

UNITED STATES OF AMERICA

NATIONAL TRANSPORTATION SAFETY BOARD

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Investigation of:

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CON EDISON NATURAL GAS RELEASE  
WITH IGNITION  
HARLEM, NEW YORK  
MARCH 12, 2014

Docket No.: DCA-14-MP-002

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Interview of: JOHN LUDWIGSEN

Con Edison  
4 Irving Place  
New York, New York

Monday,  
August 4, 2014

The above-captioned matter convened, pursuant to notice.

BEFORE: RAVI CHHATRE  
Investigator-in-Charge

## APPEARANCES:

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Washington, D.C.

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LEONARD SINGH, Chief Engineer  
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Con Edison  
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(Party Representative)

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Washington, D.C.

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MR. CHHATRE: Good morning.

MR. LUDWIGSEN: Good morning.

MR. CHHATRE: Today Monday, August 4, 2014. We are currently in Con Edison's facility, located at 4 Irving Place, New York. We are meeting regarding the investigation of natural gas distribution pipeline leak and multistory structure explosion that occurred on March 12, 2014 in Harlem, New York.

My name is Ravi Chhatre. I am with National Transportation Safety Board located in Washington, D.C. and I'm Investigator-in-Charge of this accident. The NTSB investigation number for this accident is DCA-14-MP-002.

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

Also, I'd like to inform Mr. John Ludwigsen that you are permitted to have one other person present with you during the interview. This is a person of your choice: your supervisor, friend, family member, or no one at all.

Please state for the record your full name, spelling of your name, organization you work for, your title, business contact information such as mailing address, and whom you have chosen to

1 be present with you during today's interview.

2 MR. LUDWIGSEN: Okay. My name is John Allen Ludwigsen,  
3 that's J-o-h-n, A-l-l-e-n, L-u-d-w-i-g-s-e-n. I'm a senior  
4 engineer in gas distribution engineering. My mailing address is  
5 [REDACTED]. And I have Bob  
6 Albano, who is my person here that is --

7 MR. CHHATRE: I'd like to go around the room and have  
8 everyone introduce themselves. Again, please state your name,  
9 spelling of your name, your title, organization that you represent  
10 and your business contact information. We'll start from my right.  
11 Matt?

12 MR. NICHOLSON: Matthew Nicholson. I'm an investigator  
13 with the NTSB. That is spelled M-a-t-t-h-e-w, N-i-c-h-o-l-s-o-n.  
14 E-mail address is [REDACTED]

15 MR. EMEABA: I'm Kalu Kelly Emeaba, K-a-l-u K-e-l-l-y  
16 E-m-e-a-b-a. I'm an investigator with the NTSB. My e-mail  
17 address is [REDACTED]

18 MR. McCARTON: My name's Frank McCarton, it's M-c-C-a-r-  
19 t-o-n. My e-mail address is [REDACTED] I'm a member  
20 of the New York City Office of Emergency Management, but I'm also  
21 the New York City party rep on this investigation for the Harlem  
22 explosion.

23 MR. GEORGELIS: Anastasios Georgelis, A-n-a-s-t-a-s-i-o-  
24 s, Georgelis, G-e-o-r-g-e-l-i-s. I'm with the New York City  
25 Department of Environmental Protection, Water and Sewer

1 Operations. I'm the Director of Field Operations. My e-mail  
2 address is [REDACTED]

3 MR. SINGH: Leonard Singh, L-e-o-n-a-r-d, S-i-n-g-h,  
4 Chief Engineer, Gas Distribution Engineering, NTSB party rep  
5 representing Con Edison, [REDACTED], s-i-n-g-h-l at

6 [REDACTED]

7 MR. STOLICKY: Chris Stolicky, S-t-o-l-i-c-k-y. Title  
8 is Utility Supervisor (Safety) with the New York State Department  
9 of Public Service. E-mail address is  
10 [REDACTED] I am the party rep for New York  
11 state.

12 MR. Albano: Robert Albano, R-o-b-e-r-t, A-l-b-a-n-o,  
13 Con Edison. I'm accompanying Mr. Ludwigsen at his request.

14 INTERVIEW OF JOHN LUDWIGSEN

15 BY MR. CHHATRE:

16 Q. Okay. John, for the record, can you state your formal  
17 education and training, years in the company, your current title?

18 A. Okay. I have a mechanical engineering degree from  
19 Rutgers University. I also have a Master's of Business  
20 Administration also from Rutgers University. I've worked with  
21 Baltimore Gas and Electric in their nuclear power plant for 5  
22 years, worked with Elizabethtown Gas for 10 years, and then I've  
23 been with Con Edison here in, I guess, engineering for 7 years  
24 now.

25 Q. And at your current position, can you describe what your

1 responsibilities are?

2 A. I've been working in the standards and reliability  
3 group, and then I got kind of transferred over into field  
4 engineering and system reliability, but my job stayed the same. I  
5 work on our distribution integrity management program. I've been  
6 doing that since the inception of that back in 2011. I also am  
7 kind of the coordinator for the public awareness program and have  
8 been doing that since I started with the company, for the past 7  
9 years.

10 I also do some of the reporting for the mechanical  
11 fitting failure reports, do the plastic failure reports and help  
12 out in a few other, you know, like areas in -- with our standards  
13 and things like that and posting them up onto the websites.

14 Q. So you are responsible for DIMP?

15 A. Um-hum.

16 Q. Can you, maybe, really, really briefly, walk us through  
17 when the program started with Con Edison, how it was developed,  
18 and your involvement and what the program focuses on?

19 A. Okay, um-hum. Well, the rule had -- we had to have a  
20 distribution integrity management program in place by August of  
21 2011. We adopted the Northeast Gas Association and the Southern  
22 Gas Association's framework that they had developed. We had also  
23 gone ahead and hired Structural Integrity, who was the one who  
24 wrote up that framework, and they helped us -- and it was our  
25 contract -- they helped us developing our own Con Ed-specific

1 program using that framework plan.

2           What was the second part of the -- you wanted -- so  
3 that's kind of the basics, that we -- you know, we had everything  
4 implemented by the August of 2011 date, you know, capturing all  
5 the different parts of the plan that are required in there.

6           Q.    And when did you start working on the program itself,  
7 before you finished it?

8           A.    Well, we had been waiting for the rule for several years  
9 beforehand, so we were just kind of waiting for the rule.

10          Q.    Okay.

11          A.    So once the rule had come out, I had started working on  
12 it.

13          Q.    Okay.  And when did you finish it?

14          A.    The August 2011 --

15          Q.    Okay, so you met the deadline?

16          A.    Yeah, um-hum.  And since then, we've done an annual  
17 update in -- by the April -- we set it up so that our deadline was  
18 April 15th.  We did one, a complete program evaluation in 2012 and  
19 again in 2013.  I'm sorry, 2000- -- so no, it was --

20          Q.    '12, was it?

21          A.    Right, we did two of them.  Got to make sure I get my  
22 dates right.

23          Q.    Well, if you don't know the dates, when it comes back to  
24 you, we can update.

25          A.    Right.  I might -- well, the last -- this 2014, which

1 was for program 2013, we had only did the annual review on that  
2 one, not a complete evaluation.

3 Q. So for this integrity management program, is it supposed  
4 to be reviewed annually or every 2 years, or --

5 A. We have it set up on -- the rule requires you to do it  
6 for 5 years. We have it set up as a 3-year. But since then we've  
7 done the complete one, the complete evaluation the first 2 years,  
8 after we put it in, in August.

9 Q. Okay. So the rule says 5 years, but you are doing it --

10 A. Every 3 years.

11 Q. -- every 3 years.

12 A. Or if situations change and we feel like we need to do  
13 it again, we'll go ahead and do it at any point.

14 Q. And the review is a total overhaul of the report or  
15 certain sections of it, this 3-year review?

16 A. The 3-year is a complete program reevaluation.

17 Q. And who does that?

18 A. That's me leading it, with the distribution, you know,  
19 DIMP team that we have. You know, the different operating areas,  
20 our lab and, you know, all --

21 Q. And you select the team or somebody else does for you?

22 A. Working with my manager, we select who the team members  
23 are going to be.

24 Q. Okay. So your manager is the person you report to?

25 A. Um-hum.

1 Q. And how do you get a commitment from the people you  
2 choose?

3 A. I don't know. They just -- we ask them and they --

4 Q. The people volunteer.

5 A. Yeah, they're willing to do it.

6 Q. Is there a guideline of what the team should be consist  
7 of, that certain people from certain departments are mandatory or  
8 it's just your discretion?

9 A. Well, we try and get somebody from each of the different  
10 operating areas, somebody who has a lot of years of experience in  
11 the company, who knows what's been going on, you know, way back.  
12 You know, some people have 40 years' experience in here. We also  
13 get the lab involved also because they have a lot of experience  
14 with the failures that we've been seeing, so --

15 Q. And in developing the program, did you guys look at the  
16 past failures, in developing the program, to identify your  
17 threats?

18 A. Yes, we have. Our basic program is that we look at 6  
19 years' worth of data, which is based upon -- we chose 6 years  
20 because that's two times of our non-business district surveys,  
21 which we do every 3 years. You know, that's in our actual  
22 developing our risk ranking and things. But from the standpoint  
23 -- we looked at our entire history when we were doing our initial  
24 setup, you know, when we had our SME interviews and, you know, we  
25 had a whole guideline of what -- you know, have you seen these

1 things in the past? So that was for the -- the initial one was  
2 going all the way back, as many years' experience as people have  
3 had.

4 Q. My questions more involve -- really are focusing up to  
5 the point of the accident. So anything you guys --

6 A. Okay.

7 Q. -- anything you guys did after the accident, you know,  
8 if you want to mention that, mention specifically.

9 A. Okay.

10 Q. But my questions are really focusing on before the  
11 accident.

12 A. Um-hum.

13 Q. Now your trade identification, what consideration was  
14 given to plastic pipes and plastic fusion joints and things like  
15 that?

16 A. Well, we based everything on our repair history, and  
17 that's entered into our graphic -- our gas inspection system, GIS,  
18 not to be confused with the geographic information system. In  
19 there when they're doing a repair, they mark, you know, what  
20 material it was and what they feel that the cause code was on  
21 there. We have several different leak cause codes and we have a  
22 little table that summarizes which of those cause codes go into  
23 the different threat categories in our DIMP program.

24 And if they send the sample -- you know, when they took  
25 a section out, if they send it to the lab, that's marked onto GIS

1 and the lab will do an analysis of that and we'll get back what  
2 the results of that are.

3 Q. And who makes the inputs in your GIS system?

4 A. It would be the mechanic actually doing the repair or  
5 the supervisor.

6 Q. Mechanics or the supervisors?

7 A. Mechanic or.

8 Q. Okay. And how does the mechanic give the information if  
9 he or she is not directly sending it to the system? How does it  
10 get into the system, to the supervisor? What is the process for  
11 that?

12 A. That, I am not really sure on that end of it. I don't  
13 get involved. That would -- I don't get involved into that area  
14 of it.

15 Q. Understand. And how often you guys look at the  
16 information that's in GIS?

17 A. Well, depending upon what it is and plastic failures, I  
18 have to look at it monthly because I send a monthly report to the  
19 AGA and a report goes quarterly to the PSC. So I'm constantly  
20 looking at it from the standpoint of the plastic failure. Some of  
21 the other ones I don't look at. Yeah, the other failure types we  
22 really don't look at, except during the annual review.

23 Q. Okay.

24 A. Unless we happen to hear of something that's going on  
25 into -- you know, we're getting a rash of particular types of

1 failures, then we'll go ahead and investigate further.

2 Q. So with your, I guess, experience with Con Edison and  
3 years of experience prior to that, what are the safety factors you  
4 identified with the plastic pipe? Issues, rather, safety issues?

5 A. Well, from the standpoint of plastic failures, the  
6 majority of our failures have occurred on our Kerotest valves that  
7 we had installed back in the early '90s.

8 Q. Which valves? I'm sorry.

9 A. Kerotest.

10 Q. Okay.

11 A. It's a nut follower valve on there and there's been some  
12 issues, and that's been our largest failure mode that we've had.  
13 And it typically is that they -- one of two things either happen,  
14 and there's always an argument between us and the manufacturer of  
15 which it really is: if the nuts were tightened enough or, over  
16 time, that the nuts are starting to loosen up and it's causing a  
17 leak that way. So it's leaking between the fitting and the pipe.

18 Q. Okay. Now, I'm sorry, I'm not familiar with it. Where  
19 does those fittings go?

20 A. They're usually on the service lines.

21 Q. On the service lines.

22 A. Um-hum.

23 Q. And are they near the meter or where on the service  
24 line?

25 A. They would be by the curb.

1 Q. By the curb?

2 A. Yeah, they typically are the curb valves.

3 Q. Okay. And the solution is to replace those?

4 A. Yeah, we replace them whenever we find them. Sometimes  
5 it's a temporary repair, just to tighten the nuts and then we'll  
6 go back in there and do a complete replacement of the valve.

7 Q. And what about the, I guess, sturdiness of the plastic  
8 pipe? Is that an issue?

9 A. We've had very few issues with the failure of the  
10 plastic pipe itself.

11 Q. Okay. Is there a specific way the ground has to be  
12 prepared before you lay the plastic pipe versus steel or cast  
13 iron?

14 A. I don't really get involved in the area of how they do  
15 restoration.

16 Q. We've got an area from DIMPs side of -- and I realize  
17 you are not -- from the DIMPs side of it, is the ground any  
18 concern?

19 A. Well, we do look in the ground. If there was some sort  
20 of an impingement that might have been the cause of the failure,  
21 we'll look at it from that standpoint.

22 Q. Well, I'm more looking from the geographic strata. Is  
23 the ground rocky, the ground is soil; is that a concern?

24 A. It is a concern, but we do not have the capability of  
25 capturing that presently in our distribution in our DIMP program

1 right now because we're not based upon a geographic information  
2 system base. We're kind of based on some land-based coordinates  
3 that we have and not real-world coordinates, so we can't, like,  
4 overlay all these nice maps that are out there, you know, knowing  
5 where the schools are and where the business districts are and how  
6 we lay that over onto where our actual mains and services are,  
7 which is a program that we're working on. In another couple of  
8 years we should have that.

9 Q. Okay, but does the, I guess your information sheet that  
10 comes from your technician, do they have any area there that they  
11 can identify the ground is rocky, the ground is unstable? I  
12 realize you need to get information --

13 A. Right.

14 Q. -- but how will you capture it if there is no  
15 information coming to you?

16 A. Well, there is -- what type of soil is captured in  
17 there: if it's loam, if it is rocky. So that type of soil is in  
18 there.

19 Q. It is captured?

20 A. Yes, it is in there.

21 Q. So it's already -- the data is available?

22 A. Um-hum.

23 Q. Okay. And is there a rating, a ranking for that in your  
24 calculation of ratings and risks?

25 A. It's not captured in risk, no.

1 Q. Okay.

2 A. Because we're still -- don't have the capabilities of  
3 doing that yet.

4 Q. That's fine.

5 A. Yeah.

6 Q. Now with the data you guys have looked at, are there any  
7 fittings failure information that you have noticed while  
8 developing DIMPs?

9 A. Yeah, there was -- we had some issues with some  
10 mechanical fitting failures. It tends to be in our Queens  
11 section, in certain areas there. So we've been concentrating on  
12 some of our main replacement programs to take care of the fitting  
13 failures that we've been seeing in there. And then we did a  
14 pretty good job in that area, so now we're starting to concentrate  
15 on some areas in Westchester where we've also seen some of the  
16 higher failure rates.

17 Q. And those are fittings into the service tees, or they  
18 are different?

19 A. They are different, because these are the couplings  
20 themselves. They're connecting two sections of pipe.

21 Q. What about the service tees? Is that -- have you had  
22 data that shows so many service defect areas --

23 A. Nothing that has come up as one of the higher risk  
24 items, no.

25 Q. Is that --

1           A.    The data is all available there, but it doesn't really  
2 come up as one of the higher risks.

3           Q.    Is it included in your calculations for likelihood of  
4 failure, consequence of failure, and priority of failures?

5           A.    Right.  In our consequence of failure we have four  
6 factors that we include in there.  And one of them is our loose  
7 fittings on high pressure mains, and the other one that we have in  
8 there is our cast iron breaks.  We kind of use those as some  
9 factors.  We also do population density and number of hazardous  
10 leaks that we have in a particular area.  Those are what our  
11 consequence factors are when we're developing our risk scores.

12          Q.    And how does a cast iron pipe rate in your DIMPs  
13 program, ranking-wise?

14          A.    It's the second-highest.  Our highest risk tends to be  
15 on the unprotected steel, for corrosion issues.

16          Q.    Okay.

17          A.    And cast iron is usually a second in there, but like the  
18 top 20 is all on bare steel corrosion.

19          Q.    And how the DIMPs program is used to decide which pipes  
20 get replaced for cast iron or steel?

21          A.    DIMP is a high level overview of the program.  It  
22 doesn't go down into the individual segments of a pipe.  We have a  
23 main replacement program that does that, which more tries to  
24 predict what is the next piece of pipe that's going to fail.  But  
25 that only is concentrating on mains, where DIMP is looking overall

1 main services, all threat categories, all materials.

2 Q. Okay. But does a replacement program utilize this DIMPs  
3 program in any shape or form?

4 A. It feeds into what -- there's no direct connection  
5 between the two, but we know what our threats are here, and that's  
6 the same things that were being addressed in our main replacement  
7 program. I mean, we are hoping to get something into the future  
8 that will actually link the two together, but we don't have  
9 anything at that point.

10 Q. So as we speak right now, the DIMPs program has no  
11 direct input to the replacement program?

12 A. Well, there's talking to the person who does it. You  
13 know, there's a coordination between it, but there's no direct  
14 link between the two programs, so it's a person-to-person  
15 connection.

16 UNIDENTIFIED SPEAKER: I just want to clarify something.  
17 When you say program, software program?

18 MR. LUDWIGSEN: Yeah.

19 UNIDENTIFIED SPEAKER: As opposed to programmatic,  
20 right? So we do have a -- the programs talk. I mean, people --  
21 there's physical, but the software doesn't talk.

22 BY MR. CHHATRE:

23 Q. Okay. That is fine, but the person who makes the  
24 decision which pipes get replaced, does that person talk to some  
25 person in DIMPs or is the requirement that they will consult the

1 input and information from DIMPs program in making that decision?  
2 I'm just looking for the formal procedure. That's all.

3 A. Right. I'm trying to remember if I -- we work in the  
4 same department, so we coordinate together when we're doing our  
5 department meetings, but there's nothing that's any written  
6 procedure that says we have to coordinate between us. But we sit  
7 in the same area and we talk together and when it --

8 Q. It's not like somebody has to check that thing out just  
9 to make sure it doesn't fall through the cracks.

10 A. Um-hum.

11 Q. Now how does a cast iron replacement program -- and if  
12 you remember, answer it; if not, you can get back to us later.  
13 The cast iron pipe on Park Avenue, how high that was on your list  
14 ranking?

15 A. I would have to get back to you on that.

16 Q. Okay, if you would, please.

17 MR. SINGH: You want the cast iron risk ranking on Park  
18 Avenue?

19 MR. CHHATRE: Yeah, Park Avenue.

20 MR. SINGH: Um-hum. I'll get that to you.

21 BY MR. CHHATRE:

22 Q. And which cast iron, if you remember, was ranked highest  
23 in the cast iron only, not overall replacement? Which area?

24 A. Now, I'm not sure on that one definitely.

25 Q. Okay, if you can get back to me on that one, too?

1 MR. SINGH: I'm sorry --

2 MR. LUDWIGSEN: Because now, are you looking at DIMP or  
3 their main replacement program, because it's a little bit  
4 different?

5 BY MR. CHHATRE:

6 Q. No, I'm looking at your ranking in DIMPs, your risk  
7 ranking.

8 A. Okay.

9 Q. Which is the highest risk ranking for the cast iron  
10 pipe, which area?

11 A. Well, from resolution-wise the lowest we go down to is  
12 we'll have what threat it is. So say it's corrosion or break,  
13 natural forces, which would be cast iron. Then we have -- that's  
14 the threat. Then we have what area it is in. So we break our  
15 system down by district, so, like, in Manhattan we have three  
16 different districts. And then it's been broken down by material  
17 and then we would have what our risk score is.

18 Q. Right.

19 A. So that would be the lowest level that I could give you,  
20 would be threat, material, and location, you know, district-wise  
21 location.

22 Q. Let me back up. With your DIMPs program do you rank  
23 different pipe segments for their relative risk or you don't?

24 A. Not individual pipe segments, no. It's just a high  
25 level overview of the program.

1 MR. SINGH: Just --

2 MR. CHHATRE: Go ahead.

3 MR. SINGH: Two pieces of this.

4 MR. LUDWIGSEN: Right.

5 MR. SINGH: We have a -- the DIMP program gives us the  
6 overall threats of our system. Our main replacement program takes  
7 that information in consideration, where we rank steel and cast  
8 iron -- bare steel and cast iron, small diameter piping, and we  
9 take a look at ranks, every segment across the enterprise, by  
10 region or we can do it holistically, by the entire system.

11 MR. CHHATRE: Okay.

12 MR. SINGH: So, and within that, we use the information  
13 from DIMP that says this segment -- cast iron threat -- breaks is  
14 one of our threats. Where do segments rank? Corrosion from bare  
15 steel is a threat. Or let's say we see within DIMP a coupling,  
16 2-inch coupling failures. So when we do our main replacement  
17 program, we incorporate that over time to adjust to those threats  
18 that we see.

19 MR. CHHATRE: So the DIMP's program does not give a  
20 relative ranking to different segments, or --

21 MR. LUDWIGSEN: No.

22 MR. SINGH: No, sir. Our main replacement program does  
23 that.

24 MR. LUDWIGSEN: Does that, right.

25 MR. STOLICKY: Just so we're clear -- this is Chris

1 Stolicky -- DIMP is an overall risk management tool for your  
2 system, your distribution system. So you have -- type of material  
3 is a factor because you have threats such as damage prevention,  
4 you have underground utilities, you have, you know, low lying  
5 flood-prone areas. You have all those factors in play. But when  
6 it comes to the pipe replacement program, as I understand it,  
7 you're focused on those specific segments of pipe that are the  
8 highest risk, meaning your small diameter cast iron, your certain  
9 vintages of bare steel that are more susceptible to leaking.  
10 Correct me if -- that's how I understand it.

11 MR. LUDWIGSEN: Yeah, that's perfectly correct.

12 BY MR. CHHATRE:

13 Q. No, that part I understand. My only question is that  
14 how far does DIMPs program go, then? I mean, if you just got --  
15 you said you're looking at overall picture. Do you guys -- where  
16 do you start? You don't rank any of these pipes? There is no  
17 relative ranking from the information you --

18 A. Not in DIMP. That's where we use the main replacement  
19 program, to do the relative risk ranking on individual segments at  
20 this time.

21 Q. Maybe you should explain then what the DIMP program  
22 looks like, because I thought you were giving relative ranking to  
23 different segments, would be the DIMPs program --

24 MR. NICHOLSON: Do we have a copy of the DIMP program?  
25 Can it be brought up or something on a screen?

1           MR. SINGH: We can get you a copy. I mean, it's a  
2 pretty large document.

3           UNIDENTIFIED SPEAKER: But we have submitted it, yes.

4           MR. SINGH: So Rick might have that.

5           MR. NICHOLSON: You can't look at the ranking up on the  
6 screen or anything?

7           MR. SINGH: Look at the rankings?

8           MR. NICHOLSON: Can you bring it up? Yeah, the ranking  
9 for any particular area, so we get an idea of how it's --

10          MR. SINGH: That's a voluminous file. I mean, you're  
11 talking hundreds of -- you know, thousands upon thousands of  
12 segments. And a segment --

13          MR. NICHOLSON: I thought in DIMP it wasn't at the  
14 segment level.

15          MR. LUDWIGSEN: Right.

16          MR. SINGH: No, it's not.

17          MR. NICHOLSON: So it's not segments. It's by material  
18 or area, right?

19          MR. LUDWIGSEN: It's by threat category, district and  
20 material.

21          BY MR. CHHATRE:

22          Q. So you lump the entire district in your DIMPs program  
23 and give a relative ranking for that district compared to other  
24 districts?

25          A. Right. Um-hum.

1 Q. So maybe explain how does a -- a risk ranking for a  
2 district is given, assigned? A district is fairly large, if I  
3 understand it correctly.

4 A. Right.

5 Q. So there may be areas which are more prone, areas which  
6 are less prone. How does those things dictate the ranking of a  
7 certain district?

8 A. The -- it lets us know that there is a particular issue  
9 in that area. Then we rely on the main replacement program to go  
10 ahead and identify which individual segments within that area are  
11 what needs to be replaced.

12 So one is just a high level, looking at it and saying,  
13 okay, this is where you need to look at. And then we have our  
14 main replacement program, which is also -- and main replacement  
15 program adds some more additional factors in there that our DIMP  
16 program cannot do.

17 Q. Like?

18 A. They do background failure zones. They do your --  
19 diameter is a factor in there. Gas ingress factors are included  
20 in there, so how much open surface that you have, proximity to  
21 sellers. Those are factors that are done inside of our main  
22 replacement program but not done within our DIMP program.

23 Q. So DIMP program does not rank those past failure  
24 histories when you rank your different districts?

25 A. They include the four factors that I discussed earlier.

1 Q. Okay.

2 A. So your frequency of failure for those different  
3 categories and then you have your four consequence factors. So it  
4 would be your loose fittings on high pressure mains, your  
5 population density, your number of hazardous leaks, and your  
6 number of cast iron breaks in a particular area. Those are  
7 consequence factors.

8 Q. And there are only four factors in your DIMPs program?

9 A. Yes, at this time, because that's basically all that we  
10 can do with the system that we have.

11 Q. Okay.

12 A. We need to move into a more graphical information system  
13 in order to change what we're having and add in additional factors  
14 in there.

15 Q. Okay.

16 MR. STOLICKY: Are there more factors that are  
17 considered by an SME beyond the software at this point in time?

18 MR. LUDWIGSEN: Well, we look at things that aren't  
19 necessarily captured in there, like the seismic threat and there's  
20 a few other threats for like the sewer cross bores and areas like  
21 that that we look at, and we use the SME experts to help us with  
22 that part of it.

23 MR. STOLICKY: Is that quantified somehow as a threat?

24 MR. LUDWIGSEN: Yes, we do assign a particular risk  
25 score to that based upon looking at, okay, these are the number of

1 -- the risk scores that we have in the other areas and how would  
2 you feel that these numbers compare with the scores, you know,  
3 threat of a seismic activity in New York City.

4 MR. STOLICKY: Okay.

5 BY MR. CHHATRE:

6 Q. So do you, as the person responsible for DIMPs, do you  
7 have any interaction with the pipe replacement program at all or  
8 you just do your thing and they do their --

9 A. No, we're in the same department.

10 Q. Okay.

11 A. The same, you know, group.

12 MR. SINGH: Manager.

13 MR. LUDWIGSEN: Same manager.

14 MR. CHHATRE: Same manager, okay.

15 MR. SINGH: They both work for the same manager, who  
16 ultimately works for me.

17 BY MR. CHHATRE:

18 Q. Okay. So how does the information that you don't have  
19 gets developed by the pipe replacement? Do you have -- do you get  
20 anything back to you? Any input then from the pipe replacement  
21 program that you can define your DIMPs program?

22 A. Really it's more the information should be fed that way,  
23 unless there's some particular issue that they're seeing. But we  
24 pretty much know that it's the bare steel is an issue. We know  
25 where it is, for the most part. They might have some slightly

1 different scores. You know, they have a better ranking system,  
2 because obviously I'm only high level. They have individual  
3 segment ranking.

4 Q. So what does your ranking involve? Is it just an  
5 overall district is the only ranking or you break it down to some  
6 kind of a --

7 A. Nope. District is as far down as we go on that, where  
8 we're relying on the main replacement program, which is, you know,  
9 part of our DIMP program. You know, it's there but it's not our  
10 relative risk ranking scores that we have.

11 Q. Okay.

12 A. I guess you could look at the main replacement program  
13 as a subset of our distribution integrity management program.

14 Q. Okay. That's all for me. Thanks.

15 MR. CHHATRE: Kelly?

16 BY MR. EMEABA:

17 Q. All right, you've asked pretty much all the questions  
18 because I wanted to find out how you implement your DIMP and  
19 you've actually elaborated on that.

20 You mentioned something about the Kerotest valves and so  
21 on and so forth. Apart from the valves having problems -- you  
22 found problem with the Kerotest valves, correct?

23 A. Um-hum.

24 Q. The service tees, do your people use it and do you have  
25 it in your system?

1 A. A particular type of service T, or --

2 Q. Yeah, do you also use any Kerotest? Do they have that,  
3 for the service tees?

4 A. No, we do not have any Kerotest service tees. I'm --

5 Q. In your system.

6 A. The only ones that I'm aware of that we've been -- I'm  
7 only looking at what failures that I've been seeing and I have  
8 only seen it in the Kerotest valves.

9 Q. Okay. What do Con Edison see or terms as being  
10 hazardous leak?

11 A. What's that?

12 Q. What do you term as hazardous leak?

13 A. Oh. There's a rather big definition and I'm not really  
14 a good expert on that because it takes into condition of proximity  
15 to buildings and if there's readings and manholes and things like  
16 that. I'm not, you know --

17 MR. SINGH: I can give --

18 MR. LUDWIGSEN: I don't know if you can do a little bit  
19 better on the --

20 MR. SINGH: I can give you a chart that shows, that  
21 explains, yeah.

22 MR. CHHATRE: We have ordered this chart.

23 MR. SINGH: Okay.

24 MR. EMEABA: Do you have it already?

25 MR. CHHATRE: I think it should be in the commentary,

1 but I have it here. I have it here right now.

2 MR. EMEABA: Okay.

3 MR. STOLICKY: Let me try to clarify that. Do you know  
4 if it's the definition under the USDOT annual filing requirement  
5 or does it mirror pipeline safety regulations, classification of  
6 leaks?

7 MR. SINGH: I think it's much more conservative than the  
8 Part 192 you're referring to. I believe it's more conservative  
9 than 192.

10 MR. STOLICKY: Okay.

11 MR. LUDWIGSEN: Yeah, that's the chart.

12 MR. STOLICKY: That, okay, so that's -- it's the  
13 state --

14 MR. SINGH: Right.

15 MR. STOLICKY: -- for those classes.

16 MR. SINGH: Right. So I believe it's a little bit more  
17 conservative, right?

18 BY MR. EMEABA:

19 Q. Yeah, because I know when we were talking about  
20 (indiscernible), you were talking about the classification of leak  
21 is there, because they are two different things. When you call --  
22 depending on what the company has seen, what you call a leak being  
23 hazardous and what you actually see it as, okay, you put it in  
24 this class and so on and so forth. So that's why I wanted to find  
25 out from you what is being practiced currently, not just what is

1 written in the paper, because you could have it there and it's not  
2 being followed. So I can look at that later on and then see if  
3 there's anything coming out there.

4 Now, what criteria do your mechanics and supervisors use  
5 to assess pipeline condition before reporting it? Because you  
6 mentioned -- you were asked a question by Ravi how you get the  
7 information on the threats, on the plastic pipeline and so on and  
8 so forth. And then you mentioned the fact that you get  
9 information from your mechanics and the supervisors and all that.  
10 So what criterias, what parameters do they actually look at, you  
11 know, to assess it?

12 A. Well, it's only on a repair. So if there is a leak and  
13 they go out and do a repair, that's where I am capturing the  
14 information. So they're looking at what the original material is.  
15 They're looking at what the size is. They're looking at the type  
16 of soil that it's in, the depth of cover, what is the leak cause,  
17 where the leak is located, and then they have sections putting in  
18 comments in there. There's a bunch of other fields that I'm  
19 missing. I can give you a complete listing of everything that is  
20 captured in the repair screen, but that's some of the basic  
21 information that's in there.

22 Q. Okay. You also mentioned in the first answers you gave  
23 here that you're in charge of the standards and reliability. And  
24 you also, you have oversight of the plastic pipeline installations  
25 and failure, correct?

1 A. Reporting of them. I'm not --

2 Q. Reporting of the failures?

3 A. Reporting of the failures, right. I'm not in charge of  
4 the standards and reliability group. I'm just a member of that  
5 group.

6 Q. Okay, you're a member?

7 A. Yeah.

8 Q. Okay, so as a member of the standards and reliability,  
9 do you also consider the aspect of the training of the individuals  
10 who actually do those installations?

11 A. No, I do not. And I am not currently in standards and  
12 reliability. That was where I was for the first 6 years. Then  
13 they transferred me over to field -- well, I'm sorry, no. Because  
14 I was -- standards and regulatory issues was my first department I  
15 was working for. Then I switched over to field engineering and  
16 system reliability. So I don't know if I got it mixed up in my  
17 head here on which one you said. Did you combine the two?

18 Q. You had both of them --

19 A. Okay.

20 Q. -- standards and liability, then oversight of  
21 installations and failure reports you mentioned.

22 A. I'm doing the same job. I'm just reporting to a  
23 different manager, because we felt that being part of the DIMP  
24 part, more -- should correspond with the people who are doing the  
25 main replacement program. It was under the system reliability

1 section.

2 Q. Okay. In the past 5 years, what can you tell us about  
3 how much -- since your implementation of the DIMP, what can you  
4 tell us as a result, changes have been made as a result of that?

5 A. One of the things that we've been trying to change is  
6 the quality of the information that we're getting out of DIMP.  
7 When we first ran the program there was a -- the mechanics had the  
8 option of putting in a cause code of "other." And that was, in  
9 the first year there was like 40 percent of the repairs were cause  
10 code other. So we were trying -- and which doesn't help you at  
11 all when you're trying to do your DIMP trending and your risk  
12 analysis.

13 So we've been doing some programs, training the  
14 supervisors, going to the managers meetings. And like when I'm  
15 reviewing the plastic failures, whenever I see that cause code  
16 other, I ask them to please give me something else. So we've been  
17 reducing our others this past year. We were down to 8 percent as  
18 a cause code of other on there.

19 We also added some new threat categories so that we  
20 could better determine what types of failures that we're having on  
21 there. We added water main breaks as one of the failure causes,  
22 water main impingement. Tree roots was also something, especially  
23 during Hurricane Sandy we had a lot of problems with the tree  
24 roots pulling up the services. So we were adding some threat  
25 categories to help us learn where some of our problems are. I

1 believe we also added the bored through sewer cause code.

2           Just trying to help us focus in on where some of our  
3 problems are. We added, this past year, instead of just saying  
4 that the material is plastic, we're asking them to put in what  
5 type of material; so that if it's Adelaide plastic, if it's a  
6 Drisco pipe. Or, you know, we tried to make it a little bit  
7 easier and we just did it based upon color, if it's a green, for  
8 -- you know, because we had the Adelaide 4A, which is green; the  
9 Adelaide A, which is the tan; so we did it with the black, the  
10 yellow, so -- so we're now capturing that, so hopefully in the  
11 future we'll be able to start seeing some individual trends in  
12 your plastic failures based upon materials.

13           Q.    Okay.

14           A.    Because we know what we have in the system but we don't  
15 know what the failure is -- you know, the material, when you did a  
16 repair, what that material was, other than just being plastic.

17           Q.    Okay. You just mentioned tree roots affecting your  
18 pipeline or pulling out your services. Does it affect your  
19 plastic pipeline equally as it affects your cast iron pipeline?  
20 What effect do the tree roots have, both on your plastic pipeline  
21 and your cast iron pipeline?

22           A.    We really have not seen that many instances of tree  
23 roots to develop any sort of a trend on that right now. The  
24 occurrences have been very few, especially because we've just  
25 added that as a threat cause code within the past 2 years. And

1 most of those were due to Sandy on services. And it didn't really  
2 matter, the material type; when the tree root was coming up, it  
3 pulled everything up.

4 MR. NICHOLSON: I think you're saying when the tree  
5 topples over, the roots are pulling the gas line out.

6 MR. LUDWIGSEN: The services up, yeah.

7 MR. EMEABA: Okay, I see what --

8 MR. NICHOLSON: I know where you're going --

9 MR. LUDWIGSEN: You also have the issue of the tree  
10 roots getting into a cast iron main, you know, I think is where  
11 you were also looking at possibly, so --

12 MR. NICHOLSON: Right.

13 MR. STOLICKY: Do you have any cast iron services?

14 MR. LUDWIGSEN: No.

15 MR. STOLICKY: Okay.

16 MR. SINGH: Probably a better answer is not that we know  
17 of.

18 MR. LUDWIGSEN: Yeah. There should not be any cast iron  
19 services.

20 MR. SINGH: Or wood ones.

21 BY MR. EMEABA:

22 Q. Now, since most of the, or all the failures are reported  
23 to you, can you tell us percentage of, if you have the numbers, in  
24 the past 5 years of leaks that came from partially new  
25 installations or from new installations done in the last 5 years?

1           A.    I have all the raw data that I can pull up.  Since we  
2 started with the system, I believe it was in -- well, it depends  
3 upon which area you're looking at.  If you're looking at plastic  
4 failures only, that was since 2009.  I have a database from that.  
5 If it was from GIS, then we have it from a lot longer time period.  
6 So if there was something in particular that you --

7           Q.    You can go from 2009.

8           MR. NICHOLSON:  Well, I just want to -- let's just --  
9 this is a good point for me to put in my two cents.  I would like  
10 to request that database, then, your plastic failures database,  
11 2009 forward.

12          MR. LUDWIGSEN:  Okay.

13          MR. SINGH:  Okay.

14          MR. NICHOLSON:  And just give it to us as -- don't PDF  
15 it.  Provide it -- is it Excel or Access or --

16          MR. LUDWIGSEN:  Okay.  Well, there's two ways -- we had  
17 it -- I took over in 2009 doing that.

18          MR. NICHOLSON:  Okay.

19          MR. LUDWIGSEN:  Before it was all a paper-based system,  
20 so there's just papers somewhere in the office.

21          MR. NICHOLSON:  I don't want those.

22          MR. LUDWIGSEN:  Right.  Initially we had the paper came  
23 -- let's see, I want to make sure I get this right.  I was taking  
24 the paper and putting it into a database when I first started in  
25 2009.  So I have that from roughly 2009 to 2011 is a, from the

1 paper into an Access database.

2 MR. NICHOLSON: Oh, okay.

3 MR. LUDWIGSEN: Then, I wanted a program enhancement, so  
4 what we did is we added into our GIS system that whenever the  
5 material failure was -- original material is plastic, it would  
6 kick in, it would open up a screen where they would have to fill  
7 out the plastic failure report in there. So it's now done  
8 electronically.

9 MR. SINGH: So Matt, just to clarify, you want all  
10 plastic pipe failure from 2009 to date?

11 MR. NICHOLSON: Yeah.

12 MR. SINGH: Just one point of note is that we don't just  
13 install plastic today as new. We also install steel, coated --  
14 you know, protected steel.

15 MR. NICHOLSON: Oh, I see. And that will show up --

16 MR. SINGH: Well, we have other -- I mean, so from a  
17 failure perspective, if there are failures on that, do you want  
18 that too or do you just want plastic?

19 MR. NICHOLSON: I was just looking for plastic.

20 MR. SINGH: Fair enough. I just want to make sure.

21 MR. LUDWIGSEN: Okay.

22 MR. SINGH: That's fine.

23 MR. NICHOLSON: At this point.

24 MR. LUDWIGSEN: What I did is I combined those two. One  
25 was -- the two Access databases basically into one Excel file

1 right now.

2 MR. NICHOLSON: Oh, okay.

3 MR. LUDWIGSEN: And there is some data that doesn't  
4 capture from one to the other, so those fields are blank. But I  
5 now have one file for that right now, so if that would be --

6 MR. NICHOLSON: Combines both.

7 MR. LUDWIGSEN: Yeah.

8 MR. NICHOLSON: Yeah, okay. Yeah, that's what I'm  
9 looking for.

10 MR. SINGH: So I'll get that before you leave.

11 MR. NICHOLSON: Yeah, great.

12 MR. SINGH: I mean, it's, if it's big enough, if I can  
13 mail it, if not, I'll give it to you on a flash drive or  
14 something.

15 MR. NICHOLSON: No, just -- yeah, just --

16 MR. STOLICKY: So when you provide that, can you not  
17 restrict rights so it can be sorted and manipulated?

18 MR. NICHOLSON: Well, that's the whole point of getting  
19 it raw.

20 MR. SINGH: Yeah.

21 MR. NICHOLSON: Don't do any kind of crazy password.

22 MR. STOLICKY: I work the rate cases.

23 MR. EMEABA: All right, that's my questions at this  
24 time.

25 BY MR. STOLICKY:

1 Q. Okay, so with the plastic failure reports, I think we  
2 just talked about this, but do you track fusion failures? Just --

3 A. Yes. Well, it's whatever, you know, the AGI report and  
4 then you have the quarterly reports. So there's joint failures,  
5 there's fitting failures, and there's pipe failures, are the three  
6 categories on there.

7 Q. And is there any kind of root cause analysis done with  
8 each failure?

9 A. Not with each failure. The ones that are sent to the  
10 lab, and --

11 Q. And what -- at what point do you decide to send it to a  
12 lab?

13 A. That is the mechanic out in the field and the  
14 supervisor's call to make out in the field.

15 Q. Is there a procedure outlining that or is it just  
16 discretion?

17 A. Well, it's in the GIS form that when they -- when it  
18 says that it's a plastic failure, that is one of the questions in  
19 there: Did you send this to the lab, yes or no? So there is a  
20 prompt in there for them if they were going to send it to the lab.

21 Q. But there's not a criteria defined?

22 A. I am not sure if it is in the specs somewhere.

23 Q. Okay.

24 A. I would have to check on that.

25 Q. Okay. As far as threats to your system, do you -- and

1 this kind of piggybacks on the commission order from back in  
2 February, after the Horseheads incident with municipal  
3 infrastructure. Do you factor in water and sewer construction or  
4 pipelines near your gas system?

5 A. In our main replacement program, we have --

6 Q. In DIMP.

7 A. In DIMP? No, because that order has come out after we  
8 did our program evaluation. And I've been kind of waiting to also  
9 see what the result of this investigation is to know really how we  
10 might want to change our program.

11 Q. So your evaluation was done in April but it was only  
12 looking at 2013?

13 A. Correct.

14 Q. Because the order came out in February?

15 A. Um-hum.

16 Q. Okay.

17 MR. SINGH: So, so maybe I can interject on that note,  
18 two things. I guess one is should I be commenting on the order in  
19 this process and, two, is damage prevention captures that. We  
20 have a robust program around contractor oversight and public  
21 improvement projects for large city projects. We have actually  
22 physical oversight of that and we manage and track damage  
23 prevention associated with that, if it's possible. So from a  
24 damage prevention standpoint, that threat I think we address that  
25 in a number of ways. And we do replacements also in that process,

1 in advance of sometimes, or during large city projects to address  
2 those kinds of issues. So I think it's addressed within our  
3 overall damage prevention program, which is also part of DIMP.

4 MR. LUDWIGSEN: DIMP.

5 MR. STOLICKY: Yeah, I know we are still in that  
6 process.

7 MR. SINGH: Yeah, I just want to be careful that we  
8 don't cross lines here, right, because there's answers flying back  
9 and forth and I don't want to cross that line without making sure  
10 the right answers go to you and then we'll share that with the  
11 NTSB at the same time.

12 MR. STOLICKY: Understood.

13 MR. CHHATRE: Including backwards on this accident.

14 MR. SINGH: No, no, that's whether -- okay, the order is  
15 the order. I mean, I just share it, you know. The accident,  
16 you're right, it's first, the date of the accident. The order's a  
17 little bit different. That's an accident that happened in upstate  
18 New York, yeah.

19 BY MR. STOLICKY:

20 Q. And this may go down that same pathway, but have you  
21 made any changes or updates to your threat based on preliminary  
22 findings from Harlem, whether it be for plastic or cast iron?

23 A. Preliminary findings from what?

24 Q. From the Harlem incident.

25 A. Oh, Harlem. I have not -- still waiting on what the

1 test results were, so I really don't know what the root cause of  
2 the Harlem incident is yet. I have some theories, but I don't  
3 know anything definite. So no, I have not been able to take any  
4 action.

5 MR. STOLICKY: Okay. That's all.

6 MR. CHHATRE: Frank?

7 MR. McCARTON: Yeah, thanks, Ravi.

8 BY MR. McCARTON:

9 Q. So I have one question. It's Frank McCarton. Do you  
10 have any records of any failures from -- for sidewall fusions?

11 A. We, everything that we have -- you're saying sidewall.  
12 Then you're talking a service tee being attached to it?

13 Q. Um-hum.

14 A. Yeah, there is a handful of them out there, maybe six, I  
15 believe, something like that, since the 2009 data that we have.

16 Q. Okay.

17 A. Which is a very small percentage of the leaks that we do  
18 have or the repairs on plastic failures.

19 Q. Okay. Thank you.

20 MR. CHHATRE: Okay, Len?

21 BY MR. SINGH:

22 Q. Two things, I just want to -- this is Lenny Singh from  
23 Con Ed. Frank talked about failure and you said there are about  
24 six failures on tees. What are the modes of failures? Can you  
25 clarify or do you have details on that? Because a failure can be,

1 like, a range, right?

2 A. I am trying to remember some of them. There was a --  
3 one or two of them, I believe, were cold fusion it was determined.  
4 Yeah, I'm not -- I can't really remember what some of the other  
5 ones were at this moment. I'm sorry.

6 MR. CHHATRE: If it is in the database, can you provide  
7 that to us?

8 MR. SINGH: Right.

9 MR. LUDWIGSEN: Yes.

10 MR. SINGH: So that will be in the database that you  
11 get.

12 MR. NICHOLSON: We'll see that, right. Yeah.

13 MR. LUDWIGSEN: That's what I was figuring.

14 BY MR. SINGH:

15 Q. The other question I have, Ravi had asked some things  
16 about soil and ground conditions. Are you familiar with the ZEI  
17 study that was done over the years that includes soil data?

18 A. Soil analysis, yes.

19 Q. Can you maybe talk a little bit of how that, how that's  
20 built into our main replacement program?

21 A. I'm somewhat familiar. I would not consider myself an  
22 expert on that. ZEI did a study. I think we got it in 2009 or  
23 2010 and they did include the soil condition throughout our  
24 service territory. They did several soil samples throughout the  
25 area and they were using that to come up with some information on

1 what pipes that you should replace, based upon -- for both cast  
2 iron and -- I can't remember, was it also the bare steel?

3 Q. I believe so.

4 A. I think it was also in steel, but I know -- so that is,  
5 there is a whole listing of information that we have there as part  
6 of the ZEI study that does show some soil conditions. And those  
7 are incorporated as part of that main replacement program. The  
8 soil condition factor is in there, on when you're doing your risk  
9 scores for your -- risk scores on your corrosion for your bare  
10 steel.

11 MR. SINGH: Um-hum. So that's a very voluminous study.  
12 There's actually a smaller report. If you want, I can share that  
13 with you.

14 MR. CHHATRE: Yeah, that would be good.

15 MR. SINGH: That's all I have.

16 MR. CHHATRE: I'm (indiscernible).

17 BY MR. CHHATRE:

18 Q. Let me ask you a few clarification questions here for  
19 me. Just for the record, when did you, Con Edison, start using  
20 plastic pipes? Do you have that information?

21 A. Yeah, we started early 1972. There is a really nice  
22 chart in our DIMP program. If you pull that up, there's a chart  
23 showing where we used different plastic, which types of materials,  
24 which SDRs, all in there. It's, I believe, in Appendix A in  
25 there, so --

1 Q. Okay. So you believe 1972. Is that data from '72 to, I  
2 think, what, 2000- -- you gave me date, or year '11 or '12? Where  
3 is that data? Is that data captured in your DIMP study or it's  
4 still not --

5 A. What, pipes that we put into the ground?

6 Q. Well, no, any failures between '72 until the most --

7 A. We don't have failures from -- I mean, the only failures  
8 that we have are -- in the database are from 2009 on. But, I  
9 mean, the material could have been installed in '72, but it didn't  
10 fail until 2009 and on.

11 Q. I guess if there are any failures between '72 to 2009,  
12 where are -- where is that data? And I'm not saying there are  
13 failures, but if there are, how will you capture that in your  
14 DIMPs program?

15 A. Well, DIMPs, we only look at 6 years' worth of data, so  
16 we're not going back that far on there.

17 Q. Okay.

18 A. Yeah, 6 years of repairs, so --

19 Q. Okay.

20 A. But it, still, as I say, it could be installed back in  
21 '72.

22 Q. Okay.

23 MR. SINGH: So I think you're referring to this chart?

24 MR. LUDWIGSEN: Yes.

25 MR. SINGH: I can send this to you.

1 MR. CHHATRE: Okay.

2 MR. SINGH: It shows, you know, the different  
3 manufactured pipes that we used over the different decades.

4 BY MR. CHHATRE:

5 Q. Now, I was looking at if there is failure data between  
6 '72 and 2009, and if you have not considered that, maybe you might  
7 be missing some worthwhile information in your risk ranking is my  
8 -- why I was asking that question, is to -- I mean, I understand  
9 the logic for your 6 years --

10 A. Right.

11 Q. -- because there are two surveys involved. But that  
12 doesn't really lower or water down the previous data, the value of  
13 it.

14 A. But we have not seen any issues in the past 6 years in  
15 terms of plastic failures. I mean, well, our percentage-wise is  
16 very low. Our highest risks are still on our cast iron and bare  
17 steel, so that's where we are concentrating on. Not to say that a  
18 risk doesn't exist in there, it's just very, relatively low.

19 Q. Okay. And before 2009, did the previous data exist  
20 someplace that you guys can actually look?

21 A. There's paper forms --

22 Q. Paper trail.

23 A. And I'm not sure -- I only picked it up in 2009 and I  
24 know we've been sending -- they were entering information into a  
25 database that gets sent to the PSE. I don't have all that

1 information previously.

2 Q. Okay. Now with the ZEI study and, of course, the  
3 technicians filling in the form with the soil condition, so you do  
4 have data on soil conditions, per se, but it's still not factored  
5 in right now in your risk calculations?

6 A. Because it's not on the -- our maps aren't on a  
7 geographic system that we can be able to import that into it.

8 Q. The data is available, but it's not --

9 A. Right.

10 Q. -- entered in right now.

11 A. Because the way that our maps are right now, if you put  
12 -- the way the system is, the mains will not line up with the  
13 actual street addresses into a GIS system. I think some of them  
14 are around the Atlantic Ocean, I believe, so --

15 Q. You mentioned earlier that the failure, the root cause  
16 analysis data is entered into your system if the failure had been  
17 analyzed.

18 A. No, it's if the mechanic can determine what that is,  
19 it's entered in right there. And if they're not sure, they can  
20 send it to the labs to do a further analysis on that.

21 Q. Now the mechanics, are they qualified to analyze and  
22 make judgment as to what caused a failure?

23 A. I would believe so, but I don't know definitely on all  
24 of the qualifications on that.

25 Q. So for your DIMPs program, not every failure is required

1 to be analyzed to find the root cause?

2 A. Analysis by the lab, no; analysis by the mechanic or the  
3 supervisor, yes.

4 Q. So you are depending on the information coming from the  
5 mechanic as well as the lab?

6 A. Um-hum.

7 Q. Is it internal lab or outside lab?

8 A. Internal lab.

9 Q. And what are the qualifications of people? Are they  
10 degreed engineers or are they experienced in analyzing plastic  
11 failures?

12 A. I do not know all their training, you know, the operator  
13 qualification on that. I'm not involved with that training, so I  
14 don't know all the details on that.

15 MR. SINGH: So maybe I can help.

16 MR. CHHATRE: Okay.

17 MR. SINGH: The answer is yes to that. There are  
18 both technicians in the lab that qualified in fusing and there's  
19 engineers that oversee some of it. Ultimately there's a PE --  
20 Ronnie Cartney (ph.) -- Joe Madia, you're going to talk to him  
21 later in the week. He ultimately signs off on all the reports.

22 BY MR. CHHATRE:

23 Q. So then going back, I'm still a little bit hung up with  
24 the technician making the decision. And you guys are basing your  
25 risk ranking based on the information coming to you.

1           A.    Um-hum.

2           Q.    You guys don't have a requirement that a person be  
3 qualified or an annual risk qualification to make sure the  
4 judgment given by the person is based on the proper training?  
5 What I heard so far in the morning, in the training, I didn't hear  
6 anything about a person being trained to analyze the failures. So  
7 I'm just trying --

8           MR. SINGH: The person are not trained to analyze.  
9 They're trained to report, right?

10          MR. CHHATRE: No, I thought that he said they report the  
11 cause of the failures.

12          MR. LUDWIGSEN: The failure.

13          MR. SINGH: What they found -- again, ultimately the  
14 technician in the lab, and now the lab report, ultimately says the  
15 mode of failure.

16          MR. CHHATRE: Right, correct. But not -- from what I  
17 understand is not every failure goes to the lab.

18          MR. LUDWIGSEN: No.

19          MR. SINGH: So if it's obvious it's a loose fitting,  
20 right, if it's obvious it's damage, right, that doesn't need to go  
21 to the lab for analysis.

22          MR. CHHATRE: Loose fitting is not failure, in my  
23 opinion.

24          MR. SINGH: No, it's a -- we consider that a failure.  
25 It's a leak.

1 MR. LUDWIGSEN: That is a failure. It's a leak.

2 MR. SINGH: It's a failure. It's a failure.

3 MR. CHHATRE: All right. Okay.

4 MR. SINGH: It's not meant to leak, right? If there's a  
5 damage, right? The question -- if it's a question of workmanship  
6 around a fuse or what have you, it'll go to the lab for some  
7 analysis to see if it's a cold fuse, was it a defective part or  
8 what have you, and then you'd --

9 MR. CHHATRE: Then it will go?

10 MR. SINGH: Right, correct.

11 MR. CHHATRE: And that's, that's all for me. Thank you  
12 so much.

13 MR. LUDWIGSEN: Okay.

14 BY MR. NICHOLSON:

15 Q. I've got follow-up. When we were talking about the  
16 plastic pipe age and some of it dating back to 1972, and I  
17 understand we've -- you've been on electronic since 2009, is age  
18 or installation date captured in this database we're requesting?

19 A. Installation date is captured in there, not to say that  
20 it's perfect, but it is in there.

21 Q. It's based generally on the material that you're looking  
22 at?

23 A. They tend to -- you know, they're assuming that it was  
24 installed when the service was installed.

25 Q. Oh, okay, I see.

1           A.    But there are some cases where they didn't really pay  
2 attention and you'll have dates from 1940 in a few of the cases,  
3 when we were reviewing the data more recently, but -- so there are  
4 a few errors in that, that got through, got -- didn't get captured  
5 in my review.

6           Q.    Okay.

7           A.    Because that was probably, you know, partial services  
8 and they just look at what was in 1948, but then you had this  
9 section --

10          Q.    Well, what's done in those cases to reconcile and get  
11 the actual date, then?

12          A.    It's a best guess on that, because you don't really  
13 have --

14          Q.    So you just leave it?

15          A.    -- you don't have any information to know exactly what  
16 year it was installed, especially if a repair had gone in. You  
17 know, there's really no way of capturing that into the system.

18          Q.    Okay.

19          A.    You know, going forward we will know when these things  
20 are actually put into the ground.

21          Q.    You mentioned that there was -- that there's a complete  
22 review and an annual evaluation of the DIMP program?

23          A.    Um-hum.

24          Q.    But I'm not sure I understood what the distinction  
25 between the two was. Can you elaborate on what complete and --

1 what are the differences between complete and annual?

2 A. The way that the framework is set up, that -- I'm trying  
3 to remember. There's -- you're still running the risk ranking of  
4 your things. You're still doing your evaluation of your trends  
5 over a 6-year trend, which we have -- I don't know, because I came  
6 after this, so -- because we changed our trend to a 3-year trend,  
7 but that occurred after this incident, so I don't have to -- you  
8 don't want me to discuss that?

9 Q. Nope.

10 A. But it doesn't require you to go through every single  
11 page and do all the updates of all the information on there. It's  
12 more just your higher level of your risks in there. You still  
13 have your subject matter experts do a review of the program  
14 results and come up with any additional factors that may be, any  
15 emerging factors. You still review all the PHMSA reports, any PSC  
16 reports, AGA reports, to make sure that you're capturing any other  
17 trends that are happening in the industry. It's just that you're  
18 not doing every little update of every page to make sure that, you  
19 know, you have everything there.

20 Q. So risk ranking is still evaluated?

21 A. Yes.

22 Q. Okay. And you mentioned that the framework was NGA and  
23 SGA. Is that similar to the GPTC --

24 A. No.

25 Q. -- guidelines? No? Different.

1           MR. STOLICKY: Do you incorporate GPTC guidelines and  
2 best practices?

3           MR. LUDWIGSEN: Can you give me an example? I mean,  
4 they're captured as part of our programs anyway, where we have  
5 public awareness where -- damage prevention. They're captured in  
6 that respect, so --

7           MR. STOLICKY: So you don't consider them when you  
8 develop --

9           MR. LUDWIGSEN: For subprograms, that's part of DIMP, so  
10 yes.

11          MR. STOLICKY: Okay.

12          BY MR. NICHOLSON:

13          Q. Okay, that helps. When the samples are sent out to the  
14 lab, and I understand it's your internal lab, how does that get  
15 back into your database? Or does it?

16          A. They send me a report. They'll e-mail me the report.  
17 And I have -- in my database now I have it so that I know when,  
18 which ones I'm still waiting for reports from.

19          Q. Okay. So when we get the database, we'll see which of  
20 these samples had been elected to be sent to the lab --

21          A. Um-hum, right.

22          Q. -- okay, for review? When you come across something --  
23 you mentioned some fusion failures you had seen. One you  
24 mentioned, a cold weld, I think?

25          A. Cold fusion.

1 Q. Cold fusion. So what's done in that case, I mean, just  
2 from a risk perspective? Cold fusion, first off, what are we  
3 talking about? A low temperature joint?

4 A. I don't have the report in front of me to know exactly,  
5 so I --

6 Q. Well, in general, what would that --

7 A. Generally, usually the temperature wasn't brought up to  
8 the correct -- your heating temperature wasn't brought up there,  
9 so they didn't get -- you didn't get proper melt, so you didn't  
10 get a good joint in there.

11 Q. Okay. Is that one that would've gone to the lab for  
12 analysis?

13 A. Yes, the ones that -- the reports that we have are --  
14 were lab analysis ones on those.

15 Q. Okay. So if you saw it, and you have seen that, what  
16 does that do from a risk perspective? What do you do with that  
17 information?

18 A. If there was a larger trend of those, then we would be  
19 doing more of an evaluation to see if that was a problem  
20 throughout our system or is it just an isolated case? So in these  
21 particular ones, it's only been a couple in a year. So, you know,  
22 we're talking six of them over the past -- well, I shouldn't say  
23 -- they're not all cold fusion, so we're just --

24 Q. Yeah.

25 A. So the instances of it has been very low, so no action

1 has been needed, we felt, at this point because there were still  
2 higher threats into our system. Now we're keeping an eye on it  
3 and seeing if, you know, there's an increasing trend in that.  
4 Then yes, we will be taking action on there.

5 Q. Okay. It's not cause to go back and look at the person  
6 that did the weld and start to evaluate other joints that person  
7 might have performed in the system or --

8 A. I am not aware of that being done.

9 Q. That's not something you would do?

10 A. I don't. I'm not the only person getting the lab  
11 reports, so I don't know if that -- you know, it's also going to  
12 the department, so maybe they were taking some action from that on  
13 their end. But I do not know of any.

14 Q. Okay. You mentioned the three districts that are DIMP.  
15 What are those?

16 A. Well, each division has different districts in there.  
17 Manhattan happens to have three. Queens is probably broken up  
18 into about six or eight different districts in there. Westchester  
19 is somewhat individual towns are the districts, but we have  
20 combined a few of them so that you are trying to get similar size  
21 miles of pipe in there so -- it was a little bit easier to do a  
22 comparison on your leaks per mile that way, so we did some  
23 grouping to come up with districts in Westchester.

24 Q. Okay.

25 A. And in the Bronx, there's probably about six different

1 districts in there. In the DIMP program there is a map in there  
2 that shows the different districts. And, you know, it's color  
3 coded in there for some different threats that we have, you know,  
4 corrosion on bare steel, and you'll see different color codes on  
5 there for the different districts, you know, red being the worst.

6 Q. So Manhattan has three districts?

7 A. Um-hum.

8 Q. What are they? Are they just 1, 2, 3, or are they --

9 A. The districts are 11, 12 and 13; 11, 12 and 13 is --

10 Q. Oh, okay.

11 A. Yeah.

12 Q. That's how we'll know those. And then I thought I heard  
13 you say then the risk was by the material, is broken down by  
14 material type as well.

15 A. Um-hum.

16 Q. So is there a risk score by threat for that material  
17 type?

18 A. Yeah, it would be threat, district, material type and  
19 then what your risk score is.

20 Q. So what are the threats on plastic pipe? I missed that.

21 A. They don't even show up on the top 100 of the list.

22 Q. Okay, what's evaluated?

23 A. Hmm?

24 Q. What are the threats? What are evaluated for plastic  
25 pipe? There's like nine for steel, aren't there usually? How

1 many are there for plastic?

2 A. I mean, your -- there's nine threats overall, I mean,  
3 but we do --

4 Q. Okay, so it's the same threats?

5 A. It's the same threats.

6 Q. Okay. And just throw them out there.

7 A. Because a tree root could be, you know, both on plastic  
8 or steel, which would be natural forces kind of a thing, so --

9 Q. Okay. What are the others? Natural forces --

10 A. So you have corrosion, natural forces, mechanical or  
11 weld failures, other outside forces, excavation damage. How many  
12 am I up to?

13 Q. One, two, three, four, five. So you'll still assess  
14 things like corrosion, regardless of the material type; it's just  
15 plastic goes --

16 A. Well, there shouldn't be any corrosion --

17 Q. -- to zero at that point.

18 A. Right.

19 Q. Okay.

20 A. Now occasionally you might see a corrosion failure with  
21 plastic, but that's because the service was steel but the fitting,  
22 you know, connecting -- so sometimes you get those little weird  
23 things.

24 Q. Yeah, yeah, mechanical coupling.

25 A. Right.

1 Q. Okay. And then under your consequences, I heard you say  
2 -- I wasn't totally clear. On your consequences, you had things  
3 like -- wasn't there mechanical or couplings in there?

4 A. It was loose fittings on high pressures, so it is our  
5 mechanical couplings. Anytime that, you know, a fitting wasn't  
6 tightened or it loosened up, then --

7 Q. That's a consequence, not a threat?

8 A. That is one of the consequence factors that we added  
9 into there. It is sort of both. It's -- well, it's a threat,  
10 but --

11 Q. Well, it's threat times -- or likelihood times  
12 consequence, right? Likelihood of a threat --

13 A. We're considering that as a consequence because we feel  
14 that we have certain areas that we know that are an issue so we  
15 wanted to make sure that our risk score was addressed in that, so  
16 we added a factor for that.

17 Q. So your consequence weights each of these four  
18 factors --

19 A. Yes.

20 Q. -- to get a combined consequence? Okay.

21 A. Correct.

22 Q. Okay, I think I understand now. Okay, so, and then  
23 consequence times likelihood gives you your overall risk score?

24 A. Risk score, um-hum.

25 Q. Okay.

1           A.    Yeah, with the weighting factors that are involved with  
2 that.

3           Q.    But which district of Manhattan are we talking about  
4 when we're talking about the failure in March?

5           A.    I'm not sure. I'd have to look at the map. I'm not  
6 sure what it is right now.

7           Q.    Okay. And so I'm trying to get a feel for that specific  
8 area what was the highest threat to plastic pipe or what's the  
9 highest risk rank for the plastic pipe in that area.

10          A.    From the standpoint of DIMP, it's very -- it's not on  
11 the top 100, so --

12          Q.    It doesn't even show up? That's good.

13          A.    Right, right.

14          Q.    So plastic's lumped in with all the other material  
15 types. It doesn't have its own subcategory --

16          A.    No, it's its own category, but, like, when we were  
17 looking at the top 100 list --

18          Q.    Oh, by district.

19          A.    By district and threat cause category, it doesn't even  
20 show up in the top 100.

21          Q.    So there -- I understand there was a cast iron  
22 replacement project on that street, at some point like 70 foot of  
23 cast iron was replaced to plastic. Was that something that came  
24 out of the DIMP program? Was that a risk that was identified on  
25 that street?

1           A.    I don't know why that one came out.

2           MR. SINGH:   That was an encroachment.

3           MR. LUDWIGSEN:   Encroachment.

4           MR. SINGH:   Meaning there was other work done there and  
5 jeopardized a main.  Part of our procedure is to replace cast iron  
6 mains that are encroached.

7           MR. NICHOLSON:   Okay.

8           MR. SINGH:   You know, either undermined or in the angle  
9 of repose.

10          MR. STOLICKY:   That is a regulation according --

11          MR. EMEABA:   In DIMP, yeah.

12          MR. NICHOLSON:   Okay.

13          MR. CHHATRE:   Lenny, can I -- what is encroachment?  
14 What will happen?

15          MR. SINGH:   Okay, so that means someone is digging in or  
16 around it, either under it or adjacent to it.  So if it's within  
17 an angle of repose, you know, you have a 90-degree angle -- a 90-  
18 degree triangle along the depth and width, and you see -- if it's  
19 within that triangle, it's an encroachment and it needs to be  
20 replaced; if it's undermined, definitely being replaced.  And we  
21 determine what points to go to based on the size of the trench,  
22 the nature of the work that's being performed in and around it.

23          MR. CHHATRE:   And can you -- what was happening at that  
24 Park Avenue location that --

25          MR. SINGH:   At the Park Avenue location I believe there

1 was a sewer and water service being put into 1642 that undermined  
2 and/or encroached upon the cast iron main.

3 MR. NICHOLSON: In what, 2009?

4 MR. SINGH: '11, 2011.

5 MR. NICHOLSON: 2011?

6 MR. SINGH: Um-hum.

7 MR. EMEABA: If I may throw it out to you, if it  
8 happened at 1642, okay, right, you made your replacement from the  
9 across 16th Street there, and which is southward, coming north.

10 MR. SINGH: Right.

11 MR. EMEABA: To, and then you add which is it that go  
12 past 1642 and ended just in front of 1644. So how come does it  
13 entail that length, since, if the encroachment were just in front  
14 of 1642, why didn't you just set up to probably the next building,  
15 which is 1640, and then end where you ended? How come did you  
16 have to go to --

17 MR. SINGH: There's a number of decisions. We can  
18 choose to replace the entire block.

19 MR. EMEABA: Yes.

20 MR. SINGH: We can do 5 feet, we can do 50 feet, we can  
21 do 100 feet. All right, we look at adjacent piping and we make  
22 some decisions that's economic. Sometimes it makes sense to do  
23 more because you're going to be digging there and the cost, you  
24 know, the major cost is digging. So we look at what other  
25 failures are along the line, what other components along the line,

1 and does it make sense to do that? It's not, you know, say, well,  
2 let's do 5 feet, let's do 10 feet. It's an engineering analysis  
3 of the pipe and we make a decision.

4 MR. EMEABA: Okay, so the, the engineering decision now  
5 tore this out instead of also going far down the north side?  
6 Okay. I have a --

7 MR. NICHOLSON: I wasn't --

8 MR. CHHATRE: Matt, do you want --

9 MR. NICHOLSON: I'm sorry. I just want to -- I got to  
10 get through these or I'll forget.

11 BY MR. NICHOLSON:

12 Q. But the -- I heard you mention something about  
13 impingement and water main breaks being included in the DIMP  
14 program. Can you elaborate on that? What was --

15 A. We had a couple of incidents in the Bronx where a water  
16 main break caused flooding into the cast iron main system, so we  
17 wanted to add that as one of our threat categories so that we know  
18 if -- you know, being able to track that into the future. Water  
19 main impingement we decided just to add on there because if, you  
20 know, a water main breaks and starts putting high pressure onto a  
21 pipe, you're going to get a hole in there.

22 Q. Does that happen? That sounds like a pretty far --

23 MR. SINGH: We've -- no, we had that actually once,  
24 many, many years ago. I believe it was on a transmission main  
25 where an impingement from a water main, water meter service that

1 actually created a hole in the transmission main.

2 MR. CHHATRE: And when was that?

3 MR. SINGH: Oh, probably mid-2000. Do you remember?  
4 Maybe before your time, before my time. I just know historically  
5 it's --

6 MR. NICHOLSON: In a steel transmission line, huh?

7 MR. SINGH: Steel, steel, mm-hmm.

8 MR. STOLICKY: Well, you get 40-plus pounds of water  
9 spraying sand --

10 MR. SINGH: Right. It's like a jet. It just sits there  
11 over time and puts a hole in it eventually and created a leak.

12 MR. CHHATRE: No, I'm trying to find out a time frame,  
13 because I think previous data was not included in the risk, but  
14 this one seems to be. So I'm trying to find out when was this  
15 incident?

16 MR. STOLICKY: There were, I believe, two incidents in  
17 Con Edison's territory, 2011 and 2012, where there were water main  
18 breaks.

19 MR. SINGH: Oh, the water main breaks. There was two  
20 major breaks --

21 MR. LUDWIGSEN: Main breaks.

22 MR. SINGH: -- right, in '12, two in -- was it '12? One  
23 in the Bronx and one in Manhattan --

24 MR. STOLICKY: '11 and '12 --

25 MR. SINGH: -- where we had large-scale flooding and

1 outages.

2 MR. STOLICKY: Tens of thousands of gallons of water  
3 from that.

4 MR. SINGH: Water in the system. But the water  
5 impingement, specifically --

6 MR. NICHOLSON: But that's your undermining.

7 MR. SINGH: No, that's just the water main broke,  
8 buckled the street and took everything with it. The water just  
9 rushed into the main.

10 MR. NICHOLSON: Okay.

11 MR. LUDWIGSEN: So now you have all these services that  
12 are flooded, so --

13 MR. NICHOLSON: That was pre -- so those things were  
14 pre-accident?

15 MR. SINGH: Yes.

16 MR. LUDWIGSEN: Um-hum.

17 BY MR. NICHOLSON:

18 Q. So that's a threat that would also be looked at for  
19 plastic then, right?

20 A. Yeah.

21 Q. Because they're all --

22 A. We just haven't had any occur since we've added these  
23 new cause codes.

24 MR. SINGH: It's much more -- your cast iron main is  
25 much more susceptible to a break than a -- I mean, a plastic will

1 probably hang, right, as opposed to a cast iron will just  
2 collapse.

3 BY MR. NICHOLSON:

4 Q. I see. What I'm failing to understand is your  
5 likelihood is based on repairs.

6 A. Right.

7 Q. So if it didn't show up in a repair, just because  
8 there's a water main running parallel to your --

9 A. Oh, right, if there's a repair.

10 Q. -- your line doesn't mean it's at risk for impeachment  
11 or undermining. So there has to have been a repair history.

12 A. Yeah, exactly.

13 MR. SINGH: Or just the fact that you have a low -- a  
14 small diameter cast iron main or an unprotected steel pipe, a  
15 small diameter and, you know, and where all the water mains are or  
16 water mains are in general, you know, you want to kind of -- we  
17 wanted to start to track and see that. And one of the things in  
18 the current rate case is a leak-prone pipe in flood zones, right,  
19 is one of the things we were looking at because, again, if there's  
20 a washout or what have you, you potentially could lose that pipe  
21 much easier. So one of the things we've considered over time is  
22 should we start to track water main breaks and historic water main  
23 breaks and is that -- do we see it as a significant issue or is it  
24 a one-off, right? Maybe 2012 was a bad year, you had two water  
25 main breaks, right? And if it becomes rampant, then we have to

1 address that in how we replace, how we prioritize water -- cast  
2 iron and bare steel pipe replacement, right? And maybe that  
3 becomes a priority as opposed to something else.

4 MR. CHHATRE: Tasos, would you have a record of those,  
5 what happened in those water main breaks?

6 MR. GEORGELIS: The two that they just discussed?

7 MR. CHHATRE: Right.

8 MR. GEORGELIS: So when we have failures, we do an  
9 analysis of the cause of failure.

10 MR. CHHATRE: I mean, I'll remind you, but in case I  
11 forget, just can you -- can we get a copy of that, those two  
12 reports?

13 MR. GEORGELIS: Can you give me the exact locations?

14 MR. SINGH: That was the one in the --

15 MR. GEORGELIS: I remember one was, like, on 150 --

16 MR. LUDWIGSEN: It was in Harlem.

17 MR. SINGH: That was the one in Harlem, right. Remember  
18 the one --

19 MR. GEORGELIS: Was it off St. Nicholas?

20 MR. SINGH: St. Nick, St. Nick --

21 MR. LUDWIGSEN: Tarlock can bring it with him.

22 MR. SINGH: -- and the other one Jerome Avenue.

23 UNIDENTIFIED SPEAKER: Yeah, Jerome Avenue --

24 MR. SINGH: It was Jerome Avenue? And then the subway.  
25 They were months apart.

1           MR. GEORGELIS: Okay. So you want the failure analysis  
2 for those two?

3           MR. CHHATRE: If we can, because Tarlock is coming in to  
4 talk to us.

5           MR. GEORGELIS: Yeah, Tarlock would have been the one,  
6 probably, who did the failure analysis. So we'll have him bring  
7 copies of his failure analysis for those two locations?

8           MR. CHHATRE: If you can give it to us before that, then  
9 we can have it -- we can look at it before --

10          MR. GEORGELIS: Okay. I've got to check the office,  
11 where they are.

12          MR. CHHATRE: -- so we can ask better questions for him.

13          MR. GEORGELIS: Now, I assume they've been completed, I  
14 don't know, because they're all in different phases.

15          MR. CHHATRE: With your format.

16          MR. GEORGELIS: Yeah.

17          MR. CHHATRE: I mean, we can, really incomplete  
18 formatting and just stamp "pre-review" or something like that,  
19 that'll work.

20          MR. GEORGELIS: Yeah.

21          MR. CHHATRE: I just need to find out what is happening  
22 there, that's all.

23          MR. STOLICKY: There was also one in Brooklyn during  
24 that time period, too. Could you add that one to the list? I can  
25 get you the rough date.

1           MR. GEORGELIS: So we have a lot of water main breaks.  
2 What happened in --

3           MR. STOLICKY: National Grid had to pump out over 40,000  
4 gallons of water. It was a, it was a big break. I can get you  
5 the date.

6           MR. GEORGELIS: Get me the date. So, from what I  
7 remember, the one with National Grid, there was a -- we had a leak  
8 on, I think it was a steel pipe. And then they had a facility  
9 close by and he claimed that water was going in, but there was a  
10 question as to whether it was ours or theirs that was causing,  
11 that caused the leak. So I wasn't sure where that ended up. I  
12 don't know if it's the same one or not.

13           MR. STOLICKY: I'll get you the date. So Matt's follow-  
14 up question kind of dovetailed into a follow-up question I was  
15 going to ask --

16           MR. EMEABA: No, Matt wasn't finished, right?

17           MR. NICHOLSON: I'll be -- I'm just about done.

18           MR. CHHATRE: Let him finish.

19           MR. NICHOLSON: I'm going to end with just looking at  
20 Lenny and making sure we've got our data request. So we're going  
21 to -- we're going to see the database, the plastic failures  
22 database, we asked for that. And then there was mention of the  
23 supply, I called it -- it's a repair screen that they -- you know,  
24 the repair form that the guys in the field are filling out.

25           MR. SINGH: The plastic pipe failure report form.

1           MR. NICHOLSON: The plastic pipe failure report, thank  
2 you, that. We want to see --

3           MR. SINGH: The form.

4           MR. NICHOLSON: We want to see the form, we want to  
5 understand all the drop down choices that are available for the --

6           MR. LUDWIGSEN: Okay. Oh, you want to see the  
7 dropdowns, too. Okay.

8           MR. SINGH: So maybe, can we print it out on GIS and --

9           MR. NICHOLSON: It could be a screenshot.

10          MR. SINGH: -- screenshots and put a PDF?

11          MR. LUDWIGSEN: I'll figure something out. I may have  
12 to work with our IR and --

13          MR. NICHOLSON: That's fine. Even if it's, you know,  
14 get us a shot of the form and then you can just tell us what the  
15 dropdowns would be.

16          MR. LUDWIGSEN: Okay, because that I know I already have  
17 the list of values on there for those as a separate thing, but  
18 that actually --

19          MR. CHHATRE: It would be nice to have one blank and one  
20 filled form, so we know what the people fill in. If they have it.

21          MR. LUDWIGSEN: Well, probably I can only show you a  
22 filled-in form because the form isn't active unless --

23          MR. SINGH: It's a job.

24          MR. LUDWIGSEN: -- it's a repair on a plastic, then the  
25 form becomes active. Otherwise, they don't even see it.

1 MR. CHHATRE: Oh, okay. All right.

2 MR. NICHOLSON: And that's it. I just wanted to be sure  
3 those were captured. So thank you.

4 MR. SINGH: I believe you have a copy of the DIMP  
5 already, right? We gave -- we submitted that to you?

6 MR. NICHOLSON: Well, you said you gave us a copy of the  
7 DIMP, and I didn't make this request because I'm assuming it's in  
8 there, these risk rank --

9 MR. LUDWIGSEN: Yeah, the --

10 MR. NICHOLSON: We'll see the table for the 2013, I  
11 guess it would've been?

12 MR. LUDWIGSEN: 2012 data, because this --

13 MR. NICHOLSON: Oh, yeah, it would've been based on '12.

14 MR. LUDWIGSEN: Right, um-hum.

15 MR. NICHOLSON: '13 --

16 MR. LUDWIGSEN: Year-end 2012.

17 MR. NICHOLSON: Right. So we've already got that. I  
18 won't request it. Good.

19 MR. CHHATRE: Okay. Kelly?

20 BY MR. EMEABA:

21 Q. Yeah, I was -- I wanted also to ask some additional  
22 questions. We've talked about 2009. Is 2009 the year your  
23 plastic pipelines started failing or is that the year Con Edison  
24 started collecting information on plastic failures?

25 A. 2009 is when I started collecting the failures on

1 plastic fittings and changed how we did things, making it into a  
2 database, instead of it being a paper-based system.

3 Q. Okay, so that is when you started making the change?

4 A. Right. Um-hum.

5 Q. So prior to that, have you been collecting such  
6 information?

7 A. There are paper forms throughout the office on there,  
8 yes.

9 Q. Okay. Do you know of the committee called the PPDC?

10 A. Um-hum, we submit to that.

11 Q. Plastic pipeline database.

12 A. We submit our reports monthly to them.

13 Q. You do?

14 A. Yes.

15 Q. Currently?

16 A. Yes.

17 Q. Okay.

18 A. And I know we've been doing it, well, since I've been  
19 doing it in 2009. I don't know how much before that it was  
20 happening, so --

21 Q. Okay, do you have a current member or someone who is  
22 invited to attend?

23 A. On PPDC?

24 Q. Yes.

25 A. There are very few members that are actually part of

1 that committee that review the plastic failures. There's only  
2 like five. And some of them are industry, some of them are  
3 manufacturers -- users and manufacturers, so --

4 Q. Yes. Among the leaks of your plastic pipeline leaks  
5 that were identified, you mentioned at least about six from, you  
6 know -- do you know how many of them that are maybe within one-  
7 quarter miles of this area of the incident?

8 A. I am not 100 percent sure, but I would say that there  
9 wasn't any within the radius of there.

10 MR. SINGH: I thought we provided that during the on-  
11 site to you. You might have that, with the maps. Remember I gave  
12 you all the maps and all the data on that? So you might have that  
13 already.

14 MR. EMEABA: No, we're talking about the leaks --

15 MR. SINGH: Right.

16 MR. EMEABA: -- that were from --

17 MR. SINGH: Yeah, you had asked for a leak history  
18 within a quarter mile.

19 MR. EMEABA: Yes.

20 MR. SINGH: Right, and a half a mile, I think it was.

21 BY MR. EMEABA:

22 Q. Based on what information you have in your system,  
23 that's what I'm more interested --

24 A. You're talking plastic failures or --

25 Q. Yes, plastic failures and other.

1           A.    But then you also said it was only of those six.  Of  
2 those six, I don't recall any of them being in that area.  I can  
3 look at it --

4           Q.    Now you mentioned the fact, early on you answered that  
5 you know about six.

6           A.    Six failures that were due to fusion-type failures for  
7 an operator error.

8           Q.    Correct.  That's what I'm asking, if any of them, how  
9 many of them are within that area?

10          A.    I would say zero, but I would have to confirm it.

11          Q.    Other than the one involving this incident?

12          A.    I do not know of a failure analysis yet of that  
13 incident, so I don't know what the root cause is yet so I cannot  
14 answer that.

15          Q.    All right, thank you.

16          A.    I haven't seen any lab reports.

17               MR. SINGH:  That was an unfair question.  For the  
18 record, that was an unfair question.  That's leading the witness,  
19 we call that, my friend.

20               MR. NICHOLSON:  No, that's his job.

21               MR. SINGH:  No, he's not -- he's just here as a moral  
22 support.

23               MR. EMEABA:  Thank you.

24               MR. CHHATRE:  Are you finished?

25               MR. EMEABA:  Yeah.

1 BY MR. STOLICKY:

2 Q. My two follow-up questions have half been answered.  
3 Back to the PPDC database, plastic failure database, have they  
4 developed any consistent protocols yet or is it still just  
5 voluntary reporting of failures?

6 A. It is still voluntary, but -- I don't know the actual  
7 number, but they're close to like 90 percent of the mains in the  
8 U.S. are being captured by them.

9 Q. But it's a voluntary reporting? It's --

10 A. Voluntary.

11 Q. Okay. Next question revolved around the water main  
12 breaks, the big ones that were topics discussed in the rate case  
13 last year, along with the storm harming. But back to your risk  
14 model. When you're looking at material susceptible to water  
15 impingement, are you factoring in pressure? I mean low pressure  
16 versus high pressure?

17 A. In DIMP, we do not have a factor for pressure at this  
18 point. But for your -- I'm trying to remember the MRP. I'm not  
19 sure on MRP, if they actually include pressure in there or not. I  
20 know there's diameter and a few other things, but I'm not sure  
21 about pressure.

22 Q. My question's more focused on DIMP, because I think MRP  
23 would factor that, but -- if you have any type of flooding, no  
24 matter where the water's coming from, you have a high pressure  
25 pipe, you're less likely to get water in the pipe.

1 A. Right, right. Um-hum.

2 Q. I was just wondering if pressure was factored into your  
3 DIMP model.

4 A. Not into the DIMP model, no.

5 Q. Okay, all right.

6 A. But I consider MRP part of DIMP also, so --

7 Q. Okay, thank you.

8 MR. CHHATRE: Frank?

9 MR. McCARTON: No further questions.

10 MR. CHHATRE: Len?

11 MR. SINGH: I'm good.

12 MR. CHHATRE: Anybody have any questions?

13 MR. NICHOLSON: Yeah.

14 MR. CHHATRE: Go ahead.

15 BY MR. NICHOLSON:

16 Q. Well, first off, someone needs to define what was this  
17 voluntary database? You're calling it PPTC or --

18 A. Plastic pipe database --

19 MR. EMEABA: Plastic piping database committee.

20 MR. LUDWIGSEN: Committee.

21 MR. SINGH: That's AGA.

22 MR. LUDWIGSEN: It's an AGA-run committee that they  
23 collect monthly all the plastic failures.

24 MR. NICHOLSON: Okay, say --

25 MR. LUDWIGSEN: And then they do analysis of it and

1 submit a report out saying, you know, we've been seeing this type  
2 of a trend in the industry and, you know, you should take a look  
3 at that.

4 BY MR. NICHOLSON:

5 Q. One more time, what was, the acronym is what?

6 A. PPDC.

7 Q. And say that again, for the record.

8 A. PPDC --

9 MR. CHHATRE: No, no, what does it stand for?

10 MR. NICHOLSON: Spell it out, sorry.

11 MR. LUDWIGSEN: I'm sorry. Plastic pipe data committee.

12 MR. NICHOLSON: Okay.

13 MR. EMEABA: Plastic piping database committee.

14 MR. LUDWIGSEN: Okay, sorry.

15 MR. NICHOLSON: Database committee, okay. It's for the  
16 transcription, sorry.

17 MR. STOLICKY: And are company names associated with the  
18 failures or are they left off?

19 MR. LUDWIGSEN: They are not associated. So there is no  
20 record back to the company. It's all anonymous.

21 BY MR. NICHOLSON:

22 Q. Okay, so we talked a lot about DIMP, but I heard you say  
23 you're also over the public awareness program.

24 A. Yes.

25 Q. Okay, so can you just describe the Con Edison's public

1 awareness program, how it was framed and outlined and what it  
2 covers?

3 A. The public awareness program was developed through the  
4 Northeast Gas Association as a cooperative. They kind of came up  
5 with their own framework on there. The company has adopted their  
6 framework. We've been using that since -- I think the public  
7 awareness rule came into effect around 2006, but I'm not exactly  
8 sure on that, but somewhere around there.

9 And we've been working through the Northeast Gas  
10 Association to do year, 4-year effectiveness reviews. We've been  
11 doing some radio and TV commercials through them the past couple  
12 of years. I'm the chair currently of the NGA public awareness  
13 committee. So we've been meeting regularly. They discuss any  
14 issues that we had with our public awareness program.

15 You know, we just went through our 4-year effectiveness  
16 review for 2014. We had to have it completed by June, I believe.  
17 June 20th, I believe, is the date on that, so --

18 Q. Okay.

19 A. You know, since then we've been making some changes to,  
20 you know, this also -- and from the Harlem incident, on the  
21 communications, we've been sending out some brochures and some  
22 additional languages. We've been adding in there that things can  
23 be reported anonymous. I guess these are changes after the  
24 incident, so I guess you don't really want to delve into that,  
25 but --

1 Q. Well, while you're on that topic, because I've heard  
2 that there were changes post-accident. So okay, why don't you go  
3 ahead and talk to those. You said there were, what, additional  
4 brochures or what are --

5 A. We have -- our gas safety brochure right now is  
6 currently only in English and Spanish. They developed it into  
7 other languages, Chinese and, like --

8 MR. SINGH: Korean?

9 MR. LUDWIGSEN: I can't remember what the other one was,  
10 but --

11 BY MR. NICHOLSON:

12 Q. That came out of this accident?

13 A. Yes. We felt like we needed some additional languages  
14 in there. That is our gas safety information. And they also took  
15 the -- we had a video on our website that was done for gas leaks  
16 on there. And that was just done in English, so we developed a  
17 Spanish version for that also. You know, that's been on our site  
18 for a couple of years now, the English version of it.

19 We are required to do two mailings per year for our  
20 affected public. So our baseline requirements are met by our  
21 customer newsletter, where we have an article in there about, you  
22 know, meeting all the requirements of the public awareness  
23 program. In addition, we've been doing scratch and sniff bill  
24 insert. Some years we've also been doing a more comprehensive  
25 natural gas safety brochure, which covers carbon monoxide and some

1 additional areas in there that aren't required as part of public  
2 awareness.

3 Q. That goes out with the billings?

4 A. Those are in the billings.

5 Q. Okay.

6 A. Then we've been doing, with the NGA, the radio and  
7 television ads. We have a kids program, where we've partnered  
8 with DC Comics to do some electric, gas and steam safety comic  
9 books that go out there.

10 Q. Okay.

11 A. I have a Scholastic publishing, cooperation with them on  
12 some modules for energy safety, you know, and gas is one of the  
13 ones in there. We send out letters to all of our master meter  
14 buildings, so people who aren't -- who don't typically get a bill  
15 insert, we ask them to, you know, post these brochures on their  
16 bulletin boards so the people also -- the residents in there will  
17 have an opportunity to see what -- you know, these brochures.

18 Q. Do you look at that, the effectiveness of those  
19 programs, different than you would --

20 A. We consider that as a supplemental, just trying to reach  
21 out to the different areas as many ways as we possibly can.

22 Q. Okay.

23 A. Yeah, we also have, you know, the radio and TV  
24 commercials that we feel like are capturing the people that we may  
25 not capture with the master meter buildings.

1 Q. The radio and TV ads, do they play throughout these --  
2 your service areas or are they --

3 A. Well, it's through the Northeast Gas Association.

4 Q. Okay.

5 A. So it's -- you know, we each contributed a set amount of  
6 money and they have a certain reach that they go through, but -- I  
7 don't have the actual numbers off the top of my head, but you  
8 know, we are covering the major radio stations in the area, some  
9 of the AM, some of the FM, and we're capturing most of the cable  
10 type shows.

11 Q. Okay.

12 A. You know, in prime time. We're not doing the 2 a.m.  
13 type morning slot, but --

14 Q. That was my next question, okay.

15 A. You know, part of the -- we do capture, you know, all  
16 the airing times of all that, so I do have that as -- you know, in  
17 my public awareness program.

18 I'm trying to think if I've missed something. Well, we  
19 have the website with, you know, the ad that we do -- or not the  
20 ad, the safety video on there. You know, we've been starting to  
21 investigate a little bit more in tweets and things like that and,  
22 you know, sending out some tweets saying, hey, about gas safety  
23 or, hey, take a look at this video.

24 Q. Okay. We had heard, or I had heard about an instance or  
25 a concern in this accident that the initial complaint of gas

1 smells had gone to Con Edison and not to 911. Was there specific  
2 guidance from Con Edison that gas leaks --

3 A. Our guidance is to call Con Edison first or 911.

4 Q. Or 911? That's post-accident?

5 A. Oh, let me see, I'm thinking, now -- yeah, right, we're  
6 adding 911. But we typically want them to call Con Edison first  
7 and then we have a whole system in there. Once the responder is  
8 on site, if they need additional resources from the fire  
9 department -- I don't know if they've already discussed code MRRE  
10 yet, or --

11 MR. SINGH: No. So there's an initiative with the city,  
12 right, looking at FDNY being part of a response to a gas leak.  
13 That's still in its infancy stages. There's nothing final on  
14 that. There's still discussion with the commission on that. Both  
15 the fire department and the city and Con Edison are working  
16 together to iron out procedures and call center protocols and what  
17 have you if we were to go that direction.

18 MR. NICHOLSON: Okay.

19 MR. SINGH: But we do have a sub-process called a code  
20 MRRE process.

21 MR. NICHOLSON: Called a what? I'm sorry.

22 MR. SINGH: Code MRRE process.

23 MR. NICHOLSON: Code MRRE, okay.

24 MR. LUDWIGSEN: Multi-unit --

25 MR. SINGH: Right.

1 MR. NICHOLSON: Oh, that's an acronym?

2 MR. SINGH: Right.

3 MR. LUDWIGSEN: Yeah.

4 MR. NICHOLSON: Okay.

5 MR. SINGH: So it's something that we developed over the  
6 years based on previous incidents where, based on certain  
7 triggers, we would notify the FD because they could probably get  
8 there much quicker than we can. They have some level of equipment  
9 and training where they can, you know, evacuate and make safe to  
10 get people out, not necessarily being, you know -- occasionally  
11 they do turn things off, whether it's a stove or what have you,  
12 maybe a service line on the inside. But that is something I think  
13 the city wants to work with us to enhance that.

14 MR. NICHOLSON: So code MRRE was in place prior to the  
15 accident?

16 MR. SINGH: Correct, correct.

17 MR. LUDWIGSEN: Yes.

18 MR. NICHOLSON: Okay, but --

19 MR. LUDWIGSEN: But it first requires a --

20 MR. NICHOLSON: -- what are the triggers, I guess?

21 MR. SINGH: There's a number of criterias. Off the top  
22 of my head --

23 MR. NICHOLSON: Well, this accident didn't trigger it.

24 MR. LUDWIGSEN: Because you didn't have -- first you  
25 have to have a technician go out on site, and then once he takes a

1 couple of measurements --

2 MR. NICHOLSON: Oh, okay.

3 MR. STOLICKY: Not always.

4 MR. SINGH: Not always.

5 MR. LUDWIGSEN: Not -- yeah, that's true.

6 MR. STOLICKY: It depends on the information on the call  
7 that comes in.

8 MR. SINGH: Correct.

9 MR. STOLICKY: And if it's a reliable --

10 MR. SINGH: Source.

11 MR. STOLICKY: -- reliable source, meaning a school  
12 superintendent or a public official or someone calls in a gas  
13 leak, that could be --

14 MR. SINGH: Right, so it's a reliable source first of  
15 all, right. So if we get multiple calls from the same block, if  
16 we get a report of an electric and a gas issue in the same block,  
17 right, those are some of the key triggers that we use to say,  
18 okay, you know what, we'd better get somebody there quicker. FD  
19 can get there faster, you know.

20 Damage, perhaps, you know, the contractor knocked off,  
21 you know, something off the main, damaged a main, we make those  
22 calls to, to the fire department. We have a direct line in our  
23 control center to say, hey, we need to dispatch a code MRRE and  
24 they'll send somebody out there. In the meantime, our responder  
25 is on their way, but chances are the FD will get there first.

1 MR. NICHOLSON: What is your response time, typically?

2 MR. SINGH: We do about, roughly, 90 percent in less  
3 than an hour, probably close to -- yeah, 95, almost --

4 MR. STOLICKY: They're running about 87 percent in 30  
5 minutes.

6 MR. SINGH: Right, in 30 minutes.

7 MR. NICHOLSON: Okay.

8 MR. SINGH: And roughly, minimal, maybe one or two a  
9 year will go over the hour. We pride ourselves not to go over the  
10 hour. But close, like I said, close to 95-plus percent less than  
11 an hour and, as Chris mentioned, high 80 percent in 30 minutes.

12 MR. NICHOLSON: Okay, but the public awareness material  
13 always directed the consumer to go through --

14 MR. LUDWIGSEN: To call Con Ed.

15 MR. NICHOLSON: -- Con Ed?

16 MR. LUDWIGSEN: Um-hum.

17 MR. NICHOLSON: Okay.

18 MR. SINGH: I think we provided that stuff to Rick  
19 Downs, right?

20 MR. LUDWIGSEN: Yes.

21 MR. NICHOLSON: Yeah, that's where I've -- I've heard  
22 some of it.

23 MR. STOLICKY: I do have a question about the 911  
24 initiative, and maybe you were already asked this. And some of  
25 the concerns that we've addressed in discussions is that if

1 someone calls 911, at what point in time is Con Edison notified of  
2 the gas leak?

3 MR. LUDWIGSEN: It's still ongoing at this point. I  
4 really don't have the details on that, on what's been agreed upon  
5 yet.

6 MR. STOLICKY: Okay.

7 MR. CHHATRE: Are you done, Matt?

8 MR. NICHOLSON: Yeah, go ahead. That's fine.

9 BY MR. EMEABA:

10 Q. On your days on your office, can you tell us a little  
11 bit about this customer piping?

12 A. Customer piping?

13 Q. Yeah, the --

14 A. You mean customer-owned piping?

15 Q. Customer-owned piping, yes.

16 A. That's --

17 MR. SINGH: I think you should defer that question to  
18 someone else. That's not for him.

19 MR. CHHATRE: Yeah, we have, we have a different session  
20 for that.

21 MR. SINGH: We have a standards guy, so --

22 MR. CHHATRE: We have a different session for that.  
23 Even public awareness, we have a different session for that, but  
24 because you are not listed --

25 MR. EMEABA: He's the one in charge of the public

1 awareness.

2 MR. NICHOLSON: Yeah, he's -- and you don't have anyone  
3 else listed. That's why I've tried to capture it here, actually.

4 MR. SINGH: Yeah, he can come back if you want, if you  
5 have somebody else, but I'm not --

6 MR. NICHOLSON: And that's worth doing.

7 MR. CHHATRE: Who do we have listed -- well, it's worth  
8 doing it. We'll do as many as we can accommodate.

9 MR. NICHOLSON: He doesn't have -- you know --

10 MR. CHHATRE: It's better, I guess, maybe --

11 MR. NICHOLSON: -- I didn't see another public  
12 awareness. That's why I'm --

13 MR. LUDWIGSEN: Yeah, I was kind of surprised.

14 MR. NICHOLSON: -- grab you.

15 MR. CHHATRE: Who do we have here? It's on Thursday, I  
16 believe.

17 MR. NICHOLSON: Why don't we go off record at this  
18 point?

19 MR. CHHATRE: Yes, we'll go off record.

20 (Off the record.)

21 (On the record.)

22 MR. CHHATRE: Any more follow-up of this --

23 BY MR. NICHOLSON:

24 Q. I would just say, I wanted to build off what Chris was  
25 just mentioning. He said, his question was about 911 and how they

1 notify Con Edison. That's a post-accident?

2 A. Yes.

3 MR. SINGH: Correct. That's an initiative that's still  
4 being discussed with the city.

5 MR. NICHOLSON: So was there a mechanism in place prior  
6 to the accident?

7 MR. SINGH: For us to call 911?

8 MR. NICHOLSON: Well, for FDNY to call you if they get a  
9 911 notification.

10 MR. SINGH: I couldn't tell you off the top of my head.  
11 There is some protocol --

12 MR. McCARTON: If, if I may speak, may I speak of that?

13 MR. NICHOLSON: Yeah, Frank, go ahead.

14 MR. McCARTON: I believe the way that it is set up is  
15 once they confirm the incident by the fire dispatcher or from the  
16 arriving units, they will make a notification to Con Edison.

17 MR. STOLICKY: That's the way we understand the process.

18 MR. SINGH: Yeah, the hotline --

19 MR. McCARTON: That's what I'm -- the hotline will ring  
20 down --

21 MR. SINGH: Right.

22 MR. McCARTON -- to CIG, which is the central control  
23 desk, and they request Con Edison either on a rush or we have an  
24 odor of gas or we have news reports of an odor of gas. You know,  
25 it could be a minor leak in a hole, it could be a major leak, you

1 know, in the street.

2 MR. NICHOLSON: Sure. So they want personnel there  
3 first, before they make --

4 MR. McCARTON: Correct, before they confirm the leak.

5 MR. LUDWIGSEN: Um-hum.

6 BY MR. NICHOLSON:

7 Q. You mentioned the effectiveness review, which is  
8 conducted. It's a 4-year -- so it looks back 4 years? Is that --

9 A. Yeah. Well, no, it's due every 4 years, so it's based  
10 upon a survey that you do of --

11 MR. SINGH: I'm sorry, are we back on the record?

12 MR. NICHOLSON: Yeah, well, I didn't state it. Thank  
13 you. We are back on the record.

14 BY MR. NICHOLSON:

15 Q. So the question is the effectiveness reviews.

16 A. Okay, that's due every 4 years and it's based upon a  
17 survey that we started in December of 2013, continuing into 2014.  
18 I think it was like 4- or 500 surveys that we did in our  
19 particular region, and I asked a series of questions on there  
20 about a public awareness program: Do you know how to detect a gas  
21 leak? Do you know what to do?

22 You know, there was also other surveys for your  
23 emergency officials, your public officials and your excavators.  
24 And they have, you know, a different number of surveys were done  
25 for each of those.

1 Q. You did those or NGA did that?

2 A. We had hired Structural -- no, I'm sorry, the Center for  
3 Research, which has now been called Great Blue. They've been  
4 doing our surveys for -- they did our baseline back in 2006. We  
5 did our first one in 2010, and we also used them for this 2014  
6 one. They also do surveys for us for the effectiveness of our  
7 radio and TV commercials.

8 Q. Okay. And this is a phone survey or mailing?

9 A. In the past it's been a phone survey and this year  
10 they've started with some new technology and also doing some  
11 e-mails. E-mails would be a web-type survey that you could go in  
12 and enter the information that way.

13 Q. Okay. So have we requested copies of those already?

14 MR. NICHOLSON: Do you know, Lenny?

15 MR. SINGH: John was the person that --

16 MR. LUDWIGSEN: Well, the survey would be after the --

17 MR. SINGH: Yeah, after the incident.

18 MR. LUDWIGSEN: -- incident. So that would not have  
19 been included in the package that I previously sent.

20 MR. SINGH: Do you want that? The effectiveness, latest  
21 effectiveness survey?

22 MR. NICHOLSON: I wanted -- I would ask for all three:  
23 '6, '10 and '14, is what I was going to ask for.

24 MR. CHHATRE: It's not that we are not interested in  
25 post-accident. We just want you to identify the item is post-

1 accident; otherwise, we assume it was pre-accident.

2 MR. SINGH: Well, remember the effectiveness is around  
3 the same time, right. It's based on -- it's probably a little bit  
4 more elevated, as opposed to the past, so --

5 MR. NICHOLSON: Well, that, that last one --

6 MR. LUDWIGSEN: Well, the surveys in our area were done  
7 before the incident.

8 MR. NICHOLSON: Right, you said December 2013.

9 MR. LUDWIGSEN: Right.

10 MR. SINGH: Well, the reports -- you're right. The  
11 reports came out, I'm sorry --

12 MR. LUDWIGSEN: Yeah. The reports came out, you know,  
13 in April, by the time they got all the different areas throughout  
14 the Northeast done and the reports issued.

15 MR. SINGH: Right. So the only thing we have to do on  
16 that is check with NGA on proprietary and what have you before we,  
17 you know, stamp anything and send it off to you, right.

18 MR. CHHATRE: That would be nice.

19 MR. NICHOLSON: Proprietary? What would be proprietary?

20 MR. SINGH: Well, it's industry data, right, based on  
21 different companies. I know we can't just share information. You  
22 know, it's a membership privilege to be able to have that  
23 information, so --

24 MR. LUDWIGSEN: And then have that go on public record.

25 MR. SINGH: And if it's going to go in a public docket,

1 I mean, my friend here, Ravi, reminds me all the time I can't just  
2 stamp everything confidential and proprietary.

3 MR. EMEABA: And it's not on the Internet in any form?

4 MR. SINGH: Not to my knowledge. We can -- well, that's  
5 what we'll check. We'll check with NGA.

6 MR. LUDWIGSEN: It's on my intranet site, but not on the  
7 Internet site, so --

8 MR. SINGH: We have it internally. We'll check with NGA  
9 on proprietary before we --

10 MR. NICHOLSON: That's fine. Do what you need to do.  
11 That's fair.

12 MR. SINGH: -- declassify that.

13 MR. NICHOLSON: Yeah, make that a request.

14 BY MR. NICHOLSON:

15 Q. And then, I don't know if it's been requested or not, I  
16 apologize, but do we -- have we gotten confirmation that mailings  
17 were sent to these tenants, 1644 and 46?

18 A. They receive a bill, so it was individual meters --

19 Q. Billing statements about the -- twice a year.

20 A. They receive a bill --

21 Q. Oh, that would go out in the --

22 A. So, right, they would receive the bill inserts, at least  
23 twice a year.

24 Q. Well, I would request that we get confirmation that  
25 they're in your mailing database and that they were sent this

1 materials.

2 MR. SINGH: 1644 and 46?

3 MR. NICHOLSON: Yeah, if I've got those addresses  
4 correct, yeah.

5 MR. LUDWIGSEN: Okay.

6 MR. STOLICKY: And 42.

7 MR. GEORGELIS: Can I ask a question real --

8 MR. CHHATRE: It may be in the billing, but we want to  
9 make sure that their addresses are in your database.

10 MR. NICHOLSON: They're correct and --

11 MR. SINGH: Yeah, I think their apartments -- their  
12 meter number is associated with them, so we should have --

13 MR. LUDWIGSEN: We should have the meter numbers where  
14 they have the bill, so they would've gotten it, but --

15 MR. GEORGELIS: If I recall, if I may ask a question, I  
16 recall that there were multiple meters in all those buildings,  
17 right? It wasn't one set of --

18 MR. LUDWIGSEN: Yes. Right.

19 MR. SINGH: So -- sorry, every meter should have a bill  
20 associated. You want to make sure those months where the inserts  
21 were there, they got a bill that month, right?

22 MR. NICHOLSON: Yeah. I want to know that they're  
23 captured in your database, those mailings, it's up-to-date, you've  
24 got the right address and the right names.

25 MR. STOLICKY: Does Con Ed bill monthly or bimonthly?

1           MR. SINGH: Monthly. So what I'll do, I'll get you the  
2 bills and the names associated with those bills for every  
3 apartment for the meter in that premises, the gas meter.

4           MR. NICHOLSON: Yeah. I mean, do you keep your own  
5 database for public awareness or is it just rolled into the --

6           MR. SINGH: The corporate, it's the corporate.

7           MR. LUDWIGSEN: For -- yeah, I mean, I don't have a  
8 database of all the individual -- like the addresses of where  
9 everything goes, that's just corporate there. Because we -- our  
10 public awareness program isn't just our gas customers; it's our  
11 gas and electric customers. So if they're electric only, they're  
12 still going to be receiving this bill insert because, you know,  
13 there's still gas out on the street; they really should know gas  
14 safety. So we send it to all 3.3 million electric and gas  
15 customers.

16           MR. NICHOLSON: One mailing with information on both  
17 electric and gas safety?

18           MR. LUDWIGSEN: Well, no, it's just the gas safety.  
19 Well, I mean, there is electric safety in those -- in the customer  
20 newsletters also.

21           MR. NICHOLSON: Okay, but mostly gas.

22           MR. SINGH: So we don't just send it to the gas  
23 customers.

24           MR. LUDWIGSEN: Right.

25           MR. NICHOLSON: I understand.

1           MR. SINGH: We send it to all our customers, whether  
2 they're gas or not. And I think over the years we've even  
3 included people outside of our territory, whether they're an  
4 electric customer and not a gas customer.

5           MR. LUDWIGSEN: Right. Like Staten Island is -- we only  
6 have electric there, but we still send them this bill, or still  
7 send them the customer newsletter.

8           BY MR. NICHOLSON:

9           Q. What were the effectiveness numbers most recently, do  
10 you know, as far as awareness?

11          A. That's, I mean, that's a hard one to answer because  
12 there's so many different questions and how you want to look at  
13 it. The effectiveness evaluation would be a much better way of  
14 looking at that.

15          Q. Okay. And then as far as awareness to emergency  
16 responders, how is that connected?

17          A. From the standpoint of the emergency responders,  
18 because, remember, it's done based upon the New York area -- you  
19 know, it's kind of a region, is the responses. So something can  
20 be skewed by somebody, say, you know -- Central Hudson I believe  
21 is in our area. So some of their, you know, emergency responders  
22 numbers are also included in there, so it could skew that on  
23 there.

24                 So there were some improvements that still could be done  
25 on the emergency officials on the recognition, but I feel like

1 here in New York City, we have a really good program in there. We  
2 do a lot of additional training involved in there. We go to --  
3 through the training in the fire departments and the police  
4 departments. We actually go in and do a module on energy safety.  
5 We do drills. We've developed a --

6 Q. Who does that? Is that through your training department  
7 or who does that training? Is it a third party?

8 A. That was through our gas emergency response center. It  
9 was Matt who did that --

10 MR. SINGH: Which, which one are we talking about here?

11 MR. LUDWIGSEN: Well, the one video I'm thinking of is  
12 the 1040 Code 1.

13 MR. SINGH: Oh yeah, that's a combination of, you know,  
14 something we worked out many years ago with the FDNY, our gas  
15 group, emergency response group, which is part of gas operations  
16 in conjunction with FDNY. And that's something the city uses as  
17 part of their training.

18 MR. NICHOLSON: Okay, so it's your emergency response  
19 operations people going out to visit local fire stations?

20 MR. LUDWIGSEN: Right. Um-hum.

21 MR. SINGH: Yes.

22 MR. LUDWIGSEN: Well, fire stations or going into the  
23 training facilities, also.

24 BY MR. NICHOLSON:

25 Q. Okay. And what do they -- is it just this is what you

1 do when you smell it or does it talk about your operations center,  
2 your control center, who to call, what kind of information they're  
3 going to need?

4 MR. SINGH: I think all of the above.

5 MR. NICHOLSON: Okay.

6 MR. SINGH: We do a myriad, depending on what they're  
7 looking for. We go to fire stations. We meet with the local  
8 chiefs. We go down to -- they come to our training facility.  
9 They get a feel for what we do. We work with the -- in  
10 Westchester we go to the fire academies, you know, meet with new  
11 recruits and we talk. I mean, there's different stages of  
12 training, or education mostly.

13 MR. NICHOLSON: How often is that done?

14 MR. SINGH: It's mostly on an as-needed basis when  
15 there's, like I said, new classes; they get part of it. The FD  
16 requests it, there's some new folks they want to come out and see  
17 or we go out. But we try to make it an active, you know --

18 MR. LUDWIGSEN: Right. I don't know the actual number,  
19 but if you look in one of the appendixes of the public awareness  
20 under emergency officials, there is a whole listing in there of  
21 all the visits that they have made. It is all captured in there.

22 BY MR. NICHOLSON:

23 Q. Okay, that was something I was going to ask. All right.  
24 That's in the PA plan?

25 A. Public awareness, yeah.

1 Q. Do we have that?

2 A. Yes, you do.

3 Q. I assume we have that. Okay, okay. I think I'll stop  
4 there on public awareness. If we want to pick it up again  
5 Thursday, we can.

6 MR. CHHATRE: Any questions?

7 MR. EMEABA: Not much. I reviewed these previous. As I  
8 asked earlier and I did not define what you call a hazardous leak.  
9 But my other question is did you people ever consider  
10 incorporating the GPTC guide also for gas leak classifications?

11 MR. LUDWIGSEN: That's not my area of expertise on that.

12 MR. SINGH: When our standards person comes --

13 MR. NICHOLSON: He's DIMP.

14 MR. EMEABA: Okay, thank you.

15 MR. LUDWIGSEN: You need the leak survey people.

16 MR. SINGH: Yes, they're the ones, or our standards --

17 MR. EMEABA: I'm okay. Thank you.

18 MR. LUDWIGSEN: But, I mean, what I consider hazardous  
19 leak is Type 1's, and I think that's mentioned on there. So  
20 that's what I include as when I'm doing my analysis, is Type 1's.

21 MR. EMEABA: Thank you.

22 BY MR. NICHOLSON:

23 Q. Well, wait just one second, though. Your analysis as  
24 far as risk?

25 A. Risk. One of the consequence factors is hazardous

1 leaks, so that would be the Type 1 risk.

2 Q. So you don't look at all leaks. You only look at --

3 A. No, that is an additional consequence, if we're seeing a  
4 higher than number -- higher than normal hazardous leaks in a  
5 particular area, that is going to get a higher risk ranking in  
6 there.

7 MR. STOLICKY: So you end up with multiple 2's and 2A's.  
8 Could that add up to equal a Type 1?

9 MR. LUDWIGSEN: Well, if you already have your frequency  
10 of failures in there, so you already know that you have --

11 MR. SINGH: Lots of leaks, right.

12 MR. LUDWIGSEN: -- leaks in this area. Now how many are  
13 hazardous will bump that area up.

14 BY MR. NICHOLSON:

15 Q. So it's a separate category almost?

16 A. Yes, yes.

17 Q. You look at all leaks.

18 A. All leaks, and then --

19 Q. Number of hazardous is a, a bigger score somewhere else.

20 A. Yeah. Um-hum.

21 Q. Okay. Okay, thanks.

22 MR. CHHATRE: Questions for you?

23 MR. EMEABA: No, sir.

24 BY MR. CHHATRE:

25 Q. A couple of questions on public awareness. What is your

1 matrix to see your public awareness program is improving, not  
2 improving? How do you evaluate yourself?

3 A. Well, annually we have our quality assurance department  
4 come in and do an audit of our public awareness program. We've  
5 had PSE come in so far and have evaluated it once. They didn't  
6 have any -- I can't remember if it was findings or  
7 recommendations. There were a couple of things that we needed to  
8 make some changes in, in our program.

9 And then we do have the effectiveness evaluation, too,  
10 that helps us, you know, what things that we should be changing in  
11 there. Plus, our meetings through the Northeast Gas Association  
12 and talking about what's been going on with the regulators in the  
13 other areas and what topics have been coming up. And we make  
14 changes based upon that.

15 Q. Well, I'm still missing the matrix. What is the  
16 thermometer that this year our public awareness program improved  
17 compared to last year?

18 A. That would be the -- we don't do it on an annual basis.  
19 It's every 4 years.

20 Q. Okay.

21 A. And that's as the code requires it to be done every 4  
22 years.

23 Q. And what is your matrix? How do you measure or what are  
24 your thermometers for saying our program has improved in the last  
25 4 years?

1           A.    That's part of that 4-year survey results in there. So  
2 it breaks it down between the different stakeholder audiences. So  
3 if you're looking at the affected public, you know, between 2010  
4 and 2014 has your numbers increased or decreased? And we have  
5 several different categories on there: Did they know how to  
6 recognize a leak? Did they know how to respond to it? Would they  
7 take action?

8                        So there's all different questions in there. In the  
9 survey, there's a summary in there that shows all these different  
10 numbers on a nice little chart on that, so --

11           Q.    Now any changes made in your public awareness program  
12 since the accident?

13           A.    Yes, there was a lot of the changes and we've touched on  
14 a number of them already, so it was the --

15           Q.    Calling 911.

16           A.    We've added that, calling 911; that it can be an  
17 anonymous call, because there has been some concerns that people  
18 don't feel like they can call because their landlords tell them  
19 not to call or they're illegal alien and they're -- that's been  
20 some of the issues that have come up. So we started to stress  
21 that. You know, I said we added some additional languages. They  
22 did a lot of radio and TV commercials after the fact also.

23           Q.    Okay.

24           A.    I probably did an additional one in a customer  
25 newsletter. I believe we've also added in there some of this

1 information.

2 Q. For the record, can you tell us how the public awareness  
3 group is structured in Con Edison?

4 A. Well, Lenny is the, Lenny Singh is the program  
5 administrator in there. And each of the four stakeholders has  
6 somebody who is in charge of it. So from --

7 Q. Who are the stakeholders?

8 A. So the stakeholders for affected public would be  
9 customer affairs, I believe. For excavators, it's your  
10 construction management group. For emergency officials, it is our  
11 public affairs group. And who am I missing? Who did I forget?

12 MR. SINGH: Media.

13 MR. LUDWIGSEN: Well, affected public, emergency --

14 MR. SINGH: Customer ops. You got customer ops?

15 MR. LUDWIGSEN: Yeah.

16 BY MR. CHHATRE:

17 Q. You can tell me later. If you don't remember, I don't  
18 want to guess. You can just get it back through -- a little  
19 later. That's fine.

20 A. You know, it's all in the public awareness program of  
21 who's responsible for what areas on there and what they have to  
22 send.

23 Q. And where do you fit in?

24 A. I am his right hand man on this.

25 MR. SINGH: He's my -- he's the person working for me.

1           MR. CHHATRE: So he works on public awareness for you  
2 and these four people, four stakeholders, their contact people  
3 report to you or --

4           MR. SINGH: No, different organizations.

5           MR. LUDWIGSEN: Different organizations, so let's see --

6           BY MR. CHHATRE:

7           Q. How do you coordinate with them?

8           A. Well, we have meetings on there, discussing what a  
9 public awareness program is. You know, sometimes it's a group  
10 meeting. Usually it's a more one-on-one type of a thing,  
11 saying that we --

12          Q. What is the structure for that? I guess my question is,  
13 is there a document or guideline that says, okay, every 3 months  
14 you shall meet these stakeholders or every month or --

15          A. The public awareness --

16          Q. On your documentation, would be --

17          A. Well, the -- everything is in that public awareness  
18 program document on who's responsible for what when. And I'm  
19 there to make sure that everything gets done on -- when it's  
20 supposed to be done and that it includes all the required messages  
21 and the required frequencies.

22          Q. You meet with them, don't you?

23          A. Yeah.

24          Q. And how often?

25          A. I meet with them when the -- you know, like, for public

1 officials it's only every 3 years that is required. So theirs are  
2 a little -- you don't have to meet with them as frequently, but  
3 for emergency officials, that's annually. So right now I'm  
4 talking with them because we're coming up with a new letter for  
5 this year. You know, whenever we're doing the excavator mailing,  
6 which is on an annual basis, you know, I've worked with the person  
7 that's there and come up with a new mailing and how we're going to  
8 handle it.

9 Q. And your brochure says, program says to call Con Edison  
10 first if you smell gas?

11 A. Um-hum.

12 Q. Are there instructions given not to call 911 when  
13 somebody calls your call center to report gas odor? Now is the  
14 call center told not to call 911? Are there explicit orders to  
15 tell them to call 911?

16 A. Our public, the public awareness program tells everybody  
17 to call Con Edison, at 1-800-75-CONED.

18 Q. Okay.

19 A. And then depending upon the situation, if there's a  
20 leak, you know, how it would be handled, if a code MRRE will be  
21 called or not.

22 Q. And can you elaborate the reason for that decision, the  
23 logic for that?

24 A. Of why we're only having Con Ed?

25 Q. Call you guys.

1           A.    I know it's been an issue in some of the smaller towns  
2 that really the police and fire department don't want to be  
3 involved in your -- in the calls for gas leaks. They feel it is a  
4 gas company responsibility. I've even heard of some companies,  
5 police departments charging the companies, gas utilities, for the  
6 calls.

7           Q.    Has the City of New York told you, Con Edison, that they  
8 wouldn't want to respond?

9           A.    No, not in New York City. I don't know all the towns in  
10 Westchester and how they've been handling it themselves.

11           MR. SINGH: So the issue is that the operator has a  
12 responsibility for addressing emergency calls, right, when it  
13 comes to gas leaks. So it's always been call the company, call  
14 the operator, call the local distribution company.

15           I think over the years we've made some enhancements when  
16 we get those calls. I mean, the city gets calls sometimes before  
17 us, because people naturally, you know, for whatever reason they  
18 call 911. And as Frank mentioned, it gets to us at some point in  
19 the transition that they've confirmed the gas leak, they'll report  
20 to us.

21           MR. CHHATRE: That's -- I understand that.

22           MR. SINGH: Right.

23           MR. CHHATRE: But my question wasn't that. My question  
24 was a very simple question, yes or no. Did the city contact Con  
25 Edison telling them that your public -- you should not be asking

1 your customers to contact 911? It was very simple, yes or no.  
2 Did the city tell you guys that we don't want to get involved;  
3 it's your gas, you are responsible?

4 MR. LUDWIGSEN: The city has not said that to us, no.

5 MR. SINGH: Not to our knowledge.

6 MR. CHHATRE: Okay. So it's your -- it's really your  
7 decision asking people to call Con Edison first. Not, had no  
8 bearing on city or police or fire department not wanting them.

9 MR. SINGH: It's our responsibility. It's always been  
10 our --

11 MR. LUDWIGSEN: Yeah.

12 BY MR. CHHATRE:

13 Q. And I understand. But I want to make sure that the city  
14 -- I mean, I think you mentioned some of those people, the city or  
15 police doesn't want to get involved and --

16 A. Well, I'm talking about the Northeast Gas Association,  
17 from that standpoint. And that's why in the industry-wide, it  
18 hasn't always been 911 first.

19 Q. And then a follow-up to that, I think, if I remember my  
20 information correctly that I read, the person who takes that call,  
21 gas odor call, and dispatches the person, the public awareness --  
22 at what time, and these are borderline communities that respond,  
23 but does the public awareness group tell the person taking the  
24 call not to call 911?

25 A. No, we never say not to call the 911. They have the

1 option always of calling 911.

2 Q. Do they know that?

3 MR. SINGH: So this -- so you will get a chance to  
4 interview the --

5 MR. CHHATRE: No, I understand.

6 MR. SINGH: -- but there's a script that they follow  
7 prescribing -- they can't just veer from the script.

8 MR. CHHATRE: Okay, okay, sure, okay.

9 MR. SINGH: But there's a script that says ask these  
10 questions and you make certain decisions based on the answers you  
11 get.

12 MR. CHHATRE: I understand.

13 MR. SINGH: And I'm not an expert on that, but certainly  
14 those folks --

15 MR. CHHATRE: But that did not come from public  
16 awareness is what I'm asking. That's all I'm asking. That script  
17 that you've developed for that person who takes the phone call,  
18 did that script come from you or did you have a chance to review  
19 the script?

20 MR. SINGH: So that's a -- I don't believe it's a direct  
21 -- it's a bunch of organizations. We have call center folks, our  
22 customer ops folks, gas operations, the legal folks, right,  
23 everybody gets together and reviews the script.

24 MR. CHHATRE: I understand. But is public awareness  
25 part of that? That's all I'm asking. You're answering in 10

1 different ways, but you are not answering my question. Is public  
2 awareness part of that --

3 MR. SINGH: Developing the script?

4 MR. CHHATRE: Yes.

5 MR. SINGH: No, John doesn't -- no.

6 MR. LUDWIGSEN: Yeah.

7 MR. CHHATRE: Okay. That's all, that's all.

8 MR. SINGH: We don't develop the script.

9 MR. STOLICKY: Ravi, there's two things I'd like to  
10 interject here with what you're asking. One, the commission,  
11 commission's position is to have the utility operator at a gas  
12 leak scene as fast as possible because they are the most qualified  
13 to handle the situation. Fire department are very competent and  
14 qualified people, but they may or may not have the right equipment  
15 and calibrated equipment necessary, the tools to handle the  
16 situation.

17 MR. CHHATRE: Can I stop you right there. This is based  
18 on what? That they may not have trained people or they may not  
19 have equipment is based on what? Did the fire department in New  
20 York City --

21 MR. STOLICKY: The most qualified person to handle a gas  
22 emergency is the gas company.

23 UNIDENTIFIED SPEAKER: I think you need to ask the fire  
24 department that question.

25 MR. CHHATRE: Okay.

1 UNIDENTIFIED SPEAKER: And I think you need to ask the  
2 fire department that question and you need to ask the --

3 MR. CHHATRE: No, I understand --

4 MR. STOLICKY: Well, this isn't targeted at FDNY. This  
5 is a generic across the states.

6 MR. CHHATRE: Okay.

7 MR. STOLICKY: The FDNY is definitely at a much higher  
8 level and qualified --

9 UNIDENTIFIED SPEAKER: Well, say that. But say that for  
10 the record, then.

11 MR. STOLICKY: This is generic across the states.  
12 Second, as far as 911 goes, the way I understand how things came  
13 about back in June is that the city came out and said, we want you  
14 to call 911. They didn't go to Con Edison. They basically went  
15 to the public and said, you call 911 if you smell gas.

16 MR. LUDWIGSEN: And that's just --

17 MR. STOLICKY: It's not your question of -- how did you  
18 ask it -- did Con Edison, what was it, tell people yes or no call  
19 911. The city came out and said, we want you to call 911.

20 MR. CHHATRE: I understand. But --

21 MR. STOLICKY: They told, they told Con Ed that.

22 MR. CHHATRE: What I'm asking is the commission wants  
23 the operator to be responsible and I understand that part.  
24 There's no dispute on that. But if the commission has taken a  
25 position that the public awareness program for all operators, not

1 just Con Edison, should ask the customers to call them first and  
2 not 911. Is that --

3 MR. STOLICKY: No.

4 MR. CHHATRE: -- the commission's position?

5 MR. STOLICKY: No.

6 MR. CHHATRE: Okay, that's all I want to know. Okay.

7 MR. SINGH: You've got to remember, outside of New York  
8 City, which is --

9 MR. CHHATRE: That's why I'm asking --

10 MR. SINGH: Yeah, it's a little bit different.

11 MR. CHHATRE: -- they deal with the entire state, not  
12 just Con Edison.

13 MR. SINGH: Right. You know, even in our territory,  
14 outside of the city you have volunteer fire departments that don't  
15 have that level of training and equipment that we've had with the  
16 FDNY over many, many years.

17 MR. CHHATRE: Volunteer fire departments are the most  
18 prevalent form of fire department --

19 MR. SINGH: In the country, yes, absolutely.

20 MR. LUDWIGSEN: And the city also asked them to call  
21 311, which is the general information number --

22 MR. NICHOLSON: Oh, I wanted to ask about that, too. I  
23 mean --

24 MR. LUDWIGSEN: We're like, no, no, no, because that's  
25 just going to delay everything in there, so --

1           MR. SINGH: So there's a team between the city and Con  
2 Edison that's working on both --

3           MR. NICHOLSON: Now, but prior to the accident it was  
4 all just disconnect and disjointed, or?

5           MR. SINGH: Well, no, no. Like I said, we've had the  
6 code MRRE process, right. Now and the city had a process, when  
7 they get -- receive a call through 911 how they handle it.

8           MR. NICHOLSON: That's 911. What about 311?

9           MR. CHHATRE: No, my question --

10          MR. SINGH: I guess the same thing.

11          MR. LUDWIGSEN: The same thing.

12          MR. NICHOLSON: Okay.

13          MR. SINGH: Same thing. They have a process, right?

14          BY MR. CHHATRE:

15          Q. I guess from a public awareness viewpoint, are you guys  
16 contacting the 311 call center saying if you get a call for gas,  
17 either you call us or have the person call Con Edison. Has that  
18 been done?

19          A. You would have to talk with the people in the emergency  
20 management on that part of it.

21          Q. No, but you are public awareness, right.

22          A. Right, But he handles that part of the public awareness  
23 program, the interactions with emergency officials.

24          MR. SINGH: Right.

25          MR. CHHATRE: Okay.

1           MR. LUDWIGSEN: I'm just kind of the coordinator  
2 overhead. He knows all the details in general. I know all the  
3 mailings and everything else that go out.

4           MR. NICHOLSON: Who's he?

5           MR. LUDWIGSEN: I guess it would be Kevin Fagan would be  
6 a good person or --

7           MR. CHHATRE: Yeah, okay.

8           MR. LUDWIGSEN: Ginardo, Gino --

9           MR. CHHATRE: All right. Okay, that's --

10          MR. SINGH: Yeah, Fagan --

11          MR. LUDWIGSEN: Fagan would be --

12          MR. CHHATRE: That's all for me, thanks.

13          MR. LUDWIGSEN: Okay.

14          MR. CHHATRE: If not -- thank you so much. Off the  
15 record.

16                 (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:           NATURAL GAS DISTRIBUTION PIPELINE  
LEAK AND MULTISTORY STRUCTURE  
EXPLOSION IN HARLEM, NEW YORK  
MARCH 12, 2014  
Interview of John Ludwigsen

DOCKET NUMBER:           DCA-14-MP-002

PLACE:                    New York, New York

DATE:                     August 4, 2014

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.

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Emily S. Howard  
Transcriber