



National Transportation Safety Board

Washington, D.C. 20594

February 21, 2017

Robert Francis Land
Washington Gas
6801 Industrial Road,
Springfield, Virginia 22151

Robert Francis Land:

Reference: NTSB Accident No. DCA16FP003, Silver Spring, MD.
Your Interview conducted on January 31, 2017.

Enclosed is a copy of the transcript of your interview that was conducted as a part of the on-going investigation of the above referenced accident. Please review the transcript for accuracy and make any necessary editorial changes on the attached transcripts. Please put your initials next to each suggested change. After your review, please sign the attached endorsement and return it with the marked copy of the transcript to the following address on or before February 28, 2017:

Kalu Kelly Emeaba
National Transportation Safety Board (RPH-20)
490 L'Enfant Plaza East, S.W.
Washington, DC 20594.

Or if you desire e-mail your comments to: [REDACTED]

Please note that this transcript should be treated as confidential at this time. This transcript is for your use only, and is not for release. If you have any questions, please contact Investigator-in-Charge. Thank you for your assistance and cooperation.

Sincerely,

Electronic Signature

Ravindra M. Chhatre
Investigator-in-Charge
[REDACTED]

Enclosure

National Transportation Safety Board
Office of Railroad, Pipeline, and Hazardous Materials Investigations
490 L'Enfant Plaza East, S.W.
Washington, D.C. 20594

Reference: NTSB Accident No. DCA16FP003, Silver Spring, MD.
Your Interview conducted on January 31, 2017.

I have reviewed my interview transcript from the above referenced accident and:

----- (A) I have no comments to make.

----- (B) My comments are submitted herewith.


^X----- (C) My comments are marked on the attached copy.

PG 44

LINE 10

PG 46

LINE 22



Robert Francis Land

Feb 23-2017

Date

UNITED STATES OF AMERICA

NATIONAL TRANSPORTATION SAFETY BOARD

* * * * *

Investigation of: *

THE EXPLOSION OF APARTMENT *

BUILDING 8701 OF FLOWER BRANCH *

APARTMENTS IN SILVER SPRING, *

MARYLAND ON AUGUST 10, 2016. *

Accident No.: DCA16FP003

* * * * *

Interview of: ROBERT LAND

NTSB Headquarters
Washington, D.C.

Tuesday,
January 31, 2017

APPEARANCES:

RAVI CHHATRE, Investigator in Charge
National Transportation Safety Board

ROGER EVANS, Senior Pipeline Investigator
National Transportation Safety Board

KALU KELLY EMEABA, Pipeline Investigator
National Transportation Safety Board

DOUG STAEBLER, Senior Vice President Operations
Washington Gas

STEVEN PRICE, Assistant Vice President for
System Operations
Washington Gas

SPENCER NICHOLS, Associate General Counsel
Washington Gas

LT. WILLIAM OLIN, Fire and Explosives Investigator
Montgomery County, Maryland

JOHN CLEMENTSON, Assistant Chief Engineer
Public Service Commission of Maryland

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I N T E R V I E W

1
2 MR. CHHATRE: Good afternoon. Today is Tuesday, January 31,
3 2017. We are currently at the NTSB Headquarters located at 490
4 L'Enfant Plaza East, S.W., Washington, D.C. We are meeting
5 regarding the investigation of explosion of Building 8701, Flower
6 Branch Apartments, Silver Spring, Maryland, that occurred on
7 August 10, 2016.

8 My name is Ravi Chhatre. I'm with the National
9 Transportation Safety Board located in Washington, D.C., and I'm
10 the investigator in charge of this accident. The NTSB
11 Investigation Number for this accident is DCA16FP003.

12 I would like to start by notifying everyone present in this
13 room, that we are recording this interview, and we may transcribe
14 it at a later date. Transcripts will be provided directly to the
15 interviewee for review and identifying any typographical errors.
16 The transcripts may be posted in NTSB's public docket.

17 Also I would like to inform Mr. Bobby Land that you are
18 permitted to have one other person present with you during the
19 interview. This is a person of your choice: your supervisor,
20 friend, family member or, if you choose, no one at all.

21 Please state for the record your full name, spelling of your
22 name, organization you work for and your title, business contact
23 information, mailing address, and who you choose to have present
24 with you during your interview.

25 MR. LAND: Yep. So it's Robert Francis Land; R-o-b-e-r-t,

1 middle name is Francis, F-r-a-n-c-i-s, last name Land, L-a-n-d. I
2 work for Washington Gas, and the address is 6801 Industrial Road,
3 Springfield, Virginia 22151, and my title is manager, meter
4 regulator services, and I choose Mr. Spencer Nichols.

5 MR. CHHATRE: Thank you for that. Now I would like to go
6 around the room and have each person introduce themselves. Please
7 state your name, spelling of your name, your title and the
8 organization that you represent and your business contact
9 information starting from my left.

10 MR. KELLY: Kalu Kelly Emeaba, K-a-l-u, K-e-l-l-y, last name
11 E-m-e-a-b-a. I'm a NTSB investigator.

12 MR. NICHOLS: Spencer Nichols, Associate General Counsel,
13 Washington Gas, [REDACTED].

14 MR. STAEBLER: Doug Staebler, Senior Vice President of
15 Utility Operations at Washington Gas, email dstaebler@washgas.com,
16 location Springfield Office; phone number [REDACTED].

17 MR. PRICE: Steven Price, Assistant VP, System Operations,
18 Washington Gas, same address as Mr. Land gave, email of
19 [REDACTED], and telephone number of [REDACTED].

20 LT. OLIN: William Olin, Montgomery County, fire and
21 explosive investigator. Cell phone [REDACTED]; email william --
22 [REDACTED]

23 MR. CLEMENTSON: John Clementson, Assistant Chief Engineer,
24 Public Service Commission of Maryland, [REDACTED].

25 MR. CHHATRE: Thank you.

1 MR. EMEABA: Roger Evans.

2 MR. CHHATRE: Roger?

3 MR. EVANS: Yeah, Roger Evans, senior investigator, NTSB.

4 MR. CHHATRE: Thank you.

5 INTERVIEW OF ROBERT FRANCIS LAND

6 BY MR. CHHATRE:

7 Q. Mr. Land, if you can just tell us some background, your
8 education, formally, informal, any experience.

9 A. I have a high school diploma, no college education. I
10 started -- I've been at the gas company for -- Washington Gas for
11 36 and about 1/2 years now. So I started in 1980, pumping gas for
12 6 months and then I moved into the service department which is
13 what we call operations now. So I was an assistant serviceman for
14 7 years, and then I was -- got promoted to service technician, ran
15 service technician work for 4 years and after that, I transferred
16 back to Springfield from Northwest Station and ran service work
17 for 2 more years. Then I was moved over to our rough-in
18 construction area which is the work that I did the 7 years as an
19 assistant. And in 1997, I was promoted to supervisor for the
20 construction trucks, or I don't know if we've been saying rough-
21 in, in here, and I've been supervising that for 19½ years, and I
22 just got promoted again 3 weeks ago to manager.

23 Q. Congratulations.

24 A. Thank you very much.

25 Q. Let's start as -- what are your responsibilities as manager

1 of construction?

2 A. Right now it's what we call meter regulator services, which
3 is contractor services.

4 Q. Okay.

5 A. Yeah, so I've moved from one department to the other.

6 Q. Okay. And prior to that, you were a supervisor for roughing
7 in construction?

8 A. Yes, sir.

9 Q. Nineteen years?

10 A. Um-hum.

11 Q. Nineteen plus. What are your responsibilities there?

12 A. Supervising up to 16 employees at a time. At times I would
13 have 22 and our specific jobs are meters and regulators,
14 commercial, residential, changing regulators, installing meters,
15 running house piping, monitor regulator racks for the large
16 industrial type like that, mercury regulators, insulates for
17 corrosion, all type of maintenance work, new business work,
18 anything that comes from customers, customer complaints, customer
19 concerns, and my area is the Virginia area.

20 Q. Okay. So the incident location is not in your service
21 territory?

22 A. No, sir.

23 Q. So the supervisor, he assigns jobs or how does that work?

24 Who --

25 A. I'm sorry?

1 Q. As a supervisor, do you assign the individual employees jobs
2 that they're supposed to do today or --

3 A. Yes.

4 Q. -- somebody else does that?

5 A. Yeah, so when we come into work in the morning, all our work
6 is -- well, in the old system, it was in the CAD is what we called
7 it, and some of that work can come from telephone service or
8 customer service directly from the customers or it can come from
9 service techs in the field. It can come from the underground
10 crews or operation crews that are calling in orders for us.

11 So every morning we come in, and we'll have -- we go into the
12 system and see how much work we have, what type of work we have,
13 and then we match that up with the number of crews that we have,
14 and we get that assigned and send them into the field. And then
15 we can have orders come in throughout the day also, emergency type
16 orders, emergency repair orders.

17 Q. So maybe give me some idea of what type nature of the
18 assignments that come in?

19 A. So --

20 Q. You give a lot of people different assignments. I'm trying
21 to get a grasp, get my arms around it.

22 Q. So it could be meter changes. It could be regulator changes
23 at customers' homes. It could be any type of maintenance work for
24 straightening meter buildups, things of that nature. It can be
25 where there was a service replaced and now we're going to be

1 moving the meter to the exterior of the building. It can be a
2 large commercial establishment, restaurant, paving plant,
3 drycleaners, anybody -- this office building here, that might be
4 questioning their pressure on their regulator or something of that
5 nature. A lot of people call in and say they don't have enough
6 pressure. Maybe they got a new boiler. Maybe they got new
7 generators installed, and typically they call back to the gas
8 company to see about us coming out to check our pressures and
9 things of that nature on the meter, to make sure that things are
10 running properly for them.

11 Q. And how would a --

12 A. So it's a whole litany of things that we do like that.

13 Q. And how would a customer know that they're not getting enough
14 pressure?

15 A. Normally their engineer will call up and say my boilers are
16 failing or one of my boilers out of three is failing, things of
17 that nature. And especially since 1999, Y2K, when the world was
18 going to fall apart and everybody started getting generators,
19 people have learned a lot about generators and the pressure
20 requirements for them. And a lot of times people go into them
21 blind, when they're putting generators in, whether it's a large
22 building like this or even a residential home, and they undersize
23 their piping or, you know, they require a particular water inch --
24 inches water column for that generator, and that's not what
25 they're getting when they first -- generators require 10 inches

1 water column. The gas company supplies a maximum of 7 on our
2 inches water column regulators, and then our next step is 2 pounds
3 for them.

4 So, you know, when customers add generators in there and they
5 go to fire these generators up, the generator people come out and
6 if they don't have exactly what they want at that generator, then
7 they always direct it back to the utility company, whereby we go
8 out and check our pressure and then we direct the customer on what
9 they probably need to do for their equipment to get it running
10 properly.

11 So especially -- you know, and you get that on boiler changes
12 also. New boilers -- the new boilers nowadays coming from, you
13 know, 2000, 2005, 2010, are not the same that were put in back in
14 the '40s, '50s and '60s. They're very, very, very mindful of
15 their pressure, and they have a lot of different controls on them
16 that likes to shut them off. So --

17 Q. So regulator replacement, who makes those requests to you?
18 Customers or internally, within Washington Gas?

19 A. It comes from a litany of places. It can come from -- well,
20 it depends on what type of regulator change you're talking about.
21 So are we changing a regulator because the regulator had a leak or
22 are we talking about a regulator that maybe is not supplying
23 enough pressure to the customer. So a lot of times the customer
24 will call in and say, you know, my furnace is not working
25 properly, my water heater is shutting off, my flames seem low on

1 my range. And we'll send a technician out there, one of our
2 service techs, and the service tech will normally change the
3 spring-loaded regulator. If it's a mercury regulator, that would
4 be passed onto our rough-in group.

5 You have customers that again add generators. Maybe it's a
6 single family home, and they add, you know, any type of piece of
7 equipment. Any time a piece of equipment is not operating up to
8 standard for the customers, especially being new, then they will
9 call the gas company through our telephone service line. Most of
10 your companies that installs new furnaces, water heaters,
11 generators, things of that nature, if they're not getting the
12 pressure they like, they're not going to honor the warranty, and
13 it's --

14 Q. My focus --

15 A. -- really, really important.

16 Q. Sure. My focus, and I guess maybe hopefully all people are
17 going to focus on multifamily dwellings.

18 A. Okay.

19 Q. No commercial customers. So we can forget about that aspect.

20 A. Okay. Beautiful.

21 Q. So as far as the regulator change goes, do the multifamily
22 dwelling complaint --

23 A. Yeah, I've been here 36½ years, and I've never had a customer
24 call me or an order come through telephone service about a
25 regulator change or pressure problem that I know of at a

1 multifamily dwelling.

2 Q. That request would come from utility then?

3 A. That request normally would not -- when we're talking about a
4 customer, so we're not talking about unit 1, 2, 3 or 4. When we
5 talk about multifamily like that, there's a couple of different
6 customers that there's for me. There's the customers that live in
7 the units themselves, the apartments, and then you have the
8 customer which is the ownership group or the maintenance facility
9 at that apartment complex. So maybe their water heater's not
10 running right or maybe they have a pressure problem, they think,
11 at a range or they've changed a range and it's not working
12 properly. That management firm would normally call the gas
13 company and say we think we have a pressure problem.

14 Usually one of my first questions to them is what else do you
15 have on gas? And they'll say we have 13 other apartments, and my
16 response will be, well, are the other 13 working properly? And
17 normally they'll say, yes, they are, which boils down to one piece
18 of equipment. So, yeah, normally I don't -- we don't get, that I
19 know of in my years here, calls from a customer in unit A or unit
20 1 or unit 5 saying I have a pressure problem. Normally it comes
21 from the management firm there.

22 Q. Okay. And do you also handle the gas odor complaints under
23 your supervision --

24 A. No, sir.

25 Q. -- prior to you becoming the manager?

1 A. No, sir.

2 Q. Okay. Those complaints would go to --

3 A. Telephone service.

4 Q. Telephone service?

5 A. Um-hum. Customer service.

6 Q. And then do you handle those? Will you investigate those
7 requests or somebody else does?

8 A. Normally it's a service tech.

9 Q. Service tech will go.

10 A. That's correct. That's -- in years past, we have called them
11 one-man responders or emergency responders, as they're the
12 frontline guys. We have guidelines that we have to be, we have to
13 be on the jobsite within a certain time.

14 Q. So those people will be under you or they will be under some
15 different --

16 A. They are under a different supervisor.

17 Q. Supervisor.

18 A. Um-hum.

19 Q. Now the service technician goes out in the field and notices
20 problem with a regulator. Then will that technician be calling
21 you to respond or --

22 A. He would be --

23 Q. -- would the technician --

24 A. He would be calling his dispatcher.

25 Q. Okay.

1 A. Right, and then the dispatcher would put the order in the
2 system, and it would be assigned to the appropriate construction
3 crew.

4 Q. Okay.

5 A. So in a multifamily unit, when -- we have what we call on-
6 call. So a supervisor for the gas company, a field op supervisor
7 works a week of on-call and we have a schedule for the whole year.
8 So you will work from a Tuesday morning at 7 a.m. till the
9 following Tuesday morning at 7 a.m., 24 hours a day, sleep at
10 night, but if they call you, you have to be ready, whether it's a
11 phone call or you go out on-site.

12 So that technician would call dispatch to let them know about
13 that regulator, and a supervisor would be notified specifically if
14 there was any indication that we were going to shut that apartment
15 complex down because of a regulator.

16 Q. And the same applies to a single family dwellings? Same
17 procedure applies to a single family dwelling?

18 A. Not a single family home. Not a single family home. We're
19 talking one gas meter for a single family home. If the regulator
20 fails, the technician cannot change that regulator out because
21 he's not qualified for mercury. If it's a spring-loaded
22 regulator, he will change that regulator so we can keep supplying
23 gas to the customer. If it's a mercury regulator, he will isolate
24 that and then refer that order.

25 Q. Okay. And then will that come to you?

1 A. Multifamily units or high rise buildings or large commercial,
2 they are required to call a supervisor before they turn something
3 like that off. I'm not saying that we're going to tell them not
4 to turn that off. I have no problem turning off 100 apartments.

5 Q. So that can come to you if it's in your jurisdiction?

6 A. If it's in my jurisdiction or if I'm the on-call person for
7 that weekend, yes.

8 Q. It will come to you?

9 A. Yes.

10 Q. So walk me through. Then what happens? What happens? How
11 do you handle if complaint -- if a call comes to you saying
12 multifamily dwelling --

13 A. From a service technician out in the field?

14 Q. -- we need to replace a regulator. What happens?

15 A. He says, hey, I have a regulator that's leaking or
16 malfunctioning, right? So if it's a single regulator, my first
17 question to him is are we able to bypass that regulator? So if we
18 have a crew close by, and he can be there to monitor that
19 situation, as long as the gas is venting -- if the gas is vented
20 -- if the regulator is leaking inside the building and we have to
21 turn the building off, then we make the call and we turn the
22 building off. If it's a regulator that's weeping, and it's
23 weeping to the exterior of the building, and it's a very slight
24 reading, then what we do is we have that service technician
25 standby, we get the rough-in construction crew there, and then

1 we'll bypass that building to change that regulator so we don't
2 interrupt service to that customer.

3 Q. And then what happens? Do they fill some form in, your crew,
4 who -- rough-in crew who goes in and changes the regulator?

5 A. Changes the regulator, um-hum.

6 Q. Then what do they do after they do that? How -- what are the
7 paper trail that they generate?

8 A. Yeah, that's all completed in the computer in their trucks.

9 Q. Okay. So in that --

10 A. So in the old -- in -- well, prior to January 3rd, we called
11 that CAD, C-A-D, computer-aided dispatching. So, you know, you
12 see the Toughbooks that the military use, that's what the gas
13 company has -- had. Now we have pads, since the new system,
14 January 3rd. So everything is completed in the system. When I
15 say the system, I mean their computer in their vehicle. It's
16 completed there and then that is uploaded into the system.

17 Q. And then what happens after that?

18 A. So there's no --

19 Q. After, what happens then? What happens -- your technician
20 goes in and he or she replaces a regulator.

21 A. Yes. So the service technician refers the order to the
22 rough-in crew or the construction crew, right. The rough-in crew
23 goes in, either turns the building off to change a regulator or if
24 bypass capabilities are there, we bypass it, we change the
25 regulator. Then we do our pressure checks on the regulator,

1 things of that nature. We do our standard leak performance that
2 we're supposed to do inside and outside, and then we're done. We
3 complete the order in the CAD.

4 Q. And what happens to that information that goes in the CAD or
5 pad or whatever you --

6 A. That's updated into the gas company's system, our customer
7 order system.

8 Q. Who looks at that? Anybody? Or just a record?

9 A. It's a record.

10 Q. So nobody sees as to what happened, what was the cause of the
11 regulator failure?

12 A. Well, when you doing, when you're doing the number that we
13 probably are -- not that I know of.

14 Q. Do you know where we can get that information as to who
15 actually either looks at it, doesn't look at it, or it just goes
16 into a vault, some kind of a --

17 A. It's what we call service history is what we call it. Our
18 service history in the other system went back 5 years. So any
19 time you wanted to pull up anything about an address, you can go
20 to that particular address in our customer order system, and you
21 can pull up service history for 5 years. Changing a regulator for
22 -- for us at the gas company is an everyday occurrence. It's like
23 eating a sandwich. It's like people brushing their teeth every
24 day. It's a very, very ordinary thing that our technicians and
25 our rough-in construction technicians do. It's not out of the

1 ordinary whatsoever.

2 Q. Is there a person responsible --

3 A. We have over a million customers.

4 Q. Now is there a person responsible who actually makes sure
5 that your system is -- people are filling the forms -- are filling
6 in the information properly or is there any missing information
7 or --

8 A. Well, when they -- you have to understand that when they
9 complete these orders in the CAD unit, prior to January 3rd, and
10 in our new system now, there's what they call required fields. So
11 as these fields are filled in for the meter, the meter index, the
12 regulator, the type of regulator, the pressure checks on the
13 regulator, the static or lockup, the low load, high load, vent
14 screen, is it mercury, is it not mercury -- there's a whole litany
15 of checks that they have to do on their pads/their Toughbooks
16 prior to January 3rd, that are required fields and if they don't
17 complete them fields, they cannot complete the order in that
18 system to send it forward. It prevents them from doing that. So
19 they have to complete the required fields before they complete
20 that order in the -- in their CAD unit and it's sent on to be
21 uploaded into our system.

22 Q. Are there any optional, I guess, fields in there like
23 comments? Comment is not a required field, is it?

24 A. No, remarks is not a required field. I don't know about
25 the --

1 UNIDENTIFIED SPEAKER: Still? Still in the new system?

2 MR. LAND: Yeah.

3 UNIDENTIFIED SPEAKER: Still there's an area where you can --

4 MR. LAND: Yeah, you know, I'm not 100-percent certain on the
5 remarks. I'm not 100-percent certain on the remarks.

6 BY MR. CHHATRE:

7 Q. So who looks at these remarks? I mean, if there is a
8 required field or not. John Doe or Jane Doe fills those things in
9 and you are saying it goes in your records, whatever --

10 A. It goes up to the records.

11 Q. So who -- is there any person responsible for that particular
12 aspect of your work or --

13 A. That I do not know.

14 Q. So do you know --

15 MR. PRICE: Maybe ask it like this, Ravi. If this helps --
16 Steve Price. As a supervisor, what would cause you to look at a
17 service history that one of your guys worked on --

18 MR. LAND: Right, because --

19 MR. PRICE: -- and to review the remarks?

20 MR. LAND: -- you figure if there's 3- or 400 orders being
21 done a day, not regulators but all types of orders like that, no
22 supervisor is going to sit down and review 100 to 150 orders from
23 their technicians out in the field from the previous day. We'd
24 never get nothing done. It just wouldn't happen.

25 What would cause me to review any particular order, number

1 one would be -- I do know the next day what addresses, you know,
2 my crews have gone to like on a Saturday or a Sunday. So when I
3 come in Monday, I will look at that, and usually what -- what
4 draws me to certain orders are a couple of things. (A) we get an
5 email from our dispatcher about emergency service replacements.
6 So if I see that my technician was there at that same address --
7 well, we don't dig dirt; that's another department -- I'll review
8 that order. Or for as long as I've been working the Virginia
9 area, I can look at an address and just about tell you if that's a
10 commercial area and a commercial address, and when I see something
11 like that, that always peaks my interest to see what we've done
12 there.

13 Single family homes, it's different. The thing about a
14 single family home is a construction crew or a service technician
15 can replace a meter bar or any regulator at a single family home
16 unless it's a mercury regulator. So both of them can do exactly
17 the same thing at a single family home except a mercury regulator.
18 Therein lies the difference.

19 The reason why I look at commercials like that is because
20 they're a little different. They're larger meters. It could be
21 multimeters with dual regulators. It could be a B34, a larger
22 regulator, different things of that nature like that, and I kind
23 of want to know what they're doing at them. Therein, that's the
24 difference for me between a commercial and a residential.

25 BY MR. CHHATRE:

1 Q. So what will make you -- forget about commercial. We are
2 looking at the multifamily dwelling units.

3 A. Um-hum.

4 Q. What will a supervisor require to look at this information
5 that you are collecting? I mean, I guess, correct me if I'm
6 wrong, the whole purpose of information is so somebody can look at
7 it. So who in the company will be, whether they look at every
8 one, random, who will do that? I mean, if you're not -- if you
9 are not sure as a supervisor, why collect information if nobody's
10 going to look at it? And that's what -- if you don't have anybody
11 looking at it, how will you know that mercury regulators are
12 failing more frequently last 5 years than last 55 years, or this
13 new manufacturer, their regulators -- spring-loaded regulators are
14 failing more often than somebody else's? I mean, I'm just trying
15 to understand the checks and balances --

16 A. Checks and balances.

17 Q. -- and I take it the answer is you do not know. Is that
18 correct?

19 A. You're correct.

20 Q. Okay.

21 MR. STAEBLER: Yeah, but, Ravi, if -- Doug Staebler. I mean
22 I would put forth that --

23 MR. CHHATRE: Identify.

24 MR. STAEBLER: Doug Staebler, Washington Gas. Sorry. I
25 would put forth that that type of information wouldn't be

1 necessarily picked up by a supervisor on a daily basis versus
2 being able to go into the database and query big chunks of that
3 data to look at trends and stuff, right. So --

4 MR. CHHATRE: I was asking anybody in the company.

5 MR. STAEBLER: Right.

6 MR. CHHATRE: I said anybody in the company looking at it?

7 MR. STAEBLER: Yeah.

8 MR. CHHATRE: And -- because what, what triggers me for this
9 question, just to clarify because you are a party, I did not get
10 more detailed information on mercury regulator replacement. I
11 didn't get -- because certain regulators, all of them are old or
12 what is the cause of the failure, because they are multifamily
13 dwellings or they're single family dwellings. So I see -- because
14 I'm not getting enough information on the regulators, the cause
15 for failures, and I'm also not sure about -- and going back to our
16 earlier interviews, when person said filling some erroneous
17 information.

18 Yeah, and if a supervisor just requires to fill the computer-
19 aided information and nobody looks at it, I don't see a check as
20 to whether the person is filling everything right and is proper or
21 not. That's one of the reasons. I mean, I didn't forget that.
22 I'm just following that as to what is the balance. As a
23 supervisor, how will anybody know that my technician went in there
24 and he came out in 5 minutes? With his computer, he can timestamp
25 that, and how can he possibly do all this stuff that he said he

1 did or not, he did not do that?

2 So I'm just looking in that terms as to the quality control
3 check of the system. And I still haven't found a good answer to
4 that yet. That's where I was coming from. This is the first
5 supervisor that I'm talking to.

6 MR. STAEBLER: Right. So you raised a couple of points on
7 the earlier technician where you saw some gaps.

8 MR. CHHATRE: Discrepancies. Major discrepancies I saw.

9 MR. STAEBLER: Right. And one of the things that we had
10 asked them, and I will ask again, is when can we circle back with
11 those technicians and talk them -- talk through those records and
12 see what their explanations are? So that's part of the reason you
13 don't have a response to some of those issues that arose.

14 The other is that one of the reasons for recordkeeping is to
15 know exactly what you did do at a particular place at a particular
16 time because from time to time questions come up about that. What
17 did the company do? And that's our record as to what we did.

18 The third piece which I think you're kind of getting at is
19 how do we know our personnel are doing what they're supposed to
20 do? And that is a lot broader review than the comment sections on
21 the work orders. I have no double, Mr. Land, and you can ask,
22 does he know his people? How does he know they're doing what
23 they're supposed to do?

24 MR. CHHATRE: By no means he's lying that the supervisor has
25 no idea of the crew is doing. I'm not saying that at all. I'm

1 just saying -- where I was coming from, if you are asking people
2 to fill comment section --

3 MR. STAEBLER: Right.

4 MR. CHHATRE: -- and I don't know what the comments would
5 include, but the whole purpose of comment is somebody above that
6 person reads them. And if nobody reads those comments, what good
7 is asking people to fill those comments? At a minimum, I mean,
8 somebody randomly at minimum will look at those. I mean, that's
9 all --

10 MR. STAEBLER: Because we have to, we have to record what we
11 did. We have to do that. That's part of our requirements.

12 MR. CHHATRE: Okay.

13 MR. STAEBLER: So what you're really getting at is, is it
14 being done well? Is it being done right?

15 MR. CHHATRE: No, I mean, the reason I'm asking is the
16 recordkeeping since PG&E, we generally ask all utilities. We look
17 at the recordkeeping. That's a major issue for our Chairman. I
18 mean, he has seen all that.

19 MR. STAEBLER: Absolutely.

20 MR. CHHATRE: So recordkeeping is a significant issue for us
21 because, you know, everything is just as good as your records are.
22 So that's what we are trying to find out, if the records are
23 accurately kept, they are used properly, and that's where I'm
24 coming from. I'm not saying --

25 MR. STAEBLER: No, I do understand.

1 UNIDENTIFIED SPEAKER: And that level of scrutiny happens on
2 our construction records, on our leak repair records, our
3 distribution --

4 MR. CHHATRE: And by no means I'm implying that is a factor
5 in this at all. Our investigation is just not -- I mean, once we
6 investigate, we want to make sure that we are looking at all the
7 aspects, that we have learned from the past.

8 MR. STAEBLER: Understood.

9 MR. CHHATRE: So by no means am I implying that the
10 recordkeeping is a cause to this accident at all. I just -- this
11 is one of those things we do.

12 BY MR. CHHATRE:

13 Q. Okay. So as far as the mercury regulator goes, typically
14 what kind of failures you know that happen on your mercury
15 regulators, if you have knowledge of that? Not -- if it's beyond
16 your knowledge, then I won't ask that question. Don't know is
17 good enough, but --

18 A. No, I can -- so mercury regulators were installed way prior
19 to me starting in 1980, right. So in 1980, once I came into the
20 company and I moved onto service system, I was stationed at
21 Chillum, and that would have been February of '81. And at that
22 point in time is when I started learning about mercury regulators
23 as an assistant on the rough-in crew, and was changing mercury
24 regulators back then. And mercury regulators get changed, that I
25 see, for either weeping, the weeping vent on them or inadequate

1 pressure for the customer. Weeping or inadequate pressure for the
2 customer.

3 Q. And how would they know that? Just from the observation or
4 the -- hearing the gas? How would a technician know it's weeping?
5 Pressure I can understand.

6 A. Um-hum. Okay. Normally when a mercury regulator weeps, it's
7 like any other regulator, coming out of the vent pipe, and there's
8 some mercury regulators that are outside. So normally a call or
9 odor -- an odor call will come in from the customer, and then that
10 will go to our service tech who will go out and investigate it.

11 When he finds the mercury regulator, if it's weeping, at
12 that point in time he will turn that gas off at that point in
13 time, or when a technician -- the other thing for the pressure
14 problem, it can come from the customer again adding new equipment
15 or it can come from a technician that goes out to change a meter
16 for age, which we're required to do. It can come from a
17 technician that is going out to supply gas to a customer, which
18 the 121 code we call that, to supply gas to a customer, they're
19 required to check the regulator at that point in time, and if he's
20 not getting the performance from the regulator that he should be,
21 then he'll leave it off and refer an order for a construction crew
22 to replace that mercury regulator. If the mercury regulator is
23 working properly, locking up, static, which means it's not
24 weeping, and it's giving the proper pressure, operating properly
25 on the low load, high load, then he'll leave the regulator there,

1 being a service technician, and will refer a future order for the
2 construction crews to go out and change that --

3 Q. (Indiscernible)

4 A. -- exactly. Set up an appointment with the customer and
5 change that mercury regulator out, um-hum.

6 Q. And you said it is a requirement for the meters to be
7 replaced after a certain --

8 A. Yeah, that's what we call -- we used to call it an AIS
9 program, age in service. Now it's called ISP. So there's certain
10 brand names of meters that -- well, all our meters, you know, the
11 larger meters are different. The AL250 meter for the residential
12 homes are changed on a, you know, 20, 30 year basis, and I believe
13 in the State of Virginia, the records are sent to the Public
14 Service Commission and, you know, they're changed on a percentage-
15 type basis. Not every meter that is at a certain age is changed
16 for age or what we call ISP at this point in time.

17 Q. What does the ISP stands for?

18 A. I believe it means internal sampling program.

19 Q. Okay.

20 A. Um-hum. It's for the new -- it used to be called AIS which
21 is age in service.

22 Q. Okay.

23 A. So, yeah, we're required to change so many meters per year
24 and they're brought back in and what we call in-tested. And
25 depending on the results, if the commissions are happy with it,

1 then we're good. If they see a little something in the report
2 that they're not content with, then we go out and we change more.

3 Q. Okay.

4 A. Yeah, residential and commercial meters.

5 Q. Residential, it can be multifamily dwellings, like apartment
6 complex --

7 A. It can be, yes.

8 Q. -- or it can be anything?

9 A. Yes. Yep.

10 Q. So that is -- I mean, even if -- so when you change those
11 meters for that reason, do you test those to make sure they are
12 working properly at that time?

13 A. The meters?

14 Q. Yeah.

15 A. Yes, sir.

16 Q. Okay.

17 A. They're what we call -- all of our meters are out-tested
18 before they're installed in a customer's home and in-tested. In-
19 tested means once they're brought back in --

20 Q. They're brought back.

21 A. -- they're in-tested and all that information is recorded to
22 make sure the meter --

23 Q. That goes in the computer.

24 A. That's correct, to make sure the meter is registering
25 properly.

1 Q. Out of curiosity, if you know the answer -- tell me if not;
2 don't know is fine -- but typically what is the cost of a meter
3 typically?

4 A. You know, 10 years ago I think they were less than \$25, but
5 to be honest with you, right now, I wouldn't quote me on that.

6 Q. Okay.

7 A. Yeah. I'd say they're less than \$50 depending on the meter.

8 Q. Okay. And what is the cost of a regulator?

9 A. And again, it depends on the type of regulator you're buying.
10 So --

11 Q. I mean, currently what a spring-loaded regulator you are
12 using?

13 A. Your residential regulators?

14 Q. Yeah, on residential or multifamily dwellings?

15 A. So if we're talking like the B31 regulators or B42Rs, B44 --
16 B42R at 2 pounds, different things like that, I'm not exactly 100
17 percent certain of the price, but I'd say it would be less than
18 \$100.

19 MR. CHHATRE: Do you guys know the current costs?

20 UNIDENTIFIED SPEAKER: Yeah, anywhere from like 15 --

21 (Simultaneous conversation.)

22 UNIDENTIFIED SPEAKER: Well, your larger commercial
23 regulators are more expensive.

24 MR. CHHATRE: No, we're only focusing on the residential --

25 UNIDENTIFIED SPEAKER: The house regulators and stuff are 15

1 to \$30 or something like that.

2 MR. CHHATRE: 15 to \$30 for a regulator?

3 UNIDENTIFIED SPEAKER: Yeah.

4 MR. CHHATRE: So meters are more expensive than regulators?

5 UNIDENTIFIED SPEAKER: Yeah, they (indiscernible).

6 MR. STAEBLER: Yeah, and they come with the ERT units on
7 them, too. The meters come with, you know --

8 UNIDENTIFIED SPEAKER: Because the meter reader head's on it
9 too are like \$50.

10 MR. STAEBLER: That's the radio frequency and all that stuff
11 like that for remote reading.

12 MR. CHHATRE: And that's all I have. Thank you. I'm passing
13 on. Thank you so much for the information you gave. Kelly?

14 MR. EMEABA: I don't really have much, but just a few.

15 BY MR. EMEABA:

16 Q. Now you mentioned your odor record or reporting system that
17 your technicians use. This is Kalu Kelly Emeaba. You mentioned
18 the CAD. What does that mean? C-A-D, what does it mean?

19 UNIDENTIFIED SPEAKER: CAD.

20 BY MR. EMEABA:

21 Q. Yeah, your CAD.

22 A. C-A-D, computer-aided dispatching.

23 Q. Okay. I just wanted to be sure.

24 A. Yeah.

25 Q. Dispatching?

1 A. Computer-aided dispatching.

2 Q. Okay.

3 A. Yep.

4 Q. Just to make sure.

5 A. I think it's the fire department or the police department
6 uses that, I believe. Don't they have the Toughbooks?

7 Q. And you just mentioned that it's an old system. So you don't
8 use it any more, correct?

9 A. Yeah, we just -- we just started into our new Project Vision,
10 January 3rd. We just launched.

11 UNIDENTIFIED SPEAKER: We just, we just left the CAD system.

12 MR. CHHATRE: But at the time of the accident, you still had
13 it?

14 MR. LAND: The horse is out of the barn.

15 MR. CHHATRE: And that's the important part.

16 UNIDENTIFIED SPEAKER: We still had CAD, yeah.

17 MR. CHHATRE: You still had CAD at the time of the accident?

18 UNIDENTIFIED SPEAKER: Yes.

19 BY MR. EMEABA:

20 Q. So just in comparison, the new system you just have in place,
21 what does it require compared to the CAD in terms of
22 documentation?

23 A. Yep. So the new system, and I don't know every last single
24 component because that is another department that our Project
25 Vision team built that system, but what I know of it, and what I

1 see, it's more complicated than the older system that we had and
2 there's more information required for the technician in the field
3 to fill out on his Toughpad, and the records are evidently going
4 to give us long-term and more intricate recordkeeping, I would
5 say. You could say it that way. So we've gone from the console
6 TV to the widescreen basically is what has happened.

7 MR. CHHATRE: I like that. I can relate to that very well.

8 MR. LAND: It's a nice system. It's driving us a little
9 crazy right now but we're going to get past that.

10 BY MR. EMEABA:

11 Q. What is that called, the new system?

12 UNIDENTIFIED SPEAKER: Global Work Management under SAP.

13 MR. LAND: Yep.

14 BY MR. EMEABA:

15 Q. Global Work Management. Okay.

16 A. Yeah, SAP.

17 UNIDENTIFIED SPEAKER: And the dispatch part is called Click.
18 It's a program, sort of off-the-shelf program.

19 MR. EMEABA: Okay.

20 BY MR. EMEABA:

21 Q. Okay. And from the beginning, you mentioned talking about
22 your position, your title, meter regulator services or contractor
23 services. Which was it?

24 A. They call it manager of meter and regulator services.

25 Q. Okay. So it's meter and regulator services.

1 A. Overseeing the contractors.

2 Q. Oh, you oversee the contractors?

3 A. The contractors, the meter contractors, yes, sir.

4 Q. Okay. Okay. I think that's why I got it a little bit
5 confused. I wanted to see if you're contractor services --

6 A. Yeah, the department I was in prior was operations, field
7 ops.

8 Q. Okay. So your current work is managing meter and regulator
9 services and you do oversee your contractors?

10 A. Our contractors that do strictly meter work, not -- no
11 underground contractors. Um-hum.

12 Q. Okay. So with you supervising the contractors, what kind of
13 relationship do you have with them in terms of verifying what they
14 are doing for you, the company?

15 A. So I'm 10 days into this job, this is day number 10 for me,
16 but --

17 UNIDENTIFIED SPEAKER: Do you know who the contractors are
18 yet? He doesn't --

19 MR. LAND: I do know them all. I know probably -- well, I
20 know all of the supervisors for the different companies, and I
21 probably know 80 percent of their technicians for many, many, many
22 years. So if I was --

23 UNIDENTIFIED SPEAKER: And why is that?

24 MR. LAND: Yeah, I know, why is that? Because I've been at
25 the gas company 36½ years. So -- but for, as far as like work

1 tendencies and things of that nature, I could tell you about the
2 work tendencies of the supervisors of them companies but not of
3 the particular technician that they oversee in the field. I know
4 that our contractors are held to the same standards that
5 Washington Gas technicians are. We follow the same operations
6 manual. They are required to have the same operator
7 qualifications or OQs that we're required to have and they follow
8 all our leak procedures and everything like that. We're one and
9 the same.

10 BY MR. EMEABA:

11 Q. Okay. Thank you. Being 10 days on this, so I'm not going to
12 ask you much about your contractors --

13 A. Tomorrow makes 11.

14 Q. -- but with your history in the company, how long were you
15 engaged in actual yourself working on meters and regulators in the
16 past?

17 A. Physically?

18 Q. Physically, yes.

19 A. Sixteen and a half years.

20 Q. As a technician or supervisor or what?

21 A. As a technician physically doing the work.

22 Q. Okay.

23 A. Yeah, it was 19½ supervising.

24 Q. Okay. All right. Thank you. So being as a technician and
25 also a supervisor in that area for 16 years, can you -- did you

1 work in multi-dwelling units?

2 A. I did, yeah. I worked in DC, Maryland and Virginia in my
3 time coming up, you know, in the field.

4 Q. Um-hum. In Maryland. Okay. In Maryland, were you able to
5 -- by chance, did you work at the Piney Branch Apartments?

6 A. No, sir, not to my knowledge.

7 Q. Okay. Any of them you can mention that you worked at, any
8 particular one you remember multi-dwelling and multimeter?

9 A. I'm trying to think of some apartment complexes for you in
10 Maryland, D.C. and Virginia. Does it matter? Maryland, D.C. or
11 Virginia.

12 Q. Maybe Maryland, if you can.

13 A. Maryland would be better.

14 Q. If not, we're going to investigate.

15 A. When I was a service tech and first made it, my first 4 years
16 as a service tech, I was stationed at Rockville, and my particular
17 area was Calvert Street and Northwest D.C., American University
18 area, across the bridge there from the zoo, Adams Morgan, and then
19 I would work in Bethesda and Chevy Chase. And a lot of them
20 buildings in Bethesda and Chevy Chase have them row apartment
21 houses, you know, this --

22 UNIDENTIFIED SPEAKER: I (indiscernible).

23 MR. LAND: Yeah, well, they've got the row apartment houses
24 where you go in the front door, you open the front door and boom,
25 boom, apartment, apartment, apartment and then usually next to

1 these apartments, you'd open these cabinets up and be meter,
2 meter, meter, meter, and there would be regulators in there. So
3 that was about my extent of -- most of my -- I'm trying to think
4 back that far now for you.

5 BY MR. EMEABA:

6 Q. It's okay if you can't remember.

7 A. Yeah, yeah, yeah. So a lot of times when I was a helper,
8 we'd do -- and most of this is -- has to do with Northwest
9 Washington, D.C., you know, multifamily meter rooms that we have
10 in there with, you know, with 50, 75, 100 meters, things of that
11 nature.

12 Q. Okay. Which is fine with me. I just wanted to learn a
13 little bit more from you because I mean I'm not an expert in this
14 area. That's why you are here helping us out in this
15 investigation.

16 A. We are.

17 Q. If you can lead me through the process in your work when you
18 conduct a turn-on and turn-off process of meter, maybe customer
19 due to bill paying or not paying or you have to go to turn off the
20 gas line and later, when they finish their payment or the next
21 installment, you have to turn them on. How does that work? What
22 do you have to do when you go to turn on the customer?

23 A. Right.

24 Q. And what do you do when you go to turn off the customer? If
25 you can lead me through that.

1 A. Yep. So our requirements when, like multifamily that we're
2 talking about --

3 Q. Yes.

4 A. -- first we make sure the customer is home. Say we're going
5 there to turn the gas on.

6 Q. Yes, sir.

7 A. It was turned off for a previous tenant. So we make sure the
8 customer is home. We go into the meter room. We locate the
9 meter.

10 Q. Yes, sir.

11 A. And the first thing we are required to do is our leak checks
12 on the meter rack, service entry points, and to check the vent
13 line outside.

14 Q. Okay.

15 A. So those are the first three things that we should do prior
16 to turning the gas on to any customer even though they are home at
17 that time. So once we know that the area is safe, and if, you
18 know, if we run into a leak or anything of that nature then, of
19 course, we're calling our dispatcher. We're trying -- you know,
20 if the technician, if it's on a meter bar or something of that
21 nature, if it's something that the technician, the service
22 technician can repair at that time, then they will do that and
23 then proceed to turn the gas on for the customer. If it's
24 something that requires maybe an underground crew, operations crew
25 or rough-in crew, he will make a call to our dispatcher at that

1 time, and standby at that jobsite, and he still hasn't turned the
2 gas on for the customer that he's there to turn it on for.

3 So once we turn the gas on for the customer, we're required
4 to go into the unit, isolate the piece of equipment --

5 Q. Yes.

6 A. -- via, you know, a stopcock or gas valve some people might
7 call them, and we go down to the meter. We remove the disk and
8 the old washer on the outlet side. We put two new washers in. We
9 have to release a slight amount of gas, just to make sure that the
10 dial is turn on the meter. We like to catch the dial in the
11 upswing. So we're doing now what we call our house line test.
12 That means that everything inside has been isolated.

13 Q. Yes.

14 A. Once we tighten down these swivels, we've got the dial in the
15 upswing, we watch that for 5 minutes.

16 Q. Yes, sir.

17 A. And we make sure that that dial doesn't move. If the dial
18 proceeds to move, then we know that there's a leak somewhere.

19 Q. Yes, sir.

20 A. And for us, all we can do in a complex -- multifamily complex
21 is check the visible pipe with our ranger or rover to see if we
22 can locate the leak there, and that would be done in the meter
23 room or that would be normally -- most apartment complexes, the
24 customer has a range. Some of them have a range and a furnace out
25 on the balcony. So any exposed piping we can check with our

1 ranger or rover or our leak detecting equipment.

2 Q. Yes.

3 A. And if we don't detect anything there, we still have movement
4 on the dial, that tells us we have a leak somewhere in the line
5 that is enclosed, and at that point in time, we leave the gas
6 off --

7 Q. Okay.

8 A. -- and put a disk in it. We --

9 Q. For that particular meter or customer?

10 A. For that particular customer themselves that we was there to
11 turn the gas on for.

12 Q. Yes.

13 A. And then we give them what we call a danger tag.

14 Q. Yes.

15 A. The regulator is only checked on a multifamily unit --

16 Q. Yes.

17 A. -- if it's the first meter. So in other words, if we have
18 units 1 through 10 --

19 Q. Yes.

20 A. -- it's number 1 that we're doing the job at, that's when the
21 meter -- that's when the regulator is checked for the pressure
22 checks and things of that nature. The vent is always checked. Or
23 the units might be A through K, A would be the first one.

24 Q. Okay.

25 A. So if we're doing -- if we are doing a turn on, if we are

1 doing any meter work at that A or number 1, what we call the very
2 first meter --

3 Q. Yes.

4 A. -- that's when we're required to put a gauge on there and
5 check that regulator. Albeit on a multifamily rack, if, with 9 or
6 10 meters on there or 20 or 30 meters on there, you're not going
7 to be able to check static pressure unless everybody in there has
8 electronic ignition and nobody's home cooking or using their water
9 heater or their furnace. But you could still get a pressure check
10 on the regulator to see what pressure it is supplying at that
11 time.

12 Q. Yes.

13 A. And then you can check -- you're always checking your vent
14 line outside. That's one of your first three checks that any
15 technician on-site, whether it's a service tech or a rough-in
16 technician is required to do.

17 Q. Okay. Thank you so much. I really appreciate your
18 explanation and elaboration. That really helped me.

19 And the other one you mentioned is, you know, while you're
20 doing your turn on, the fact that you have to check the vent line
21 and so on.

22 A. Right.

23 Q. How do you do that? Can you just lead me through what is --

24 A. We check outside at the -- where the vent line comes up out.

25 Q. Yes, sir.

1 A. So, so when we're required to check a regulator for pressures
2 like that, whether it's a single family home or multifamily unit,
3 we're required to take the vent apart inside and make sure that
4 the vent line is clear to the outside. On a multifamily unit
5 building like that, if say we're doing -- say we're not required
6 to check the regulator because we're dealing with meter number 3
7 or meter number 4.

8 Q. Yes.

9 A. Our book says number 1. We're still required to check the
10 screen L on that vent line --

11 Q. Yes.

12 A. -- to make sure there's no mud daubers or anything like that
13 up in there, mud daubers being the spider that builds its --

14 Q. Yes.

15 A. We all know what mud daubers are. So we're required to do
16 that, and we're also required to make sure that there is screen on
17 that screen L. So if we have to replace the screen L to make sure
18 that we have a fresh screen and screen L on that rack. If the
19 screen L is there, we should screw that screen L off to make sure
20 that the mud daubers are not in there, so at least we know that
21 that portion of the vent line there is clear --

22 Q. Yes.

23 A. -- for breathing purposes and venting.

24 Q. Okay. Okay. So if the mud dauber is maybe for that inside,
25 how do you verify that?

1 A. Yeah. At that point in time, if the technician takes that
2 screen L off and he sees that there's some -- possibly the mud
3 dauber has -- the mud dauber has gone further deep down into the
4 pipe, then he's required to refer an order so we can take that
5 vent line apart and then we will blow that vent line out to make
6 sure that that vent line is clear. That's what -- the service
7 technician in the field would consider that a stopped up vent,
8 albeit it's visual, because if it's a mercury regulator, a service
9 technician is required to -- there's only certain personnel at the
10 gas company that are operator qualified to change out mercury
11 regulators.

12 So I guess you're privy to the procedure that we use and
13 everything, the bags -- okay. So you're -- and the Jerome meters
14 that we check for mercury vapor and everything of that nature,
15 like that.

16 A service technician can check a vent line on a mercury
17 regulator but he has to have -- he's required to have the -- it's
18 called a pump test kit. So that's the bucket, the bags, the
19 nitrile gloves.

20 Q. Yes.

21 A. And to have underneath that vent line to prevent any type of
22 mercury spill, if there is mercury in that line. Breathing vents
23 are important --

24 Q. Yes, sir.

25 A. -- I can tell you that.

1 Q. Yes.

2 A. That's a bit tadoo.

3 Q. And just to follow up with that, when you turn on -- turn on
4 would involve a first installed meter --

5 A. Um-hum.

6 Q. -- which also leads you to check the regulator --

7 A. Yes.

8 Q. -- checking the regulator, what kind of work do you actually
9 have to -- is it adjusting the regulator or what? And does that
10 work also involve you doing work with the vent line?

11 A. Yeah, they don't -- well, yes, I just --

12 Q. For a multi.

13 A. Like I just said, when they check that regulator --

14 Q. Yes, sir.

15 A. -- any time they're checking a regulator for pressure, we're
16 required to make sure that that vent line is clear.

17 Q. And how do you --

18 A. So if they're putting -- if they're putting a -- if they're
19 putting a gauge on because they're turning the gas on for meter
20 number 1 or meter number A, the first meter off the rack --

21 Q. Yes, meter A.

22 A. -- so what they're going to check on that regulator, they're
23 not going to be able to check low load or high load because you're
24 going to have 8, 9, 10, 15, 20 other meters on there, and there
25 could possibly be a load through it.

1 Q. Yes, sir.

2 A. We're basically just checking the setting of the regulator,
3 what type of pressure is it supplying now? We can't check static
4 or lockup because we still have flow of gas into the building.
5 They're required to make sure that the vent line is clear and
6 there's a pump test that they do on that vent line that hooks up
7 to a manometer, the same manometer that we use to check the
8 pressure on the regulator.

9 Q. Um-hum.

10 A. So this pump test ^{KIT (RFL)} ~~kit~~ is -- it looks like a rubber stopper,
11 and it's got a T brass fitting in it.

12 Q. Yes, sir.

13 A. And that's what hooks up to our manometer.

14 Q. Yes, sir.

15 A. And then we have another hose that hooks up to that where we
16 actually pump to make sure that the vent is clear and if the vent
17 is not clear or partially stopped up, then our manometer is going
18 to go up to a certain reading, and if it gets up to a certain
19 reading, then we know we have a partially stopped up vent. Then
20 an order is referred to make sure that the vent is cleared.

21 Q. Okay.

22 A. It's called a pump test.

23 Q. Pump test.

24 A. Yes.

25 Q. Vent pump -- I mean vent line pump test.

1 A. The vent line pump test, yes, sir.

2 Q. Eventually --

3 A. Well, we do that because we don't want people putting their
4 mouths or any other type of thing on piping. We don't want them
5 blowing a lot of pressure through the pipe, you know. We want the
6 service technician to be able to do it and we don't want them
7 cleaning the pipe off with a rag and blowing through with their
8 lungs through the pipe. That's not the way we want it done.

9 Q. So in this process, you actually have to literally disconnect
10 the vent line from the regulator --

11 A. Yes, sir.

12 Q. -- to do that, and then after, you have to connect it back?

13 A. Yes, sir.

14 Q. Okay. Thank you so much. I appreciate that.

15 MR. EMEABA: Thank you. That is it for now.

16 MR. CHHATRE: Thank you. Roger.

17 MR. EVANS: Yes, just a couple of questions.

18 BY MR. EVANS:

19 Q. Based on what I was hearing about the CAD system, at the time
20 of the accident, there was nothing in place to basically go back
21 and look at everything that had been done on that system from a
22 data standpoint. Is that correct?

23 MR. PRICE: Roger, this is Steve. I'm not sure I understand
24 the question but we have service history at 8701 and at all our
25 customers' services. So, yes, we had access and have produced the

1 service history for the apartment complex.

2 MR. EVANS: I was just curious. Are you loading that back
3 into your CAD system?

4 MR. PRICE: Yes. We -- we have not lost the service history.

5 UNIDENTIFIED SPEAKER: Right. It's been migrated.

6 MR. PRICE: Okay. So you are migrating information.

7 UNIDENTIFIED SPEAKER: Yes, sir.

8 MR. PRICE: Okay.

9 UNIDENTIFIED SPEAKER: Yeah, we're loading 2 years of data
10 into the system and then the legacy data is being stored in a
11 separate server.

12 MR. PRICE: We're not losing the service history is what I
13 mean to say. We haven't lost it.

14 BY MR. EVANS:

15 Q. And going back, Mr. Land, as far as your -- you probably have
16 more years of experience than anyone we've talked to in a while
17 about how many years you have actually on the tools. I'm just
18 curious as to can you kind of give us a summary of your experience
19 with mercury type regulators, the types of issues you've seen
20 through the years?

21 A. The issues that I've seen with mercury regulators over the
22 years has either been (A) venting, (B) we call them ~~bone~~ ^{BLOWN (RFL)} mercury
23 regulators which in the gas industry might not be the best choice
24 of words, but that's what we call it. In other words, so a
25 venting regulator would be -- it's probably been explained, is one

1 that is relieving due to either dirt on the seat or possible
2 higher pressure, and that's why it relieves.

3 The blowing mercury regulator or blown, b-l-o-w-n, is
4 normally the ones that we get where a customer has replaced a
5 piece of equipment, a furnace, a water heater, a range, and the
6 plumber has taken it upon themselves to turn the gas off at the
7 high pressure service. Then they've installed the new piece of
8 equipment and they have turned the gas back on to a mercury
9 regulator from a 20 pound service too quickly thereby rushing the
10 gas into the regulator, thereby blowing that mercury out and
11 normally the mercury either lands on the ground or it stays into
12 the vent, the vent piping.

13 And the third issue that I've seen with merc regs is, you
14 know, they're like any other regulator. Over time, they're set at
15 6, 6 1/2 inches water column, somewhere of that nature, and then,
16 you know, you go back and maybe it's dropped down to 5, 5 1/2.
17 Maybe the spring is worn out inside or something of that nature.
18 Anyway, it's not giving the same flow and constant pressure to the
19 customer that it did its first, you know, 20, 30, 40 years of
20 life. And at that point in time, we change them out.

21 Q. Okay. Have you personally witnessed this -- what we've read
22 about, what we've heard about, and we've heard other people tell
23 us about, the whale squeal that you hear out of a mercury
24 regulator when it's having issues? Have you heard that before?

25 A. Never heard it, sir.

1 Q. Okay. That's nothing -- you never had that. Okay.

2 A. No, not --

3 Q. What about the -- have you ever had a situation where the end
4 user had line pressure from a malfunction of a mercury regulator?

5 A. I got to tell you, in 36 1/2 years here, I've never seen that
6 from any regulator, not a spring loaded regulator or mercury
7 regulator. In fact, I've never seen any regulator blow at service
8 pressure.

9 Q. Okay. That's good. That's all I have. That's all at this
10 time. Thank you so much.

11 A. Okay. Yes, sir.

12 MR. CLEMENTSON: John Clementson, I have one.

13 BY MR. CLEMENTSON:

14 Q. Besides the operator error on mercury regulator, the plumber
15 turns it on too fast --

16 A. Yeah.

17 Q. -- the failures that you've said you expect to see out of it,
18 are they common, the same type of failures you would expect to see
19 out of a spring loaded regulator?

20 A. Yes, the only difference being is that the mercury regulator
21 -- a spring loaded regulator I think maybe one time, and that
22 probably was on a 50 pound system where it was turned on too fast,
23 and it burst the diaphragm in that regulator. That's a 50 pound
24 system. But as far as mercury and spring loaded regulators are
25 concerned, no, it's -- they both operate exactly the same, exactly

1 the same. I wish, I wish the regulators nowadays were built, you
2 know, like the mercury.

3 MR. CLEMENTSON: That's it.

4 LT. OLIN: Bill Olin, Montgomery County.

5 BY LT. OLIN:

6 Q. You mentioned something early on, 121 --

7 A. It's a 121 code which is a supply order for us, yeah.

8 Q. A supply --

9 A. Supply code.

10 Q. -- turn on.

11 A. So if someone -- yeah, turn on. Someone's moving in, yeah.

12 Q. Okay. That's all. I hadn't heard that before.

13 MR. CHHATRE: Steve, Doug.

14 MR. PRICE: None for me.

15 MR. STAEBLER: Yeah, Bobby, just -- Doug Staebler, Washington
16 Gas.

17 BY MR. STAEBLER:

18 Q. You had talked about the service technicians doing work on a
19 meter bank, a meter in a meter bank, and they would go in and
20 they'd look at, I'm thinking in a case where there's two
21 regulators and parallel. They get a reading, a pressure check and
22 the pressure's not right. Would that service tech go back and
23 then adjust those regulators and disconnect the vent and do a pump
24 test or do they call rough-in to come out and do that?

25 A. In days past on a mercury regulator, they could adjust them.

1 Unless they're operator qualified now, we don't want them
2 adjusting mercury regulators because we do not want them to take
3 the cap off that regulator.

4 Q. And now meaning?

5 A. We don't have a problem with them disconnecting the vent line
6 to do the pump test on the vent because only if they have their
7 mercury regulator kit with them, i.e. bucket, the bag, the nitrile
8 gloves, the duct tape, all that different stuff like that, that we
9 use, it sounds primitive, but it works very well. They carry that
10 to do the pump line test on the -- the pump test on the vent line,
11 but we don't want them taking that cap off that mercury regulator.

12 Q. So if I'm going into 8701 Flower Branch, 15 meters, I'm doing
13 a turn on --

14 A. Yep.

15 Q. -- for unit 3, I would bring -- and there's two mercury
16 regulators in there, I would bring in that vent pump kit and do a
17 vent pump test on that vent?

18 A. If you're working with the number 1 meter. Only if you're
19 working with the -- only if you're turning gas onto that number
20 one meter. If you're turning gas off to that number 1 meter,
21 you're not required to do it. Only turning gas on.

22 Q. And what's the number 1 meter?

23 A. The number 1 meter is if the units are labeled 1 through 10,
24 or if they're labeled 101 through 110, 101 is the number 1 meter.
25 Number 1 is the number 1 meter if they're A, B, C, D, E, F, G, H,

1 I, J.

2 Q. Okay.

3 A. A is the number 1 meter. Number 1, which is normally the
4 first one off the rack, but it depends on how the plumber would
5 have run the pipes in the past. Normally it's the number 1 meter
6 right off of the rack, the one closest to the regulator.

7 Q. Okay. And then you mentioned, too, that like a service tech
8 wouldn't change out mercury regulator. So a service tech, if they
9 went to a single family house --

10 A. Right.

11 Q. -- which is a spring loaded regulator that had failed, who
12 would change -- they would change out that regulator?

13 A. Spring loaded regulator.

14 Q. If it's a mercury regulator, then they would refer it to
15 rough-in?

16 A. That's correct.

17 Q. And why would they refer it to rough-in?

18 A. Because the rough-in construction guys are the ones that are
19 operator qualified to change our mercury regulators. They're the
20 ones we also send to the doctor once a year to get tested for
21 mercury.

22 Q. So what's the difference between changing out a spring loaded
23 regulator and a mercury regulator? What's the difference in
24 qualifications and requirements? Why is there a difference?

25 A. Because of the mercury.

1 Q. So it's not -- nothing to do with the regulator, how it
2 operates.

3 A. It has nothing to do with --

4 Q. It's just because --

5 A. No, no, it has nothing to do with the operations of the
6 regulator. It has nothing to do with the size of the pipe. It
7 has nothing to do with using a 10, 14, 18 inch wrench and pipe
8 dope and leak checking afterwards and checking to make sure that
9 the regulator, high load, low load, lockup, vent is clear. It has
10 nothing to do with that. It has everything to do with the mercury
11 period.

12 Q. Right.

13 A. We take a lot of pride in not having mercury spills and doing
14 it properly on mercurys. We take mercury very seriously.

15 Q. And now I guess since you're managing and only 10 days into
16 it, the contractor side of it --

17 A. That's funny, right, 10 days.

18 Q. -- are you aware of a proactive mercury replacement program
19 where we're actively going out and using contractors to change out
20 mercury regulators that are -- that haven't failed, that are just
21 in our system and --

22 A. They do change our mercury regulators. In years past, there
23 had been money budgeted where we were hard on these mercury
24 regulator changes and then once the contractors reached that
25 specific point, then they would cease and desist with the mercury

1 regulators and then mercury regulators were changed out on an as
2 needed basis, and that means is it changed because, you know, the
3 pressure, the malfunctioning, the venting of the regulator, you
4 know, at the vent, anything of that nature, like that. I am not
5 aware of any such program right now.

6 Q. Okay. So each year we budget a certain amount of --

7 A. I would hope that somebody would contact me in maybe the net
8 month and we'll talk about some budget dollars and we can get
9 something going.

10 MR. STAEBLER: Okay. That's all I have.

11 MR. LAND: To add to that though, we do know that when the
12 technicians are out in the field and they may encounter a mercury
13 regulator, say they're just reading a meter for a customer that
14 comes in, they do refer that mercury regulator though. I wanted
15 to add that. So it's not like we look at them and do nothing
16 about it. Even though we don't physically change it at that point
17 in time, we know it's there and we know it has to be done, and we
18 schedule it appropriately with the customer.

19 MR. CHHATRE: Ravi Chhatre, one follow-up question.

20 BY MR. CHHATRE:

21 Q. With your earlier assignment, not current assignment, do you
22 -- can you give me an estimate as to how many mercury regulators
23 -- I know you said we changed hundreds of regulators. It's not a
24 new or special item for you.

25 A. Yeah.

1 Q. But do you have any idea as to --

2 A. Well, I can tell you some people laugh because they think I'm
3 a little OCD, but I can tell you many moons ago, I had this
4 beautiful tracking sheet that I tracked how many merc regs, just
5 my rough-in crews were changing, and we were right around 500 a
6 year, and the contractors were changing more than that. So, you
7 know, if they took the budget dollars and how much we were paying
8 them to do them, somebody probably has that data somewhere back in
9 contractor services of how many merc regs were changed out by our
10 contractors and, you know, company crews somewhere. I would say
11 -- that was in a year's time, I don't know, 2, 3, 4,000 maybe.

12 Q. Mercury have been changed?

13 A. That would just be my guesstimate.

14 Q. Sure, I understand.

15 A. That would just be my guesstimate.

16 Q. Yeah, and what about the spring? Do you replace any of the
17 spring loaded --

18 A. We replace them for the same reason that we would any mercury
19 regulator.

20 Q. Sure.

21 A. A regulator is a regulator is a regulator.

22 Q. Well, all I was asking you, what kind of numbers you are
23 talking about for the spring? I mean I know you said several
24 thousand for mercury. How many for spring? If you can -- if you
25 have --

1 A. Yeah, spring loaded I never tracked them because spring
2 loaded is -- and you have to understand that we have some spring
3 loaded regulators that are -- have been out there 10 years, 20
4 years, 30 years.

5 Q. Sure.

6 A. We have different models and types of regulators because, you
7 know, regulators get updated --

8 Q. Um-hum.

9 A. -- and we're always looking for the latest and greatest which
10 is, you know, good. I really can't give a number to that. It --
11 I don't want to lead us in the wrong direction and take a wrong
12 guess.

13 Q. That's fine.

14 A. Because I would only be speaking for my crews --

15 Q. No, that's okay.

16 A. -- and the possible technicians at Springfield, in the
17 Virginia area. I don't think -- in my opinion, in my 36 years of
18 service, I don't think we have a really high failure rate of
19 regulators in my opinion, whether they're spring loaded or
20 mercury.

21 MR. CHHATRE: Can we get some kind of information, that is
22 the one he gave me, what he's talking about, how many were
23 replaced in terms of --

24 UNIDENTIFIED SPEAKER: Yes.

25 MR. CHHATRE: -- spring loaded, if you can, give me -- at

1 least to start, let's just get 2 years.

2 UNIDENTIFIED SPEAKER: For the spring loaded side.

3 MR. CHHATRE: Yeah, I mean both spring loaded --

4 UNIDENTIFIED SPEAKER: Yeah, yeah. So the spring loaded will
5 be mostly just failures because or I'm not sure, there may be
6 sizing. I'm not sure we even counted those but there's no --

7 MR. CHHATRE: Something I can compare.

8 UNIDENTIFIED SPEAKER: Yeah, yeah.

9 MR. CHHATRE: And we've got younger. I realize that they
10 much younger than your mercury regulators.

11 UNIDENTIFIED SPEAKER: Yeah, but they're not built like
12 mercury regulators either.

13 MR. CHHATRE: Anybody have any follow up questions?

14 LT. OLIN: Yeah, I've got one.

15 MR. CHHATRE: Go ahead.

16 LT. OLIN: Bill Olin, Montgomery County.

17 BY LT. OLIN:

18 Q. So you said meter 1 is the first one --

19 A. Yeah, and normally meter 1 is the first one off the rack.

20 Q. Okay. So if -- I don't have a picture of it, but if there
21 are two rows of meters and you have two meters that are right
22 next, are there --

23 A. The top meter.

24 Q. The top, all right.

25 A. The meter closest to the regulator is normally the number 1

1 or the number A meter. When we would set meter racks up, then it
2 would be, you know, A, B, C, D, E, and so and so liked that. So
3 it looked -- believe it or not, we like things to look uniform,
4 and we -- normally our racks are put in well before the plumber is
5 there or maybe the plumber has his pipes. So as we put these
6 meter bars in and these racks in, you would label them, you know,
7 A, B, C and then the plumber would come in and everything, you
8 know, when you're all said and done, and you come in there, and
9 it's -- it's pretty to more people than a pipe man, and that's
10 what we like.

11 Q. These are pretty yellow.

12 A. They are bright yellow. I walked every one of them buildings
13 that day up there. That was the closest I ever came to heat
14 stroke. It was hot.

15 BY MR. PRICE:

16 Q. Bobby, I'm not -- Steve Price, Washington Gas. I'm not sure
17 you know the answer to this but on a multimeter rack where there
18 is no procedural requirement to do a vent line pump test or do
19 anything with the regulator --

20 A. Right.

21 Q. -- and that technician were to check the vent clearance on
22 the outside as you described.

23 A. Yeah, to make sure the vent is clear.

24 Q. Correct.

25 A. Right.

1 Q. How would that be reflected or would it be reflected in the
2 old CAD?

3 A. So in the old CAD, it's going to say -- I think it's -- I
4 don't want to get it wrong. I'm not -- I think it says vent clear
5 or vent check.

6 Q. Okay.

7 A. It says one of the two, and it might say both.

8 Q. Okay.

9 A. In the old CAD. It was a screen. It was a mandatory screen.
10 So like odorant, vapor test was on there, and then it would -- the
11 vent line was right below that. That was the three major things
12 on there, but there's other things on there that were required,
13 that they would not be able to complete that thing, the order, and
14 their CAD or their new tablet, until the required screens were
15 filled out, kind of like when you go online and you want to buy
16 something and they keep asking that right there, and you've got to
17 -- it's the same exact thing like that.

18 Q. Okay. So whether they did a pump check or just check the
19 screen, that's the field they would just check yes.

20 A. Yes, sir. Um-hum.

21 LT. OLIN: Bill Olin again.

22 BY LT. OLIN:

23 Q. Do you recall if the mercury regulator would have been a
24 required field on that?

25 A. That was later in the game. So the --

1 Q. A checkbox on there.

2 A. Yeah. They changed that in the CAD -- let's see. We've been
3 at the new building how long now? Five years. Five. So, let's
4 see. That would be 4, 5 -- it had to be 10, 12, 14 years ago
5 where it was made mandatory on the CAD for -- a check block was
6 added, if there was a mercury regulator at the home or the
7 multifamily, wherever they were.

8 Q. Just to identify that --

9 A. Just to identify that there was a mercury regulator there,
10 yes, sir. Um-hum.

11 Q. And that would have been required --

12 A. I'll tell you who would know that would be Karen maybe.

13 Q. And that would have been a required field to continue to
14 submit the report?

15 A. Yes.

16 Q. Okay.

17 A. Um-hum.

18 BY UNIDENTIFIED SPEAKER:

19 Q. And then -- so then one more thing, like thinking about
20 putting that field in there, tracking mercury regulators, other
21 than the issue with mercury and contamination of mercury. In your
22 experience, would there be any other reason that you would want to
23 replace -- proactively replace the mercury regulators that we
24 would identify in the track of --

25 A. Yeah, I would like to replace them with customers and close

1 them. So in other words, when a customer rehabs their basement,
2 right, they put a new washer and dryer in, and then they put some
3 drywall up and this and that, and everything like that. So, you
4 know, the next thing you know, now we've got our meter covered and
5 you can just see a little thing, and sometimes they'll put a
6 little door in. They open the little door. Well, you can get to
7 your meter. Well, no our regulator is back behind here. So, you
8 know --

9 Q. I mean for mercury regulators, is there any reason that you
10 would see that we would want to proactively replace mercury
11 regulators other than the mercury problem?

12 A. Well, listen, for me, it would be for updating the system for
13 the customer, but more importantly -- well, just as important, in
14 my humble opinion, for Washington Gas, we have to -- we have to
15 operate or qualify certain individuals to be able to change these
16 mercury regulators. We purchase Jerome meters for 6 to \$8,000
17 apiece. We have special procedures to change mercury regulators.
18 If it's a mercury regulator on the weekend or Sunday, Saturday
19 night, you know, you only have specific crews on. So now we're
20 going to call somebody out. For me, for us to go out there and
21 proactively change these mercury regulators to get them out of our
22 system and go to our updated spring loaded regulator, for us, I
23 think the front end money that would be spent for however many
24 year plan that we would have would be a little substantial but I
25 think for the long run, in the end, 20, 15, 10 years, whatever it

1 is for us, I think it's absolutely cost saving for us.

2 Q. I guess my question, you know, is for the operator.

3 A. Did I take it off path there?

4 Q. If there was water in here instead of mercury, if it was a
5 water sealed regulator, would there be a reason to replace these
6 given that they're not going to freeze and all that stuff and
7 evaporate?

8 MR. CHHATRE: Even if it was Freon, we would.

9 MR. LAND: No, there's not.

10 UNIDENTIFIED SPEAKER: Right.

11 MR. LAND: Because it's a fantastic regulator. I can tell
12 you, and I just -- and I -- it can wait until we turn the recorder
13 off and I'll tell you a little story about Lowe's. I went to
14 Lowe's last night and bought two new thermostats because my two at
15 home are mercury and my heat anticipator on them I think is gone,
16 and I went to Lowe's and I was a little disappointed to buy the
17 Honeywell thermostat and they're battery and springs, and I'm
18 like, yeah. The T67 turned into a T87, and I'm a little
19 disappointed that my thermostat doesn't have mercury, but that's
20 -- it's a great, great regulator. I mean no regulator would sit
21 out there. How long would it sit out there for that long and just
22 continually work? It just does it. It just keeps giving, you
23 know. It's like any other piece of equipment, you know.

24 MR. CHHATRE: This is Ravi, NTSB.

25 BY MR. CHHATRE:

1 Q. Can you do one more time, you said for first meter, you will
2 do something with the regulator that is (indiscernible) or
3 pressure test or -- will you be -- I'm not quite clear I
4 understand that.

5 A. Right, right. So in our operations and maintenance manual on
6 a multimeter rack, for -- if you're turning gas on to a meter, any
7 time we turn gas on to a meter, we always check the regulator
8 except in an outage. So if we have an outage where we lose 100
9 homes, 3,000 homes, if the gas has been off for less than 24
10 hours, we're not required to check the regulator.

11 For a multifamily unit, if the gas has been off for over 24
12 hours, and it was turned off because the old tenant moved out, the
13 new tenant moves in, now we've got a 121 turn on supply order.
14 The first meter off is usually meter number 1, 101, number A, what
15 have you like that. So we put -- we drop that meter down, we put
16 our gauge up on there, our manometer, and we check that regulator
17 setting. The only setting you can check is the -- well, it's
18 going to be low load or high load, either one. You're not able to
19 check static because the other meters are on. So you do that just
20 to see what your regulator --

21 Q. Is putting out.

22 A. Exactly.

23 Q. Okay.

24 A. Exactly, and then you do your vent test.

25 Q. And then at that time you do the vent test?

- 1 A. At that time you do your vent test.
- 2 Q. That's the time --
- 3 A. Any time you're checking your regulator like that, you're
- 4 supposed to be doing your vent test.
- 5 Q. That is when you're going to view the coupling and put your
- 6 line through and pressure through the --
- 7 A. The pump test.
- 8 Q. The pump test.
- 9 A. The pump test, yes. Um-hum.
- 10 Q. But you have to disconnect the coupling?
- 11 A. You have to disconnect the union because you have to get the
- 12 -- you have to get the rubber cork in there with the -- it's a
- 13 brass T on there. You'd have to see it.
- 14 Q. If you're replacing or reconnecting let us say meter number
- 15 4, and --
- 16 A. No need to check the regulator or do the vent line test.
- 17 Q. Only if you're doing with number 1, then you have to do all
- 18 this?
- 19 A. Yes, sir.
- 20 Q. Gotcha.
- 21 A. Right, but if you're doing meter number 4, you've got to
- 22 check that screen L outside for mud daubers --
- 23 Q. Right, right.
- 24 A. -- or anything else.
- 25 Q. You have to clean the vent line at that time on the

1 regulator, correct?

2 A. Yes, sir. Um-hum.

3 Q. Great. Thank you.

4 UNIDENTIFIED SPEAKER: Just one more thing. I'm sorry,
5 Kelly. We you going?

6 MR. EMEABA: Yes.

7 BY MR. EMEABA:

8 Q. I just wanted to continue with Ravi's question and maybe -- I
9 didn't ask you to draw the schematic, but I drew something that
10 may be of help to me. For instance, in this multi-dwelling --

11 A. Um-hum.

12 Q. -- you have -- I know Lt. Olin was trying to describe it.

13 A. Yeah.

14 Q. If the pipe is done this way because it annunciate -- if it
15 split here, then the pipe goes this way and from the construction.

16 A. Um-hum.

17 Q. Now you have this meter, this meter, this meter.

18 A. Meter.

19 Q. So the one on top --

20 A. Yes, sir.

21 Q. -- is the meter I want.

22 A. Yes, sir.

23 Q. Okay. That just what he was puzzled and I myself wanted to
24 say in a case like this, how do you know which one is meter 1.

25 A. Um-hum.

1 Q. Okay. This top meter, that is meter 1?

2 A. Yes.

3 Q. So this one does not count. Even though they're also equally
4 closer, because one would have said which one is closest to these
5 regulators?

6 A. Right here.

7 Q. Okay.

8 A. The top meter.

9 Q. Okay. Thank you so much. That answers my question. I
10 appreciate it.

11 A. Nice drawing by the way. You did good.

12 BY UNIDENTIFIED SPEAKER:

13 Q. So here's just a -- I've probably driven the bomb squad truck
14 half a dozen times today. We all know that's not the case because
15 I've been here, but it satisfies the need to check a box on the
16 report. Do you think in you all's reporting writing that there
17 would be people out there that would just check a box to make that
18 report go away on your -- is that a possibility?

19 A. Well, I can't -- I can't surmise on that situation. I mean,
20 you know, there could be.

21 Q. Right.

22 A. The Metro guys got fired and they said they filled the
23 reports out properly --

24 Q. Yeah.

25 A. -- you know. So the only thing I can say to that is that we

1 go through extensive training for our service technicians, all the
2 way up from when they start as service assistant. All -- we have
3 very good training facilities for our people. We train fire
4 departments and all kind of different people come over for
5 different type of refresher training and everything, and we take a
6 lot of pride in that. So you would hope that once they've been an
7 assistant service technician for a period of time, and then they
8 move up to service technician, the whole time they're being
9 supervised and trained, and requalified and operator qualified,
10 you can't be out there every last single minute watching every
11 last single person, right, as a supervisor. So you're relying on
12 the training that they've had, the operator qualifications that
13 they've had and with all that said and done, they should be doing
14 the right thing, is what they should be doing.

15 Q. I think I remember seeing a service report that said -- it
16 was checked that there was no mercury regulator and, in fact --

17 MR. CHHATRE: That's when we were documenting --

18 BY UNIDENTIFIED SPEAKER:

19 Q. -- the mercury regulator had actually -- was removed at the
20 time of the accident and this report was -- so that's why I was
21 just sort of going down -- I just -- I mean --

22 A. And that wouldn't surprise me that possibly that technician
23 that was there was not certain if that was a mercury regulator or
24 not. We have a lot, a lot of different regulators in the field,
25 and do we need to retrain some people? Yes, absolutely sometimes

1 we do, and we do things of that nature like that. So, you know,
2 what was he looking at when he checked the box? Was he looking at
3 anything? I can't speak for that technician. If I got to talk to
4 him I could.

5 Q. Okay.

6 MR. CHHATRE: If not, thank you very much for the help and
7 staying quite late for us. I appreciate your help in this
8 investigation.

9 MR. LAND: Okay.

10 MR. CHHATRE: Off the record.

11 (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: THE EXPLOSION OF APARTMENT
BUILDING 8701 OF FLOWER BRANCH.
APARTMENTS IN SILVER SPRING,
MARYLAND ON AUGUST 10, 2016
Interview of Robert Land

ACCIDENT NUMBER: DCA16FP003

PLACE: Washington, D.C.

DATE: January 31, 2017

was held according to the record, and that this is the original,
complete, true and accurate transcript which has been transcribed
to the best of my skill and ability.

Kathryn A. Mirfin
Transcriber