing is just the
14 description of the length of time that that relief device had gone
15 on, you know, it was like 8, 10 hours, something like that, it was
16 a long period of time that, at least per their description, it was
17 hey, 30 seconds every 2 minutes. So you do the quick math, that's
18 several hours of venting through that relief device and --

19 Q. Right.

20 A. -- it just didn't -- it seemed like, to us, with that kind of
21 flexing of the relief device and our awareness of PRDs, it more
22 likely -- you know, it was something mechanical with the relief
23 device, hey, you know, you really flexed that spring or, you know,
24 it's just reacting as it should, it just -- polymerization. But
25 look, we're weren't on the scene, so the guidance that we gave

1 them was -- you know, my specific words were highly unlikely,
2 extremely low probability; however, if you want to know for sure
3 if there's something going on inside the railcar that you can't
4 see, if you can get a temperature you will know for sure. So we
5 didn't want to be absolute, these guys' lives are at risk and
6 they're the ones responding, so you just want to give them hey, if
7 you go get a temperature you can know if it's safe to do that,
8 right?

9 Q. Right. Do you think the critical temperature at which
10 catastrophic failure would occur would be more up around 300?

11 A. Yeah, I think the critical temperature as far as the railcar,
12 if it's a thermal expansion, you know, what I was trying to say to
13 Marc, this isn't a polymerization temperature, this is the railcar
14 design for 300 PSI, as I understand, the relief devices are set at
15 247 to go off before you hit that design pressure. And so if you
16 look at the pressure temperature curves for vinyl, the
17 temperature's got to be above 200 degrees in order to get above
18 the relief device, you know, set-point pressure. So I think --

19 Q. Right.

20 A. -- when I looked at them, 200 degrees is like a 277 PSI, so
21 you got to be north of 200 just to get up to the design pressure
22 of the car, if the car hasn't been damaged or other things, right?
23 So that's what I was trying to communicate.

24 Q. Okay. And so let's talk about a potential for not just
25 polymerization but BLEVE.

1 A. Yes, sir.

2 Q. As far as that goes, was there any discussion about the
3 potential for BLEVE and what the temperatures and pressures would
4 need to be to have a BLEVE?

5 A. Yeah. Certainly, that's a concern, you know, with railcars
6 and I'll say the discussions that we had were primarily around the
7 fact that the railcars were, you know, relieving themselves
8 through the relief devices, as best described by, you know, SPSI,
9 and had been doing so, you know, for a while, which was a good
10 sign. So, you know, you got more confidence that that's not going
11 to occur as you get further into the event because, from our
12 experience, BLEVEs are going to occur pretty fast in a pool fire
13 explosion scenario like that, you know, and when they go --

14 Q. Right.

15 A. -- they're going to go quick. So --

16 Q. Yeah.

17 A. -- it certainly was a concern, you know, we talked about -- I
18 think I had some confidence in the fact that the relief devices,
19 you know, appeared to be doing their job and going off. Now, they
20 were, you know, going off, as they described, as a jetted flame.
21 When they were relieving, it was, you know, a blow torch, right?
22 But the good news was, is that, you know, we were hearing hey,
23 this -- this relief device went off all through the night, 30
24 seconds every 2 minutes. So, you know, in those kind of
25 scenarios, particularly for the three in the pool fire was the

1 primary focus, it sounded like we were getting away from BLEVE
2 concerns because they were responding.

3 Q. Right, I get it. Good.

4 A. Yes, sir.

5 Q. Good explanation, thank you.

6 A. Yes, sir.

7 MR. CAREY: I don't have anything further. Thanks again for
8 your time, Paul.

9 MR. THOMAS: Yes, sir, Chief.

10 MR. DOUGHERTY: Thanks, Chief.

11 Anyone else with questions at the moment?

12 (No response.)

13 MR. DOUGHERTY: A silent crowd today, I guess.

14 BY MR. DOUGHERTY:

15 Q. Okay. So if we could, I'd like to go over some -- just for
16 some clarification, elaboration --

17 A. Yes.

18 Q. -- on the notes that were taken, that were submitted to our
19 Kiteworks site on April 28th. And I just had -- I have some
20 excerpts here, but I'd just like to read them and if you could
21 just either elaborate on them or give some clarification, that
22 would be -- that would be great.

23 A. Okay.

24 Q. So the first one is on page Oxy/NTSB-000194 and without
25 repeating that every time I go on this, I would just like to --

1 A. Okay. Okay.

2 Q. -- give the page number.

3 A. Yeah.

4 Q. So on the provided notes, I'd like to know more about the
5 note that says about the momentum to vent and burn or the momentum
6 to liquid flaring and need to sit with NS and talk about it. Do
7 you know what that is a reference to, as far as the momentum to
8 vent and burn?

9 A. No, I don't, Marc. And transparently, I haven't seen the
10 notes that were submitted last Friday, so -- or, you know, who
11 took them or what they were thinking. The only comment I would
12 give is that I know that, you know, there were two different
13 scenarios that SPSI was reviewing with us, that they were
14 considering. The one Saturday mentioned hey, we're getting ready
15 to do a hot tap and flare, and then that railcar acted funny and
16 then, you know, Sunday they were talking about vent and burn and
17 walked us through some of their experience with that. So I really
18 can't offer much further --

19 Q. That's okay.

20 A. -- than what I heard from them directly, right, and --

21 Q. That's fair. And I'm sorry, let me just go -- I'm going
22 through my notes here, a couple pages.

23 A. That's okay.

24 Q. So on page 195 of the notes, it says moving forward tonight
25 to set up for vent and burn tomorrow, set up to move TILX tonight

1 and re-rail and move, TILX being the eastern-most car. Do you
2 remember the conversations or discussion about re-railing the TILX
3 car and why it was and why that didn't happen?

4 A. I don't, Marc. I do remember hearing -- I mean, I don't
5 remember that coming up in our -- in our Saturday or Sunday
6 morning conversation, I just don't remember that. I do remember
7 hearing, I can't tell you when, that that was a consideration
8 about moving that TILX car.

9 Q. Yeah, okay.

10 A. But I can't tell you, I don't remember being a part of the
11 direct conversation where that was going on, but I do remember
12 someone talking about they were considering that or had asked
13 about it or --

14 Q. Okay.

15 A. Yeah.

16 Q. All right, thanks.

17 A. Not much help there, but --

18 Q. No, that's fine. So page 196, there was a note and I
19 understand these are not your notes, these are someone else's
20 notes, but --

21 A. Yeah. I can give you my perspective --

22 Q. Yeah.

23 A. -- if it's something that I was a part of or a conversation,
24 yeah.

25 Q. Yeah, perfect. It says polymerization S/B, a runaway

1 transaction temp would keep rising, not starting to drop. I'm not
2 quite sure what the S/B means. Do you happen to know what that
3 means?

4 A. Polymerization, what's it say?

5 Q. It's an S/B. Just a question.

6 A. Polymerization S/B, what they were -- it sounds like what
7 that was referring to is back to the temperatures and the
8 temperature being critical to clearly indicate where the
9 polymerization was going on. So if, you know, any temperature
10 drop, you know -- by definition of exothermic polymerization, you
11 can't have temperature drop. So I don't know what S/B -- if
12 that's your question, what S/B means.

13 Q. No, it was part of the question.

14 A. I don't have the acronyms the folks around me use, so I'm
15 still trying to learn some of those.

16 Q. Yeah.

17 A. But no, I don't know.

18 Q. It was really just more along the lines of the temperature, I
19 guess, from what I understand, it just says polymerization, the
20 temperature would keep rising as opposed to dropping for
21 polymerization.

22 A. Yeah, yeah, that's what -- so for polymerization reaction,
23 you know, for sure, that's one of the things we communicate, that
24 it's going to be very exothermic and it's going to continue to
25 rise until it, you know, reaches its endpoint, you know, whatever

1 that -- so it's an ongoing exothermic reaction and it gives off,
2 you know, a tremendous amount of heat, so it's a -- I agree,
3 that's what they seem to be saying there was, yeah, it continues
4 to rise, it doesn't go in reverse. You know, it will rise a few
5 degrees and then -- and then start dropping.

6 Q. Yeah. So were you -- given the temperatures, were you aware
7 that the temperatures had spiked and were dropping, declining and
8 dropping and leveling off, up until the decision to vent and burn?

9 A. Yeah, not until Monday morning, you know, after we heard the
10 announcement that there was extreme, you know, temperature rise,
11 high probability of over-pressurization or explosion and, you
12 know, blowing shrapnel for a mile, you know, we quickly reached
13 out to Steve and they said no, the temperature, you know, went
14 from 135 I think to 138, you know, Sunday evening, and then back
15 to 130 Sunday evening and then I understand it continued to drop
16 until noon or 1 o'clock where it was, you know, maybe 126 or 127.
17 I haven't looked at that data firsthand, but --

18 Q. Okay.

19 A. -- I understand that to be what was uploaded recently.

20 Q. Correct. Yeah.

21 A. So no, we weren't aware of that and, you know, we were aware
22 of the 135 and, you know, provided guidance on the status, what
23 that meant to us, you know, as far as the pressure on the railcar,
24 half of its relief device setting, but we weren't aware or didn't
25 have any other communications on the temperature drop that

1 occurred through the evening, evidently.

2 Q. Okay, all right. Thank you for that.

3 A. Sure.

4 Q. So just moving on, a couple -- I think I have just a few more
5 and it's really just in reference to a temperature that was given
6 in the notes of a hundred and 30. That was on page 197. We don't
7 have the hundred and 30 degree and I know you haven't seen it yet,
8 but we don't have the hundred --

9 A. Yeah.

10 Q. -- and 30 degree reading. Do you happen to know where that
11 temperature came from or who relayed that to you? Or your group.

12 A. Yeah. Yeah, I guess that's from Steve, you know, it was --
13 what I understood was it was 135 to 138 and then dropped to 130
14 and stayed there. Talking to Chris, you know, he thinks maybe
15 that was a roundup from temperatures below that, that I believe,
16 you know, continued. So maybe if it was, you know, dropping to
17 126, 127 and they said --

18 Q. Okay.

19 A. -- yeah, it's about a hundred and 30 degrees, so that would
20 be the best explanation I'd have for that. But we were
21 communicating, you know, Monday morning when we called, it was
22 yeah, he said it dropped to 130 and it stayed there through the
23 evening, so no real change from -- you know, other than the -- I
24 think maybe it was at its high at 138 and so it had dropped like 8
25 degrees and stayed there, is what we understood before the --

1 before the notes were uploaded.

2 Q. Okay, thank you.

3 A. Sure.

4 Q. So the next note, let me see where this is at, page 198. It
5 says SRS, Chip, which I believe that's Chip Day from SRS, says
6 that --

7 A. Um-hum.

8 Q. -- polymer came out of the vapor space. Do you recall any
9 conversations about it and if there was polymer coming out of the
10 vapor space, what that would actually look like?

11 A. Yeah, I don't -- can't really comment on that or don't have
12 any firsthand, you know, knowledge. They didn't -- well, we
13 didn't have any direct communications with them, you know, on
14 Monday, so I'm not sure what -- what was communicated there.

15 Q. Okay.

16 A. Yeah.

17 Q. All right. And then my last question here is a note about
18 updating the SDS, as far as the quantity info around phosgene. Do
19 you know what that's in reference to?

20 A. No, I don't. You know, the SDS, you know, has that listed,
21 so I'm not sure what they're referring to.

22 Q. Okay.

23 A. I think the SDS clearly, you know, talks about the potential,
24 you know, combustion products on it, the best I remember.

25 Q. Okay, all right. Thanks, Paul, I appreciate that.

1 A. Yes, sir.

2 MR. DOUGHERTY: And that is -- honestly, that's all my
3 questions. I'd like to go around again. If anyone else has any
4 other questions, feel free to raise your hand or speak up and ask
5 away.

6 Ms. Stegmann.

7 BY MS. STEGMANN:

8 Q. Yes, good morning. Paul, I just have a few questions, I
9 don't get too many opportunities to ask you questions. Just to
10 clarify some of your statements earlier, was Oxy part of the
11 unified incident command, from your perspective?

12 A. No.

13 Q. And you responded to Chief Carey that you were not plugged
14 in, I think, to -- with the incident commander. Do you know if
15 anybody in the Dallas special situation room ever spoke directly
16 to the incident commander?

17 A. No, we did not.

18 Q. Okay. And I think it's clear from your testimony that you do
19 not believe that polymerization was occurring in any of the five
20 VCM railcars. Can you make reference or recall if we did any
21 testing at Oxy Vinyls post-incident, sampling or testing to
22 confirm or validate polymerization presence?

23 A. Yes, yes. Under direction of the NTSB and with their, you
24 know, approval, we collected samples and had them analyzed, you
25 know, on all five railcars at our Avon Lake lab and those results

1 also indicated there was PVC present in any of the cars.

2 Q. And are you aware of anyone from Oxy communicating a
3 different conclusion on polymerization occurring?

4 A. No, I'm not aware of any communication of that, ma'am.

5 Q. And I guess my final, just following up on that, is do you
6 think that there's any mixed message on this point of
7 polymerization from Oxy?

8 A. No, I think, you know, we were provided the right guidance on
9 Saturday, you know, for that scenario that we described and said
10 hey, I think that's extremely low probability, but here's how you
11 know, you know, it's very exothermic, you know, if you can get
12 temperatures, you'll know. And they need to know, right, they're
13 at the tip of the spear, so those folks need to be sure and I
14 think that was the right guidance for them.

15 And certainly, as we got temperature data on Sunday, you
16 know, we were able to confirm hey, look, this one railcar of
17 concern is at half of its relief device set-point pressure, it's
18 not even at the point now that the others have been at, that were
19 relieving from a temperature standpoint, it's a long ways away,
20 right?

21 So I think we, you know, did everything that we could to try
22 to provide the right insight and I think it was the right, you
23 know, technical input to -- to inform the decisions. It was a
24 challenging situation for them to navigate through. So we got a
25 world of respect for SPSI and what they do and that was a -- that

1 was a challenging situation.

2 MS. STEGMANN: Okay, thank you. That concludes my questions.
3 Thank you, Paul.

4 MR. THOMAS: Yeah, sure.

5 MR. DOUGHERTY: Thanks, Karenanne.

6 BY MR. DOUGHERTY:

7 Q. Just one more follow-up question regarding the temperature
8 readings of the cars.

9 A. Yes.

10 Q. Do you know where they were taking the temperature readings
11 from, being that they were jacketed and insulated cars?

12 A. I don't with a hundred percent confidence. It seemed like I
13 heard a couple things, it seemed like I heard at one point, and I
14 can't confirm this is accurate, that there was a -- that they were
15 able to get through the internal skin, maybe through a tear in the
16 insulation jacket on one of them and I probably assumed, Marc,
17 that, you know, as things subsided they were able to get them off
18 the -- of the pressure plate, but the fact of the matter is I
19 don't know for sure where they were taking them, that was never
20 communicated.

21 MR. DOUGHERTY: Okay. All right, thanks for that.

22 Last round of questions, anyone?

23 (No response.)

24 BY MR. DOUGHERTY:

25 Q. Okay, hearing none, so we've obviously -- I've obviously

1 asked you a lot of questions today and I always like to leave
2 off --

3 A. Yeah.

4 Q. -- an interview with this, is there anything that we haven't
5 asked you or any information that you may have that you think
6 would be helpful in our investigation with this incident?

7 A. No, I think, Marc, honestly, we've covered that and we had a
8 really limited role. You know, we take the response here, we sent
9 folks to the scene and we had our executive -- half of our
10 executive team and directors, you know, on the -- on the phone
11 there trying to support it and I think you've all been thorough in
12 kind of trying to get a sense on what things were communicated and
13 what was discussed, you know, and what -- what we were hearing,
14 the guidance we were giving.

15 Again, everybody on this end recognizes that, you know, we
16 were from afar and the folks on the ground and with the
17 responsibility to navigate through that, you know, we were all
18 aligned in trying to give them as much info and as much technical
19 insight as we could for them to do that accurately and I think you
20 all thoroughly covered, you know, the information that we have to
21 share. It's pretty limited.

22 Q. I understand. Yeah, appreciate that.

23 A. Yeah.

24 MR. DOUGHERTY: All right, thanks, Paul. I appreciate it.

25 I think this is a good time to conclude the interview. The

1 time is 10:54 a.m. and I will stop the recording.

2 (Whereupon, at 10:54 a.m., the interview concluded.)

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CERTIFICATE

This is to certify that the attached proceeding before the

NATIONAL TRANSPORTATION SAFETY BOARD

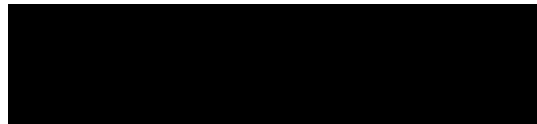
IN THE MATTER OF: NORFOLK SOUTHERN TRAIN DERAILMENT
 IN EAST PALESTINE, OHIO
 ON FEBRUARY 3, 2023
 Interview of Paul Thomas

ACCIDENT NO.: RRD23MR005

PLACE: Via Microsoft Teams

DATE: May 5, 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.



David A. Martini
Transcriber



National Transportation Safety Board

Washington, D.C. 20594

Transcript Errata

Subj: Transcript Review Request for: Derailment of Norfolk Southern Railway Train 32N with Subsequent Fire and Hazardous Materials Release, East Palestine, Ohio, on February 3, 2023.

Accident No.: RRD23MR005

To: Paul Thomas, Oxy Vinyls

Dear Mr. Thomas,

The enclosed transcript of your interview on May 5, 2023, is provided for your review and comment to ensure its accuracy. It is not for public release.

The transcript is investigative information of the National Transportation Safety Board (NTSB) created as part of the NTSB's investigation into the derailment of Norfolk Southern Railway train 32N with subsequent fire and hazardous materials release in East Palestine, Ohio, on February 3, 2023. (NTSB Accident No. RRD23MR005).

NTSB regulations prohibit the public release of investigative information prior to release by the NTSB without the permission of the NTSB Investigator in Charge (IIC). See 49 C.F.R. § 831.13(b). The IIC has not approved public release of this information at this time. Therefore, we request that you refrain from any further dissemination of this transcript.

Kindly review this transcript for accuracy and provide corrections, if any, in the attached table. Please print, sign, and return it to me via email by close of business, **May 23, 2023**. Please return or destroy the transcript after providing your comments.

Thank you in advance for your attention to this matter. If you have any question regarding the process, please feel free to contact me.

Thank you,

Marc Dougherty

Hazardous Materials Accident Investigator (RPH-20)

National Transportation Safety Board

490 L'Enfant Plaza East, SW

Washington, DC 20594

[REDACTED]

[REDACTED]



National Transportation Safety Board
Washington, D.C. 20594

Transcript Errata

TABLE OF CORRECTIONS FOR TRANSCRIPT INTERVIEW WITH: Paul Thomas
RECORDED ON May 5, 2023

PAGE NUMBER	LINE NUMBER	CURRENT WORDING	CORRECTED WORDING
1	19	for all of these	priorities
8	19	if I	I won't
11	19	Rupture	Relief
11	19	, it just don't	at the dome
13	7	considering	concern in
13	19	so if it's -- if	so if
14	3	and at one point, you know, we-	at some point, you know,
14	5	exothermic is VMC	exothermic as VCM
16	21	has a better part in	hasn't been a part of
17	25	PSVs	PRDs
18	10	PRV	PRD
19	7	to Steve	from Steve
19	22	goes assists them	goes and sits down
21	12	300 PSI. As I understand, they're	300 PSI, as I understand. They're
21	19	degrees or around	degrees are around
27	24	it just -- polymerization	its just not likely polymerization
28	7	you can know if it's	you can know. If it's
33	8	indicate where the	indicate whether
34	4	it will rise	it won't rise
38	1	there was PVC present	there was no PVC present
38	8	we were provided	we were providing
39	14	was a -- that	was a hole that
39	15	to get through the	to get to the
40	8	take the response here,	take the response serious,

Paul A. Thomas

Printed Name of Person providing the above information



Signature of Person providing the above information



National Transportation Safety Board
Washington, D.C. 20594

Transcript Errata

05/22/2023

Date