

UNITED STATES OF AMERICA

NATIONAL TRANSPORTATION SAFETY BOARD

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Investigation of: \*

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MERRIMACK VALLEY RESIDENTIAL GAS \*

FIRES AND EXPLOSIONS \* Accident No.: PLD18MR003

SEPTEMBER 13, 2018 \*

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\* \* \* \* \*

Interview of: MARK CHEPKE

Columbia Gas of Ohio  
Gahanna, Ohio

Wednesday,  
March 6, 2019

## APPEARANCES:

MICHAEL HOEPF, Ph.D., Human Performance Investigator  
National Transportation Safety Board

ANNE GARCIA, Human Performance Investigator  
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ROGER EVANS, Investigator in Charge  
National Transportation Safety Board

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National Transportation Safety Board

TOM TOBIN, Esq.  
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(On behalf of Mr. Chepke)

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I N T E R V I E W

1  
2 DR. HOEPF: Okay. My name is Mike Hoepf. Today is March  
3 6th, 2019, and we are at 1600 Eastgate Parkway, Gahanna, Ohio,  
4 interviewing Mark Chepke in connection with an accident that  
5 occurred at Merrimack Valley on September 13th, 2018.

6 The NTSB accident number is PLD18MR003. The purpose of the  
7 investigation is to increase safety, not to assign fault, blame,  
8 or liability. The NTSB cannot offer any guarantee of  
9 confidentiality or immunity from legal or certificate actions. A  
10 transcript or summary of the interview will go in the public  
11 docket.

12 The interviewee can have one representative of the  
13 interviewee's choice. Does everyone understand that this  
14 interview is being recorded?

15 MR. CHEPKE: Yes.

16 DR. HOEPF: Thank you. And, Mark, if you could please state  
17 your name and spell it, I'd appreciate it.

18 MR. CHEPKE: Yeah, it's Mark Chepke, M-A-R-K, C-H-E-P-K-E.

19 DR. HOEPF: Okay, and I am Mike Hoepf, H-O-E-P-F, with the  
20 NTSB.

21 MS. GARCIA: Anne Garcia, G-A-R-C-I-A, human performance  
22 investigator for the NTSB.

23 DR. JENNER: I'm Stephen Jenner, S-T-E-P-H-E-N, J-E-N-N-E-R,  
24 investigator with the NTSB.

25 MR. TOBIN: I'm Tom Tobin, T-O-B-I-N, and I'm an attorney

1 with the Wilson Elser Law Firm.

2 DR. HOEPF: Okay and --

3 MR. EVANS: Roger Evans.

4 DR. HOEPF: Oh, I'm sorry Roger.

5 MR. EVANS: Roger Evans with the NTSB.

6 MS. GARCIA: Could you repeat that, Roger, for the record?

7 MR. EVANS: Roger Evans, with the NTSB, R-O-G-E-R, E-V-A-N-S.

8 DR. HOEPF: Okay, thanks. And, Mr. Chepke, do you mind if we  
9 call you Mark?

10 MR. CHEPKE: That's fine, thank you.

11 DR. HOEPF: Okay, thank you.

12 INTERVIEW OF MARK CHEPKE

13 BY DR. HOEPF:

14 Q. And could you just start by telling us a little bit about  
15 yourself and your background?

16 A. Yeah, I've been with NiSource for a little under 34 years.

17 Q. Okay.

18 A. Began my career as a field engineer and progressed over that  
19 period of time through a number of different jobs into operations,  
20 gas operations, into construction, into the pipeline safety  
21 organization, and probably about 5 years ago into training, and  
22 I'm currently vice president of safety for the corporation.

23 Q. Okay, okay. And who reports to you?

24 A. Currently a number of safety coordinators that cover all  
25 seven of our state operations. That's been recent. That just

1 happened over the last month. Prior to that I ran -- I was vice  
2 president of training for 5 years, so I would have had all of the  
3 trainers across the footprint, and curriculum development people  
4 and anybody that supported training, but right now I have all of  
5 the safety professionals across the company that are working for  
6 me

7 Q. Okay. And who do you report to?

8 A. Dave Monte.

9 Q. Okay. And what safety training have you received?

10 A. Oh, it's been a long career so there's been a lot of training  
11 over the course of that period of time. Traditionally, back when  
12 I was in field operations, we had -- every 3 years we had  
13 emergency response training that we would attend as safety people,  
14 fire training back in operations.

15 Oh, my goodness, most of it in the last 10 years, the  
16 majority has been more leadership training because I've been in,  
17 obviously in the training organization itself. No, obviously  
18 participating in the development of a lot of training courses and  
19 as part of that, you know, sitting in training courses that way  
20 and helping to develop training courses. But these last 10 years  
21 a lot of it has been different types of leadership development and  
22 presentations around safety, AGA sponsored training that AGA does  
23 at their spring and fall conferences, been through a number of  
24 those and other outside entities as well.

25 Q. Okay. And what are your safety responsibilities?

1 A. Right now it's just to make sure that we're following the  
2 course that's set. Again, this is relatively new for me stepping  
3 into the safety role. The vice president of safety that was just  
4 retired recently, by the name of Dave Varwig, had built a number  
5 of safety programs that are currently in place and functioning.

6 So, again, for me it's to maintain those programs, safety  
7 meetings, safety strategies, the role out of those type things,  
8 the execution of the field work when it comes to safety, making  
9 sure the coordinators are doing what they need to be doing.

10 Q. Okay, okay. And so I understand, you know, it's sort of  
11 difficult with changing roles and things to kind of conceptualize  
12 -- you know, obviously we're here talking about high level topics  
13 generally but, you know, we're here as a result of an  
14 investigation --

15 A. Sure.

16 Q. -- that happened in September 2018, so maybe you could  
17 clarify what your role was at that time versus now?

18 A. Yeah. Yeah, I'm really here to really talk about the  
19 training program --

20 Q. Okay.

21 A. -- and I'm equipped to talk about the training program.  
22 Again, that's where I've spent the last 5 years.

23 Q. Right.

24 A. That's what I was involved in. At least at the time of the  
25 Merrimack Valley incident I was involved in training, so that's

1 what I'm really equipped to talk to you about.

2 Q. Okay, okay. And so you've been -- so training has been your  
3 primarily -- your primary job focus for the past 5 years. Where  
4 are you located? Have you -- sorry. Excuse me. Have you been  
5 located in Columbus, Ohio, for the last 5 years?

6 A. No. My home is in Pennsylvania just north of Pittsburgh.

7 Q. Okay, okay.

8 A. I have an office in Pittsburgh. I travel a good bit because  
9 I cover all seven of our operating companies when it comes to  
10 training.

11 Q. Okay.

12 A. And we've developed the training program that covers all  
13 seven of our operating companies.

14 Q. Okay, okay. So I'm looking at your business card and it just  
15 says vice president safety so I just -- I know I do this every  
16 time, but just to clarify -- we're talking about training today  
17 but is -- if we had a day of your week of 40 hours a week is --  
18 pretty much is that 40 hours going to training or are there other  
19 safety responsibilities and other tasks and things that you're  
20 doing as the vice president of safety? I'm just trying to get an  
21 understanding of, you know what I mean, like --

22 A. Yeah, I think I do. So my business card up until a month ago  
23 would have said vice president of training.

24 Q. Okay.

25 A. That was there, and my role -- and, again, I'm more equipped



1 to talk about that and I certainly will talk about vice president  
2 of safety; I'm new to that role.

3 Q. Okay.

4 A. So very much right now sitting in meetings, listening,  
5 observing those types of things right now. As vice president of  
6 training my day would consist of a number of things: working on  
7 initiatives to build different training curriculum, working with  
8 the part of the organization that ran these training facilities --  
9 we're sitting in one right now, Columbus, Ohio -- making sure that  
10 we're utilizing the training center properly.

11 Keep in mind I have a -- had a series of staff under me, a  
12 number of directors, had basically three directors reporting to  
13 me. One that was primarily focused on training curriculum  
14 development, so developing new programs, meeting with parts of the  
15 organization, determining what our needs were across the footprint  
16 of almost 83-, 8400 employees, seeing what their training needs  
17 were. The other two directors were split up; they were more about  
18 training execution. So they had the responsibilities to run any  
19 number of training facilities across the footprint and actually  
20 maintain the trainers themselves and the execution of that  
21 training delivery. One of those folks would cover a lot of the  
22 gas, Columbia companies, and the other one was primarily focused  
23 on our Indiana property, NIPSCO, which was gas, electric, power  
24 delivery, power generation. So, again, their day-to-day work in  
25 terms of whether it's dealing with the execution of training,

1 delivery of training, or creation of new training programs that  
2 were out there.

3         The other things that I would do on a daily basis are attend  
4 a number of meetings with our operating companies or our  
5 department heads and those types of things, to see what  
6 initiatives they had in play and how that might impact training in  
7 the future and which direction we wanted to take training as an  
8 organization to keep it updated and fresh.

9 Q.    Okay, okay.  So, and just to kind of set the tone for what  
10 we're going to talk for the core of the interview here.  As the  
11 vice president of safety now, do you have any insight as far as  
12 what has -- you know, what the organization has done as a result  
13 of the incident that occurred in September?  I mean, I don't  
14 necessarily expect that you're going to have knowledge of the  
15 specific events of the day, but what is your understanding in  
16 terms of organizational learning that maybe you've rolled into  
17 training programs or other aspects of your job?

18         Can you just talk about what the communication has been  
19 within the company, your knowledge, and again don't speculate or  
20 go outside your, you know, comfort zone, but just from your  
21 perspective what have you seen?

22 A.    Yeah, let me go back to vice president of training --

23 Q.    Okay.

24 A.    -- and what's transpired over that period of time.  The  
25 training staff themselves are working side by side with our

1 engineering group, our construction group, and our operations team  
2 on a number of initiatives coming out of Merrimack Valley. They  
3 are focused on our, from an engineering side, low -- the low  
4 pressure systems, low pressure regulators, slam shut regulators,  
5 different technology that we're looking to employ. They're  
6 participating in those meetings and starting to build that into  
7 our training programs for the future.

8       They're also starting to deliver courses. Right, very  
9 quickly after that incident there were a number of trainings that  
10 they've put in place to help, whether it's conveying brand new  
11 operational notices that were put in place or any potential  
12 procedural changes that were put in place. They're involved in  
13 both helping to develop that material and then to put on training  
14 when it requires instructor-led training, they would be involved  
15 in that as well.

16       And there's ongoing initiatives to talk about, you know, how  
17 it might -- anything there might impact our construction team and  
18 where they want to go in the future with training. So some are  
19 preliminary meetings. There were some immediate things that they  
20 put in place, but there's also some things that they're looking at  
21 as a training organization to talk about how do we build this into  
22 a long-term curriculum, any changes that have been made.

23       Other things that they're doing is our safety management  
24 systems that are beginning to roll out, they're working closely  
25 with that group to develop the training that's required for safety

1 management systems. Our training organization covers a lot of  
2 different job classifications from frontline employees to  
3 technical employees that have more technical jobs like a  
4 measurement technician or regulation technician, supervisors, call  
5 center employees. So any changes in procedures or changes in  
6 operating practices, it's their job to come alongside and make  
7 sure that that's integrated the right way into whatever that  
8 curriculum plan is for that particular employee group. So there's  
9 a lot of activity going on right now and will be for -- you know,  
10 that's an ongoing.

11 We have a fairly large internal curriculum development staff  
12 here at the company. It's made up of, oh, I want to say about 12  
13 individuals that just -- on the gas side and then there's probably  
14 another 6 or so individuals on the electric side, power delivery  
15 side, so there's quite a few people focused on curriculum  
16 development within the company.

17 Q. Okay. So while we're on the topic of the incident and,  
18 again, it's sort of -- I know it's sort of a general level, but do  
19 you have any reason to believe that an insufficient amount of  
20 training had anything to do with the incident?

21 A. I don't have an indication of that, no.

22 Q. Okay.

23 A. Again, you know, from an engineering standpoint, and I will  
24 clarify this, our engineering organization had developed a  
25 training curriculum program a number of years ago within the

1 engineering group and it's a pretty comprehensive program that was  
2 developed. They created it themselves; they maintained it. The  
3 training organization really didn't do a lot with that program  
4 because it was kind of contained within the engineering  
5 organization.

6 On the construction side, employees are programmed here in  
7 terms of training has historically been focused on field level  
8 employees or field level supervisors. The training organization  
9 does get involved in some of our dispatch type training at our  
10 dispatch center, but when it comes to other parts of the  
11 organization, we may support in a small way if they have a  
12 particular class that they want to sit in on, but we do not -- we  
13 did not and do not build their entire curriculum program. A lot  
14 of that is both through outside education, through universities,  
15 through engineer-to-engineer training, through outside courses  
16 that they attend. But there may be some courses that they might  
17 attend within our program, but from what I know of the incident I  
18 don't see where it potentially is a training issue. But, again,  
19 that's -- there's still more to be found out.

20 Q. Okay. So let's go ahead and talk about just at a general  
21 level then. Okay. So, and I think it's sort of interesting you  
22 said that you were a field engineer at some point or perhaps you  
23 started your career that way?

24 A. A long time ago.

25 Q. A long -- many, many years ago?

1 A. Many, many years ago.

2 Q. Okay. So I'd be kind of curious to hear your perspective.  
3 And mostly we're, you know, worried about the standards as far as,  
4 you know, 2018, leading up to the incident. But, you know, I'd be  
5 curious to hear your perspective to just over the years, you know,  
6 what are the training standards, minimum qualifications required  
7 to be a field engineer?

8 A. Yeah.

9 Q. And we'll just say, you know, and I'd be curious to -- and I  
10 keep qualifying these -- I'm sorry, but, you know, we'll just say  
11 Columbia Gas of Massachusetts to the extent that you can comment  
12 on, but also, of course, I understand NiSource is sort of in  
13 charge of different areas. So is it the same standard there  
14 versus everywhere else?

15 A. Yes. To my knowledge it's the same standard everywhere  
16 across the company. It's centrally -- it's been centrally managed  
17 for a number of years now and that group has worked very hard to  
18 maintain a level of consistency in the development of their  
19 training program. The engineer training program, as I know it,  
20 probably developed back in 2013, a pretty comprehensive training  
21 program. The people over that program are much more aware of it  
22 than I am, but they put a pretty strong structure in place in  
23 terms of making sure that you had a degree, an accredited engineer  
24 that comes to the company. They put in place a good solid  
25 onboarding program, kind of a career path and a tier progression

1 path for engineers, a mentoring path. They really laid out a  
2 pretty strong curriculum for those folks across the years that was  
3 put in place.

4 I know back in -- I think AGA in 2013 put out a paper dealing  
5 with engineer development and those types of things, and that's  
6 about the same time that our folks built their program and very  
7 strong parallels to what AGA was recommending in terms of  
8 covering, and they have a really solid, what I call progression  
9 program for those engineers, and over the years they've added to  
10 it and continue to add to it as various operations change.

11 I'll give you a perfect example of that is when we built  
12 these training centers, the one you're sitting in right now, that  
13 was an effort to move away from more of an OQ-only based training  
14 that was a lot of classroom instruction, to where our training  
15 today is about 70 percent activity based, hands-on oriented type  
16 training to go -- you know, more of an adult learning style,  
17 richer, deeper kind of learning strategy. That's not only  
18 benefited our field level employees but other's like supervisors  
19 and engineers to the opportunity that they've had to come in and  
20 sit in these classes. Some of the classes that our engineers  
21 would get to sit in are measurement and regulation type courses.

22 We had a fairly decent facility in the past, but if you were  
23 to take a look at what we've got now, it'll parallel almost any  
24 company in the country. Atlas down in Texas has a wonderful  
25 facility that we went down and looked at and sent a whole team

1 down there to look at their facility, and use that as somewhat of  
2 a model when we built ours. And while theirs is very good, I  
3 think ours is if not as good or a close second to what theirs is.

4 And where that benefits -- again, it benefits all of our  
5 folks, including engineers, because they get an opportunity to see  
6 things, touch things, work on things, and get a better mental  
7 understanding of that equipment. Even though they may not be the  
8 one to work on it, they really start to understand it a little bit  
9 deeper because of that ability put their hands on it under live  
10 flow conditions that we have here with air.

11 So, again, we've had a strong program. I think it's gotten  
12 stronger over the years and continues to get stronger as we find  
13 more and more opportunities for folks like that to get engaged in  
14 some of these hands-on activities out there in our facility.

15 Q. Okay. Thanks for the -- I appreciate that just -- you know,  
16 we like it when we can ask a simple question and get -- you know,  
17 not a simple question, but, you know, we like to have you talking,  
18 not us talking, so --

19 A. That's fine.

20 Q. So thanks for, you know, elaborating without, you know,  
21 incessant prompting.

22 So let me ask you about the leader of field engineer  
23 position. Can you tell me about the training that goes through  
24 for that?

25 MR. TOBIN: This is Tom Tobin. Pardon my interruption.



1 Tomorrow morning we're going to have the engineering vice  
2 president here who's going to -- he'll have all this for you.  
3 Please go ahead and answer.

4 DR. HOEPF: Yeah.

5 MR. TOBIN: But we've got a guy lined up to give you the--

6 DR. HOEPF: Oh, great. Okay, awesome.

7 MR. TOBIN: -- everything about it.

8 DR. HOEPF: Awesome, yeah. And I'm sure Tom will tell you  
9 too don't -- you know, anything that's not in your purview, your  
10 wheelhouse, just say --

11 MR. CHEPKE: Yeah.

12 DR. HOEPF: -- you know, talk to so-and-so, especially if we  
13 already have them on the schedule.

14 MR. CHEPKE: Right.

15 MR. TOBIN: Feel free to go on. Pardon my interruption.

16 MR. CHEPKE: Yeah. So this is Mark Chepke and, Tom, I  
17 appreciate you jumping in, but that is exactly what I was going to  
18 say.

19 DR. HOEPF: Okay.

20 MR. CHEPKE: Again, I'll go back to our engineering,  
21 organization engineering team has developed their own training  
22 program, curriculum development program. I'm not -- it's been a  
23 number of years since I was directly involved with engineering so  
24 I'm not as familiar with many of those people in that part of the  
25 organization; some but not many. So Kevin Swiger and others are

1 probably -- and I think you are going to be interviewing Kevin --  
2 is a better person to speak to that.

3 DR. HOEPF: Okay, okay.

4 MR. CHEPKE: Yeah.

5 BY DR. HOEPF:

6 Q. So would it be a fair characterization that -- to say that  
7 the training that you're focused on is more PPE, you know, more  
8 people in direct contact with the system as opposed to system  
9 safety management review, that type of thing?

10 A. Yeah. So our group, our group, the training group that I was  
11 previously over up until a month ago, their primarily focus is  
12 field-oriented employees, so a number of different job  
13 classifications from people that maintain the facilities, to  
14 working on the facilities, to constructing the facilities, your  
15 field-oriented worker is primarily what we focused on.

16 I don't know if -- I think you interviewed Dave Monte. I  
17 don't know if he covered this, so if I'm getting too deep -- I  
18 started in this group back in 2000- -- late 2013 or early 2014.  
19 That was an initiative to really rebuild and relook at our entire  
20 training program, and we spent a lot of time and energy for  
21 probably a year with well over 50 people, 6 different groups,  
22 focused on different parts of our training, everything from our  
23 facilities to how we train in OJT, on-the-job training, what tools  
24 we use in the field once we leave the classroom. We call it  
25 performance support. You'll hear it referenced as PST,

1 performance support tool.

2       So we looked at how we schedule training, how we manage it,  
3 we looked at feedback loops, and things like OQ, and how we verify  
4 and validate training. We had all of these groups, and looking  
5 for probably a year and went all over the country looking at other  
6 utilities that were considered industry leaders in their training,  
7 like Atmos and Southwest Gas and PGE and some of those companies  
8 that were doing that.

9       We also looked at other groups outside of the industry and  
10 how they were training emergency responders. You know, we looked  
11 at fire departments and fire training centers. We went to the --  
12 Quantico to see how the FBI trains using simulations and those  
13 kind of things. We went down to BP to look at how they trained  
14 after Horizon and how their training changed. We went to Disney  
15 to look at how they trained for customer service.

16       And what we started to do is we said, look, we are going to  
17 radically -- our organization is going to have a lot of turnover  
18 like the rest of the industry. We're going to see a lot -- as our  
19 programs grow, we're going to be adding a lot of people to our  
20 organization so we've got a huge need for training, especially  
21 entry-level training. Ours is very much a seniority-type based  
22 organization where over time you tend to migrate over your career  
23 to a higher level, higher skill job after many years. But those  
24 entry level people that are coming in, we knew we needed to really  
25 focus on them.

1           So when we started building our training program, that was  
2 our initial area of focus is this large influx of people coming  
3 into the organization, and how do we prepare them to get skilled.  
4 And one of the things that we wanted to do is we said we can no  
5 longer just train for tasks only, and really to some degree OQ  
6 focuses on tasks. And what we decided is we've got to focus on  
7 the whole job and we've got to focus on all parts of the job,  
8 whether it's customer service, whether it's paper work, whether  
9 it's how you interact with one another, whether it's how you hand  
10 off information. We needed to train people completely and we  
11 needed to build a program that focused on people not only from the  
12 moment they walked in the job, but ultimately down the road we  
13 needed a training program to support people a day before they  
14 leave the company, because learning never stops, technology  
15 changes, equipment changes, procedures change.

16           So we needed to be -- have a program that would support  
17 everybody along the way, so we went forward to build a more  
18 comprehensive training program for our frontend employees. We  
19 built four of these, what I call state-of-the-art training  
20 facilities over the last 3 years. We've rebuilt totally our  
21 entire training curriculum. We made that curriculum much more  
22 modular so that it could apply to many different work groups,  
23 because the long term strategy was this -- these modules, while  
24 they don't fit everybody they fit some. So we are now using some  
25 of those modules in training to train supervisors, to train

1 engineers, if it would apply, to train lawyers.

2       So the way we built that training, while focused for  
3 frontline employees, there's pieces of that training that we could  
4 then quickly adapt to a curriculum plan for other work groups.  
5 We've -- again, we've built that, brand new curriculum, brand new  
6 training facilities. We added almost 28 jobs across the  
7 footprint, what we call on-the-job training coaches, which is  
8 something I say is probably better than anybody's got in the  
9 industry.

10       While we still do your traditional on-the-job training where  
11 you go out and ride with your peers -- that is still very much  
12 part of our program is riding with your peers, now we have  
13 dedicated people part of the training organization called on-the-  
14 job training coaches that you're assigned to coming right out of  
15 training, and they are a mentor to begin to shepherd you through  
16 the rest of your development program and make sure that you're  
17 actually ready for your next phase of training. They make sure  
18 you're ready to be released to certain types of work activity.  
19 That all came in place in the last 2 years, and we have now rolled  
20 that out -- that's been rolled out across all seven of our states  
21 on the gas side of the operation, is these OJT coaches.

22       We've developed performance support tools. And, again, if  
23 one thinks about how people learn in any job, 90 percent of  
24 learning I would argue happens outside of a classroom, 10 percent  
25 is in a classroom, 70 percent is more on-the-job, 20 percent is

1 through mentoring. We've tried to really tackle that 90 percent  
2 of learning and support that as a training organization, while  
3 we've tried to enrich the 10 percent with better facilities,  
4 better trainers, better curriculum.

5 We really tried to focus on the 90 percent with these OJT  
6 coaches and our performance support tool, and what the performance  
7 support tool allows employees to re-access learning materials and  
8 support materials. Anytime they're on the job throughout the day,  
9 they can go back and recall a lot of their -- right on their  
10 phone, on their laptop, wherever they're at, they can recall  
11 information. I say all that because that's been our focus.

12 We've got a large amount of new employees so we started  
13 building training programs for our brand new people. We focused  
14 on where we were going to have a big influx of folks and rebuilt  
15 all of our distribution crew training, we rebuilt all of our  
16 service tech training, we rebuilt a lot of our locator training,  
17 our leakage coordinator training. We had solid measurement  
18 regulation training, we have rebuilt some of that training in  
19 terms of certain courses and curriculum and we continue to rebuild  
20 that.

21 But then those -- I'll go back to that training facility and  
22 training modules. They have now started to be where we can impact  
23 other parts of our organization by bringing them in to allow them  
24 to participate in certain modules and certain hands-on activities,  
25 and began to see where it's helping, whether it's supervisor

1 training or, again, whether it's giving lawyers a better  
2 understanding of what field activities go on or, you know, office  
3 operations people, we've really started to see widespread benefits  
4 to the path we started just 3 short years ago.

5 So I know that's a fairly long statement, so you can give me  
6 the high sign if you want -- if I'm going too deep, because I want  
7 to be respectful of you all's time.

8 DR. HOEPF: No, no. I appreciate it. We appreciate your  
9 time and, yeah, I mean -- no, I -- we needed kind of an overview  
10 so I appreciate the, you know, the overview. And it's just --  
11 it's a lot of, it's a lot of ground to cover, so there's just not  
12 an easy, you know, quick way to do it.

13 MR. CHEPKE: Yeah.

14 DR. HOEPF: It's really -- that's really great. I think I'm  
15 going to go ahead and let Anne ask a couple of questions and we'll  
16 take it from there.

17 MS. GARCIA: Okay. Thank you, Mike.

18 BY MS. GARCIA:

19 Q. Just to start with just a couple of background questions. So  
20 what is your education background?

21 A. Yeah, I have a bachelor degree in civil engineering and a  
22 master's degree in organizational leadership.

23 Q. And where are each of those from?

24 A. Yeah, the bachelor's degree was from the University of Toledo  
25 in Toledo, Ohio, and the master's program was at Geneva College in

1 Pennsylvania.

2 Q. And, I'm sorry, again, what was the master's in?

3 A. Organizational leadership.

4 Q. What department is that under? Is that under psychology --

5 A. Probably more HR.

6 Q. -- or business?

7 A. Yeah, it's probably more of an HR organizational development  
8 type.

9 Q. Okay. Thank you. And you mentioned that Dave Varwig just  
10 retired as the safety VP. How do you spell his last name?

11 A. Varwig.

12 Q. Varwig.

13 A. V-A-R-W-I-G.

14 Q. Okay.

15 A. And Dave worked for Dave Monte.

16 Q. Okay. And when was it that he retired?

17 A. I couldn't be specific. It's been within the last 3 months,  
18 I believe, but I --

19 Q. After the incident?

20 A. I can't say that for sure.

21 Q. Okay. And was this a lateral move for you from vice  
22 president of training to vice president of safety?

23 A. Yes.

24 Q. Okay. I'm curious why you decided to make the move?

25 A. Was asked to. I had spent a long time developing my staff in



1 the training organization. My director of training was with me  
2 from the beginning of recreating the whole program. She's a very  
3 talented individual and I've been promoting her in terms of my  
4 replacement because I had been talking about and have been talking  
5 about retiring.

6 So having gone through working up in Massachusetts, looking  
7 at the organization, they decided that when Dave retired they  
8 asked -- they said, you know, Marie is going to be someone we --  
9 Marie Walker -- promote to vice president of training, and that  
10 has since happened, which was very happy with. And they asked me  
11 if I would at least for now step into the vice president of safety  
12 role with Dave retiring and that position being vacant, and I was  
13 more than happy to do that. So, again, it's a new position for me  
14 and it was a need and they asked me to step in, and happy to do  
15 it. I had safety in the past, so as part of my role a number of  
16 years ago as vice president of -- not -- yeah, vice president of  
17 training and safety but only for the Columbia companies.

18 Q. Okay.

19 A. And then when we restructured things and I began to take over  
20 power delivery and power generation on our NIPSCO property as  
21 well, then it went back to just vice president of training. And  
22 then they brought Dave Varwig in to be vice president of safety at  
23 that time. That was about 3 years ago -- 2 to 3 years ago.

24 Q. Okay.

25 A. So, again, I had the safety group for a short period of time,

1 maybe a year, and then stepped away from it to go purely training.  
2 So it was an easy move for the company, to take back over the  
3 safety place and fill that role, at least for now till I decide  
4 what I'm going to do in my career.

5 Q. So someone stepped in as acting vice president of safety from  
6 when Varwig retired until when you took on the mantle?

7 A. Yeah, I believe. We certainly always had Dave Monte as a  
8 senior VP that had training in safety, and Dave is a very  
9 passionate individual over safety in the organization so he knows  
10 it very well, but he also relied on the directors within the  
11 safety organization to step up and continue to manage things as  
12 Dave Varwig moved on to retirement.

13 Q. And so in the brief time, 1 month, that you've been VP of  
14 safety, have you brought in any changes?

15 A. No, not at this time. Again, I am mostly watching, learning,  
16 asking questions, because the organization really is running well.  
17 I am very focused on where we're going with our new safety  
18 management systems and trying to get a better understanding of  
19 those. Still very new to that myself, so I can't really speak to  
20 it, but I think that's the next step for safety is how the safety  
21 organization integrates with that broader safety management  
22 system. So right now it's looking, watching, and learning, and  
23 guiding the team as they do that themselves.

24 Q. Okay.

25 A. Yeah.

1 Q. Thank you.

2 A. Yeah.

3 MS. GARCIA: That's all I have right now. Steve.

4 DR. JENNER: Okay.

5 BY DR. JENNER:

6 Q. Steve Jenner.

7 A. Hi, Steve.

8 Q. You had described for us what sounded like a very aggressive  
9 roll out of many different programs. I guess my question is, why?  
10 Was that based on some shortcomings that were identified or was  
11 that based on someone's interpretation of needs to address future  
12 challenges?

13 A. It's a great question. I think it's a number of things. One  
14 is, when you looked at the industry as a whole, not just the  
15 natural gas industry but the construction industry, the utility  
16 industry, and you look at the trends that are out there, there is  
17 a lot of potential turnover, there's big gaps over the years in  
18 hiring where you had this bell curve, if you will, of hiring. So  
19 we knew when you look out over a 5 to 10 year span that you were  
20 likely going to have a lot of turnover through attribution.

21 We also knew that as we were, like many other utilities,  
22 ramping up our infrastructure replacement programs, that we were  
23 going to be adding a lot of personnel to the organization. And  
24 with adding those personnel that creates a lot of movement within  
25 a company, so you not only just bring people in, people tend --

1 that are leaving on the backend are senior, so that creates two or  
2 three or four moves throughout the company. So that all requires  
3 additional training for those folks moving into new roles. So we  
4 knew that also was going to happen.

5 The other thing you look at is how quickly technology is  
6 changing in this and other industries, whether it's laptops,  
7 whether it's iPads, whether it's -- even your simple locating  
8 equipment is so much more complex with the advent of technology.  
9 So your common jobs that people do in the field are becoming more  
10 technology-based equipment for recordkeeping, for maintaining  
11 things, running things. So that technology was requiring the need  
12 for more training and our employees were asking for it as it  
13 continues to change. The industry certainly has been aggressive  
14 with changing as they learn through DIMP programs and TIMP  
15 programs and those type of things. That creates a lot of new  
16 programs and processes that you want continually to stay up on is  
17 another thing.

18 And probably a last thing that I would tell you is the  
19 students have changed over time. The way individuals learn coming  
20 through grade school and middle school and high schools, colleges,  
21 the way kids learn in colleges is vastly different than when I  
22 went to school. It's no longer chalkboards and lectures, right,  
23 it's group activities, it's computer based, it's all these things.  
24 And that's what we saw of the people coming into our organization,  
25 yet most utilities out there across the industry are still trying

1 to teach the old way with chalkboards and lectures and we knew  
2 that wasn't going to hit the mark.

3 So we really -- listening to all those different points of  
4 interest, you know, points of information, we knew we had to build  
5 a brand new training program and go much deeper with what we were  
6 trying to do for supporting people. So that's what drove us down  
7 that path. And we confirmed that. We did a lot of employee  
8 groups; again, we went out and looked at a lot of other utilities  
9 and what they were doing successfully. And as we decided, look,  
10 we need a more comprehensive training program -- you know, we've  
11 got good, solid OQ programs and we're making them better. We've  
12 done a lot with our OQ programs over the years, I think, to be on  
13 the front edge of a lot of those OQ programs that are changing in  
14 the industry. But we also knew that wasn't just enough, we had to  
15 -- we really had to train people more fully to do their complete  
16 jobs.

17 So that led us down that path and, frankly, the senior  
18 management of the corporation put a lot of effort into this by  
19 letting us add a lot of staff. We added a lot -- not only myself,  
20 but a number of people to the organization to devote to it. We  
21 brought in outside consultants. We put a lot of time, money and  
22 energy into rebuilding this thing the right way. And it has been  
23 fast paced, but the need is desperate out there in terms of those,  
24 all those people coming in. You want to be able to train them  
25 better than they've ever been trained in the past.

1           So I don't know, I hopefully answered your question.

2   Q.   Yeah, absolutely. And let me give you a chance to toot your  
3 own horn here.

4   A.   Yeah.

5   Q.   I understand you were responsible for designing and building  
6 the facility right now in Columbus?

7   A.   Yes.

8   Q.   What does this facility bring to the company that the other  
9 ones haven't been able to?

10   A.   So, yeah, I appreciate that. So back in 2013, Joe Hamrock,  
11 who is now our CEO, maybe because of my background and doing a lot  
12 of different jobs, asked me to take a look at our training, and  
13 that was at the end of 2013 and through 2014 we pretty much did a  
14 comprehensive look at all of our training.

15           Most of our training -- well, we had some very tiny, small  
16 facilities. Most of it was what I call back of the shop type  
17 training. And that's similar, where you went out to the local  
18 operations and you trained at their facility, you brought some  
19 props and tooling with you. That was -- a big part of our  
20 classroom training was out at the facilities that were there, and,  
21 again, for the number of reasons I mentioned, wasn't quite hitting  
22 the mark.

23           So as we looked at that, one component was looking at  
24 facilities, and we knew facilities were key if you wanted to go  
25 more hands-on oriented training, which fits a lot of our

1 employees, frontline employees well. It's a learning style the  
2 majority of them migrate to, they like. It strengthens their  
3 knowledge. And looking at all -- where the industry was going,  
4 that's where most of the utilities were already headed or had. So  
5 we started a path to say, how do we build the right type of  
6 facility that is going to meet the needs of all the different  
7 employee groups we have? And, again, we started the very first  
8 one in 2016, was in Pennsylvania, western Pennsylvania. It  
9 primarily serves our Pennsylvania and Maryland operations.

10 The next one that opened was right here where we're sitting,  
11 in Gahanna, Ohio, near Columbus, and it is a more expansive  
12 training center in terms of our measurement and regulation lab.  
13 And then near the end of 2017, we built one in Virginia to serve  
14 our Virginia property. Early 2018, we opened the one in  
15 Massachusetts to serve our Massachusetts property, and then we  
16 already had one in Indiana.

17 One of the things that we took a lot of pride in is all of  
18 the training facilities are for the most part identical. There  
19 may be some exceptions, like one might have a larger conference  
20 room because it's closer to a main office and holds more people or  
21 a more extensive M&R lab, but they all have M&R labs, they all --  
22 all the classrooms are laid out identical. So if you're a trainer  
23 -- no matter if you're a trainer in Ohio, a trainer in Kentucky, a  
24 trainer in Massachusetts, you can walk into any facility and know  
25 where everything you need is, all the tools are, all the

1 curriculum materials are.

2 We know that our employees, if they don't make a training in  
3 Pennsylvania and they've got to go to a follow-up class in Ohio,  
4 they're going to be trained exactly the same way. So that  
5 benefits us. It moved the training closer to the field, but also  
6 gave us a lot more flexibility to make sure we were getting good,  
7 consistent training across the footprint. It's there.

8 So, again, the facility where we're sitting today, if you  
9 were to walk around the building you'd see it almost full today.  
10 Today's a really good day, we've got a lot of activity going on, a  
11 number of classes, everything from computer-based training to  
12 measurement regulation training to valve training to -- we've even  
13 got brand new employees out digging frozen ground out back,  
14 learning how to dig and use a shovel. So it covers a wide array  
15 of instruction out there.

16 So I hope that, hope that answered your question.

17 Q. Absolutely. One more question.

18 A. Yes, sir.

19 Q. One figure you stated I found very interesting, just that 10  
20 percent of what people learn occurs in the classroom --

21 A. Yeah.

22 Q. -- 90 percent elsewhere. I wonder, how did you come to that?

23 A. Yeah. So as I began to look into training a number of years  
24 ago and read about it and learn about it and talk to experts about  
25 it, I had heard this figure and I kept reinforcing with people.



1 And it's a model, and I can't quote where it came from, but it  
2 seems to be universal and it certainly rang true to me as an  
3 individual, is -- even in my own education. I learned so much in  
4 the classroom and they call that the 10 percent. That's the  
5 classroom instruction, lab, where you -- it's core, it's critical,  
6 but then 70 percent is on-the-job. And I'm thinking back to my  
7 own career and said, yeah, that probably feels right. And then 20  
8 percent of learning is really through those special mentoring  
9 relationships you've had and they -- those come into all forms,  
10 right. They could be a formal mentoring, they could be an  
11 informal mentoring that you have through somebody, but you learn a  
12 lot through that, and for me it rang true as an individual. It  
13 certainly rang true every time I bring it up to people that they  
14 could relate to it.

15 And so as we went down this journey and people began to get  
16 behind it, we said, you know, we've got to cover that 90 percent.  
17 What are we going to do? We could be the best training  
18 organization in the world with a 10 percent, have great  
19 facilities, great trainers, great material, but how do we support  
20 people beyond that? And that's where we started to look at the  
21 OJT coaches, that's where we started to look at our performance  
22 support tools, you know, and performance support tools are  
23 everything if you think about the way you drive today, right. You  
24 used to get a TripTik, a AAA TripTik to go somewhere; now you just  
25 Google it. That's performance support, right; it gives you

1 information that's critical to your job in the moment of need.

2 And so we started. We built a whole organization that is --  
3 their whole job is devoted to helping come alongside training and  
4 helping to develop that material in a way that will support the  
5 employees beyond the classroom. And we pride ourselves in that  
6 because our instructors in the classroom begin to incorporate that  
7 into their teaching of how to rely on that equipment. So  
8 throughout class they'll say, stop, look it up on your performance  
9 support tools, stop, look it up on your performance support tools.

10 Because we're trying to get those behaviors in place so that  
11 when the student leaves they don't have to rely on somebody else  
12 that may not be there in the moment they need. There's not always  
13 somebody there, you know, 5 years later, and this way they become  
14 -- they know where to find information on their own, their  
15 procedures and things like that very timely.

16 So, again, it was just a lot of strategies that all came  
17 together and they made sense, and a big team of people worked very  
18 hard and I'm very proud of what this company's accomplished over  
19 the last 4 to 5 years. So, thank you.

20 Q. Great. Well, thank you.

21 A. Yeah.

22 DR. JENNER: That's all the questions I have.

23 DR. HOEPF: Roger.

24 BY MR. EVANS:

25 Q. This is Roger Evans. Thanks, Mark, for appearing today.

1 Just a couple questions. I just -- I know based on what you gave  
2 us as far as your background and where you've been in the firm,  
3 you've been in a lot -- you've touched a lot of areas of the  
4 company. I think you must have some firsthand knowledge of what  
5 I'm going to ask, I hope.

6 First off, in all of your time that you've been at the  
7 company have you ever been given a formal constructability review  
8 class, a training session?

9 A. Roger, I had a hard time making out -- what class?

10 Q. You know, a constructability class?

11 A. A constructability class?

12 Q. Where you go through a -- yes.

13 A. You know, Roger, I'm going back in -- you're taking me back  
14 many, many years to when I was in engineering and those kind of  
15 things years ago. And, you know, you're talking back in the late  
16 '80s and early '90s for that, that I was in those roles.

17 So training in some ways was different back then, that you  
18 had low turnover, you had a lot of senior people probably to be  
19 there as mentors and support, so it was probably more on-the-job  
20 training and peer-to-peer training back then. And I can't recall  
21 way back then formal training, unless I went to an outside group.  
22 But most of it at that time was peer-to-peer and on-the-job.

23 Q. Okay. That's fine. What about today? Is there a curriculum  
24 that covers constructability reviews, engineering projects?

25 A. Again, I would ask Kevin Swiger, I think who you're going to

1 be talking to, about the formal trainings they have. I will tell  
2 you that the training organization is currently building some of  
3 those courses focused on our construction inspectors, construction  
4 coordinators, as a need that's out there. They do train, I  
5 believe, peer-to-peer and on-the-job for constructability reviews.  
6 That's been part of their process in construction and engineering  
7 for a number of years, to my understanding, and, again, Kevin  
8 Swiger's the right guy to ask that. And I believe they do  
9 training -- it's not done by the training organization, but don't  
10 know who within their organization does it, whether it's formal or  
11 on-the-job. Again, I would ask him.

12 I can tell you that as we look out at what we need to build  
13 for construction coordinators and those folks, there has been  
14 discussions about, you know, that being training that would  
15 benefit the company and there's been some talk about that, and I  
16 think it's still being worked on from a formal class that the  
17 training center would teach.

18 Q. Okay. Okay. Final question is this: From a standpoint of,  
19 if engineering is going on and you are -- you know, your engineers  
20 are putting together some sort of a project, is there a class that  
21 your company offers that teaches risk assessment where you could  
22 go through and do a Y tree or a bow-tie or a failure mode and  
23 effects analysis type study on what they're doing? Is that part  
24 of what you do?

25 A. No.

1 Q. Do you train on that?

2 A. Again, I can't --

3 Q. Okay.

4 A. I would ask Kevin Swiger that question of what he does in his  
5 engineering training and curriculum. I could tell you from a  
6 technical training center we do not offer that class.

7 MR. EVANS: Okay. That's all I have. Thank you very much.  
8 Appreciate it.

9 MR. CHEPKE: Yeah, you're welcome.

10 DR. HOEPF: Is that all, Roger?

11 MR. EVANS: Yeah, that's all I have.

12 DR. HOEPF: Oh, he said -- okay. I'm sorry.

13 I think that just about wraps it up for me. I think we've  
14 pretty much, you know, covered the waterfront. I think that --  
15 you know, I don't want you to comment on areas that are sort of,  
16 you know, outside of your area. It sounds like you've done a lot  
17 of work to get people who are new to the company up to speed.

18 I think as far as my questions are more oriented toward once  
19 you're a part of the organization, you know, how do you develop  
20 those management sort of oversight, you know, risk management sort  
21 of things. So unless you have anything, you know, specifically  
22 pertaining to those higher level sort of training things that you  
23 haven't already commented on that you'd like to comment on, I  
24 think that more or less wraps up my questions.

25 MR. CHEPKE: No, I can't think of anything directly.

1 DR. HOEPF: Okay.

2 MR. CHEPKE: No.

3 DR. HOEPF: Okay. Anne?

4 MS. GARCIA: No, nothing further.

5 DR. JENNER: Nothing else.

6 DR. HOEPF: Okay. Roger, do you have any wrap-ups or should

7 I go to just the usual conclusion questions?

8 MR. EVANS: No, I'm good, I'm good. Thank you.

9 DR. HOEPF: Okay.

10 BY DR. HOEPF:

11 Q. You already answered that. Just, do you have any suggestions  
12 for improving safety in general or preventing a reoccurrence of  
13 this nature?

14 A. I certainly believe as an industry looking into developing  
15 safety management systems. What and how that looks within the gas  
16 industry is new, so I think the industry in itself is finding the  
17 right path forward as they look at the airline industry, as they  
18 look at the nuclear industry, and then how do you transfer that  
19 into the gas industry. I believe that's -- everything I know  
20 about it, it is the right way to go. I call it connecting the  
21 dots, you know. Again, you can have a lot of focused instructions  
22 and tasks but tying those pieces together, which is what safety  
23 management systems are designed to do to make sure you don't have  
24 gaps and holes in processes and learning and those kind of things,  
25 to me that's the right path forward, so I look forward to what

1 that brings to the industry.

2 Q. Okay.

3 A. Yeah.

4 DR. HOEPF: Great. Thank you so much. We appreciate it.

5 MR. CHEPKE: Yeah.

6 DR. HOEPF: Okay.

7 (Whereupon, the interview was concluded.)

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CERTIFICATE

This is to certify that the attached proceeding before the

NATIONAL TRANSPORTATION SAFETY BOARD


IN THE MATTER OF:           MERRIMACK VALLEY RESIDENTIAL GAS  
                                  FIRES AND EXPLOSIONS  
                                  SEPTEMBER 13, 2018  
                                  Interview of Mark Chepke

ACCIDENT NUMBER:           PLD18MR003

PLACE:                        Gahanna, Ohio

DATE:                         March 6, 2019

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.

  
\_\_\_\_\_  
Wade Donovan  
Transcriber