

CITY COUNCIL
CITY OF NEW YORK

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TRANSCRIPT OF THE MINUTES

Of the

COMMITTEE ON CONSUMER AFFAIRS
JONINTLY WITH THE COMMITTEE ON
ECONOMIC DEVELOPMENT AND THE
COMMITTEE ON ENVIRONMENTAL
PROTECTION

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DONOVAN J. RICHARDS
RAFAEL L. ESPINAL, JR.
Chairpersons

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A P P E A R A N C E S (CONTINUED)

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2 CHAIRPERSON GARODNICK: Good morning and
3 welcome to a joint hearing on the Economic Impact of
4 New York's Failing Infrastructure. I want to welcome
5 members of the Economic Development Committee of the
6 City Council. Today is Wednesday, June 18, 2014. My
7 name is Dan Garodnick and I have the privilege of co-
8 chairing this committee along with Council Member
9 Donovan Richards who is the Chair of the
10 Environmental Protection Committee and Rafael
11 Espinal, who is the Chair of the Consumer Affairs
12 Committee.

13 This is the first in a series of hearings
14 that we will convene on assessing the economic impact
15 of New York's failing infrastructure. Today, we will
16 be looking at New York's water mains, sewers, natural
17 gas, and steam. I will refer to it as the state-of-
18 our pipes hearing. It is no secret that New York's
19 infrastructure is outdated. It seems hardly a week
20 goes by without a headline, which demonstrates the
21 vulnerability of our aging system. This has long
22 been a concern of mine.

23 In 2007, a steam pipe burst in my council
24 district near Grand Central Station burst killing one
25 person and injuring a number of other people. This

1 explosion reveals the dangerous reality about the
2 age, and about the replacement techniques for New
3 York's steam pipes. Following the explosion, then
4 Council Member Tish James and I chaired a council
5 task force on infrastructure. More recently, the
6 explosion in East Harlem exposed the vulnerability of
7 our gas lines. In February, the Center for an Urban
8 Future published a report *Caution Ahead: Overdue*
9 *Investment for New York's Aging Infrastructure*, which
10 presented some alarming facts both about the age of
11 our infrastructure and about the rate in which we are
12 updating it.

14 We've convened this hearing today not
15 just to dwell on the state of our infrastructure, but
16 to begin a conversation about what we can do to
17 improve it. We hope that both DEP and the utility
18 companies are here today will begin making
19 assessments about what infrastructure improvements
20 need to be accounted for in their budgets based on
21 the real needs as opposed to just a historical
22 precedent. For too long, we have skirted the
23 responsibility of fully investing in our
24 infrastructure, and I hope that this will be the
25 beginning of a conversation on how to change that.

1
2 We will hear from the Department of
3 Environmental Protection, that's DEP, about the state
4 of our water mains and sewer lines. While PlaNYC set
5 a goal of replacing 80 miles of water mains per year,
6 we're averaging only 27 miles per year. In the 15 of
7 the last 16 years, we've seen more than 400 water
8 main breaks annually. That is more than one per day.
9 We also lose 24% of the water in the system to
10 leakage, more than twice the national average. Our
11 sewer system is also in grave condition, with leakage
12 and overflows a common occurrence. And, of course,
13 the unfortunate reality that when we have a heavy
14 rain, much of our sewage gets dumped right into our
15 waterways.

16 We look forward to hearing what DEP's
17 plans are to update the infrastructure, and what we
18 can do to improve our system. And whether that's
19 through greening above ground or other below ground
20 initiatives. We will also hear from utility
21 companies about their plans to replace and repair
22 steam and gas pipes. Particularly, we expect that
23 the restrictions on heating oil 4 and 6 will increase
24 the demand for natural gas. We would like to hear
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2 from the utilities about what they will do to address
3 this, and to deal with the increased demand.

4 Finally, we want to explore some new
5 solutions such as better coordinating when street
6 work occurs. Considering whether there should be
7 incentives for property owners who are able to limit
8 storm water runoff. And exploring whether we can do
9 better planning for the overall repair of our aging
10 pipes no matter what type.

11 I want to note we've been joined by a
12 number of our colleagues, Council Member Karen
13 Koslowitz, Rory Lancman, Mark Weprin, Inez Barron,
14 Vincent Gentile, Ruben Wills, and Daneek Miller. And
15 now before we go to our first panel I'm going to turn
16 the microphone over to Council Member Donovan
17 Richards, who is the Chair of the Environmental
18 Protection Committee.

19 CO-CHAIRPERSON RICHARDS: Good morning.
20 I am Chairman Donovan Richards, Chair of the
21 Environmental Protection Committee. And today the
22 Environmental Protection Committee along with the
23 Economic Development Committee and the Consumer
24 Affairs Committee will hold a joint oversight hearing
25 on assessing the economic impact of New York's

1
2 failing infrastructure on gas, steam, and water or as
3 Council Member Garodnick put it, the state of our
4 pipes.

5 The modern conveniences of life we all
6 have come to depend upon at a cost to the environment
7 that we also depend on for life. Especially in a
8 city like New York, as one of the first cities
9 established in the nation, many of the conveniences
10 that we rely on are very old. Wooden water mains
11 carried water through the city in the 1820s, and old
12 cast iron pipes were installed by Con Edison in the
13 1800s.

14 Gas Infrastructure. More than 8.3
15 million people live in New York City, and most use
16 natural gas for cooking, while many use natural gas
17 for heating as well. But as an older city, much of
18 New York City's natural gas infrastructure is older
19 than our grandparents, and in just as good shape.
20 Con Edison has been installing natural gas lines
21 underground since the early 1800s. Both Con Edison
22 and National Grid have jointly installed more than
23 6,300 miles of gas pipelines under the streets of New
24 York City. The aging gas infrastructure routinely
25 leaks with nearly 10,000 leaks reported in their

1 combined aging infrastructure in 2012 alone. Gas
2 leaks can cause explosions. While every leak does
3 not lead to an explosion, which requires an ignition
4 source, there have been more than 22 significant
5 ignitions in the city including one full-fledged
6 explosion killing three people and injuring 22 others
7 in the last decade not counting the East Harlem
8 blast.

9
10 With nearly half of the mains installed
11 before 1940 and more than half made of cast iron or
12 unprotected steel vulnerable to corrosion and
13 cracking in the winter, the issue is not so much
14 there will be another significant explosion as to
15 when and where it will take place. Similarly, New
16 York City's water infrastructure maintained by DEP is
17 very old with only 50% being built before 1941. In
18 2011, DEP lost 24% of water in its distribution
19 system due to leaks. In most areas of the city,
20 sanitary and the industrial wastewater, rainwater,
21 and street runoff are collected in the same sewers,
22 and then conveyed together to the city's 14 sewage
23 treatment plants. The city maintains 6,785 miles of
24 water mains and 6,400 miles of sewer mains, 66% of
25 which were installed before 1940.

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2 While the City tries to maintain a 100-
3 year replacement cycle, DEP actually replaced only 27
4 miles of water mains a year, and only 50 miles of
5 sewer mains per year were replaced during 2007 and
6 2013. When precipitation causes the 14 sewage
7 treatment plants to exceed their capacity, untreated
8 sewage and industrial waste is discharged to New York
9 City's Rivers and streams. A bypass violation of the
10 Clean Water Act.

11 At today's hearing, we expect Con Edison
12 and National Grid will testify respecting their gas
13 main infrastructure plans to improve its efficiency.
14 We also expect DEP to testify about its water
15 distribution and sewer line maintenance. And how
16 these systems will improve their efficiency, advance
17 economic development, and control costs in New York
18 City. Now we'll turn it back over to Council Member
19 Garodnick. Thank you.

20 CHAIRPERSON GARODNICK: Thank you very
21 much, Mr. Chairman, and now we'll hear from the Chair
22 of the Consumer Affairs Committee, Council Member
23 Rafael Espinal.

24 CO-CHAIRPERSON ESPINAL: Thank you, Dan.
25 Good morning and welcome to today's Joint Oversight

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2 Hearing on Assessing the Economic Impact of New
3 York's Failing Infrastructure, which will focus on
4 the city's gas, water, and steam systems. I'm
5 Council Member Rafael Espinal, Chair of the Committee
6 of Consumer Affairs. I want to thank Council Member
7 Garodnick and Council Member Richards for holding
8 today's hearing with me on this very important topic.
9 I also want to acknowledge the members of the
10 Consumer Affairs Committee who are here today, which
11 Dan actually acknowledged earlier. Finally, I want
12 to thank everyone who will be providing testimony.

13 As we all are aware, sustainable gas,
14 water and steam infrastructure is critical for
15 maintaining safe and reliable sources of energy and
16 water for residents, business owners and visitors of
17 New York City. Both Con Edison and National Grid
18 have jointly installed more than 6,300 miles of gas
19 pipelines under the streets of the city. As with the
20 aging underground pipeline that transports the city's
21 gas, water and steam breakdown, the potential for gas
22 leaks, flooding, sewer overflows, and other service
23 disruptions is likely to increase.

24 For instance, New York City's aging gas
25 infrastructure routinely leaks with nearly 10,000

1 leaks reported in the infrastructure in 2012 alone.
2 Under the right conditions, gases can cause
3 explosions as witnessed in the recent tragic
4 explosion in East Harlem. Furthermore, there have
5 been more than 22 significant ignitions in the city
6 including one dozen full-fledged explosions killing
7 three people in the last decade. According to Con
8 Edison, replacing all of the unsafe gas mains now
9 would cost as much as \$10 billion.
10

11 We can all agree that improvements to the
12 city's infrastructure is paramount, but funding for
13 such improvements should not be placed on the backs
14 of consumers who presently pay a great deal for
15 services. In addition to gas supply, Con Ed operates
16 the largest district steam system in the world, which
17 consists of 105 miles of main line, and serves more
18 than three million customers. Steam is a very
19 important utility for our city especially for
20 consumers who are in the laundry and dry cleaning
21 services.

22 In closing, I'm looking forward to
23 hearing testimony from Con Ed, the administration as
24 well as other interested parties with regard to the
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2 City's infrastructure system. With that, I will now
3 turn the microphone back to Chair Garodnick.

4 CHAIRPERSON GARODNICK: Thanks very much,
5 Chair Espinal, and without any further ado, we are
6 going to go to the New York City Department of
7 Environmental Protection, and hear from the Deputy
8 Commissioner James Roberts as well as his team. We
9 thank you for being here, and Committee Members, you
10 should now have a copy of the testimony. And we
11 thank the members of the public who are here today
12 for their flexibility on the start of today's
13 hearing. You know, today is right in the midst of
14 our wrapping up the City budget. So there are a lot
15 of things moving around as well as a full Stated
16 Meeting of the City Council this morning, which was
17 added to accommodate a few home rules that we needed
18 to send up to Albany as they finish up their session.
19 So I thank you for your patience. With that, Mr.
20 Roberts, welcome.

21 DEPUTY COMMISSIONER ROBERTS: Chairman
22 Garodnick and Espinal and Richards, and the members
23 of the committee. My name is James Roberts. I'm the
24 Deputy Commissioner of the Bureau of Water and Sewer
25 Operations at New York City's DEP. I'm joined today

1
2 by James Garin, who is my Director of Engineering and
3 Budget within our organization, and Joseph Murin,
4 who's the Assistant Commissioner for the agency's
5 overall budget, and our other DEP staff. We thank
6 you for the opportunity to testify on the de Blasio
7 Administration's efforts to improving New York City's
8 underground infrastructure.

9 One of the most important challenges we
10 face in managing the nearly 15,000 miles of water and
11 sewer infrastructure that is very much the lifeblood
12 of the city. Like many older cities, our
13 infrastructure is aging, and I believe that's not a
14 secret to anybody. But what sets New York City apart
15 has been our standing commitment to making the
16 necessary investments to continue to improve and
17 rebuild that infrastructure. Keeping this commitment
18 has at times been difficult. We understood the
19 challenges of escalating water and sewer charges
20 during some difficult economic times. But we also
21 understood that investments in critical
22 infrastructure are essential.

23 This year with the support of Mayor de
24 Blasio, we were able to deliver the lowest water and
25 sewer increase in nine years while increasing our

1 spending on water and sewer projects in the city.
2
3 And through the support of the Mayor, and returning
4 part of the rental payment, we'll be spending an
5 additional \$100 million per year on a program
6 designed to accelerate replacement of some of the
7 older -- oldest assets we have in the ground. And
8 I'll say more about that program shortly.

9 In the past decade, we have invested
10 almost \$3.5 billion in our water and sewer
11 infrastructure, which is in addition to the \$4.7
12 billion that has been spent on City Tunnel No. 3
13 since the 1970s. This past fall, as many of you will
14 remember, we activated stage two in Lower Manhattan
15 of City Tunnel No. 3, marking for the first time in
16 my 30-year career, or almost 30-year career a place
17 where we are no longer singly dependent upon City
18 Tunnel No. 1 within Manhattan in particular. And
19 City Tunnel No. 1 was put into service over a century
20 ago in 1917.

21 During the past decade we've also
22 invested \$3 billion in our new Croton Water -- Croton
23 Drinking Water Filtration Plant, the first of its
24 kind in city history. \$1.6 billion on our state-of-
25 the-art Catskill-Delaware Ultraviolet Light

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2 Disinfection Facility ensuring the quality and public
3 health of the eight and a half million city
4 residents, and approximately nine million New Yorkers
5 who enjoy the best water in the nation.

6 We've invested \$5 billion, an
7 extraordinary amount, in our Newtown Creek Wastewater
8 Treatment Plant. Investments like these account for
9 harbor water quality being the best it has been in a
10 century. And while many of these investments are
11 mandated, thereby putting uncomfortable pressures on
12 our water rates, we were also able to make critical
13 investments in pieces of the system that are not as
14 obvious to everyday New Yorkers. Projects like the
15 new \$225 million Staten Island Siphon to ensure
16 drinking water supplied to the Borough of Staten
17 Island, and the rehabilitation of Gilboa Dam at the
18 farthest reach of the watershed are examples of our
19 commitments to keeping the system sound and reliable.
20 We've budgeted \$262 million for reconstruction of our
21 dams, and three watersheds and \$40 million for
22 pressurization of its 2-1/2 mile segment of the
23 Catskill Aqueduct, which will increase the volume
24 available to the city and re-establish DEP's ability

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2 to bypass Kensico Reservoir when necessary to assess
3 the highest quality water.

4 At the same time, our commitment to
5 improvement of our intercity has never waivered.
6 Since 2002, we've constructed or reconstructed over
7 500 miles of sewer and over 510 miles of water main.
8 We've constructed 61 of 127, what we call best
9 management practices treatments on Staten Island's
10 Bluebelt Program for Storm Water Management. They
11 will serve as part of the storm water management
12 system for one-third of Staten Island. For example
13 from Fiscal Years '02 through '13, DEP spent \$430
14 million on sewers, and \$210 million on water mains in
15 Southeast Queens alone. Going forward, DEP has \$582
16 million in the four-year plan for Queens, of which
17 \$283.8 million is budgeted for Southeast Queens
18 including almost \$195 million for sewers, and almost
19 \$90 million for water mains.

20 Also in Queens, work two shaft sites
21 connected with the Brooklyn-Queens section of stage 2
22 of City Tunnel No. 3, is budgeted for \$43 million.
23 We project \$143 million to evaluate, assess, and
24 restore ground water wells in Southeast Queens for
25 the purpose of providing additional water during the

1
2 round out bypass construction and during any drought
3 or other instances in which the city surface water
4 supplies are not adequate.

5 In Staten Island, the Executive Budget
6 projects a total \$492 million, of which \$321 million
7 is for much needed sewers and \$182 million for
8 Bluebelt programs. The Snug Harbor Bluebelt Project
9 is budgeted for nearly \$24 million. Repairs to the
10 Oakwood Beach Wastewater Treatment Plant and to the
11 Hannah Street Pumping Stations are projected to cost
12 nearly \$80 million. In the Bronx, the Executive
13 Budget projects \$533 million of capital spending from
14 Fiscal Years '15 through '18. Approximately \$143
15 million is budgeted for the Hunts Point Wastewater
16 Treatment Plant including \$50 million for new
17 centrifuges and \$91 million for new digesters to
18 reduce combined sewer overflows into Huntsley Creek
19 [sp?] and Long Island Sound DEP has budgeted \$72
20 million in FY15 for construction of a parallel sewer
21 that will help divert flow from the creek. And for
22 sewers we have \$84 million in water main, and \$93
23 million in the program.

24 In Manhattan the Executive Budget allows
25 for \$720 million between FY15 and '18. The largest

1
2 single project is the \$175 million Cogeneration
3 Project at the North River Wastewater Treatment
4 Plant. The Cogen Project will replace existing
5 equipment for recycling digested gas with a more
6 efficient system that will allow more of the plant's
7 energy needs to be generated by the plant itself.
8 Thereby reducing our energy costs and air emissions.
9 Another \$270 million for several projects at the
10 Wards Island Wastewater Treatment Plant.
11 Construction of final tanks, reconstruction of the
12 Boiler Complex, and insulation of new water main
13 centrifuges.

14 In addition to the funds budgeted for
15 City Tunnel No. 3, \$116 million will be funded for
16 the construction of water mains connecting the two --
17 two of the City Water Tunnel 3 shafts with a local
18 water distribution system. Again, sewer and water is
19 broken down into \$35 million and \$162 million during
20 the Fiscal '15 through '18 years for Manhattan and
21 Brooklyn.

22 The Executive Budget includes \$860
23 million for plan commitments in the 26th Ward
24 Wastewater Treatment Plant and the associated sewer
25 work to reduce CSOs into Fresh Creek, account for

1
2 \$282 million. An additional \$102 million is
3 projected in FYs '15 through '18 for Coney Island
4 sewers. Sewers overall in Brooklyn are budgeted for
5 \$259 million and water mains are at \$118 million.

6 Over the past six years, we've also
7 improved our Maintenance and Repair Program
8 significantly, driving our water main breaks to
9 record lows and decreasing sewer backups and flooding
10 issues across the city. There is admittedly much
11 work to be done, but I believe it's important to
12 highlight that. For example, all water main break
13 per 100 miles has been between 5 and 7 per hundred.
14 While accepted benchmarks across the nation are in
15 the 22 to 25 breaks per 100 mile range. We've
16 reduced our catch basin repair backlog to less than
17 500 in a total of almost 150,000 basins citywide.
18 And our critical hydrant repair numbers have been
19 reduced from what had been 17 days to three days on a
20 basis of nearly 110,000 hydrants.

21 So, the news is not all bad. In some
22 cases, it is very promising. At the direction of
23 Mayor de Blasio and Deputy Mayor Shorris an
24 underground infrastructure working group comprising
25 key city agencies and private utility partners was

1 established. And tasked with improving emergency
2 response, coordination of underground construction,
3 and accelerating the pace of improvements.
4

5 DEP is currently working on a pilot
6 program to partner with the private gas utilities,
7 Con Ed and National Grid to identify potential areas
8 of mutual need and concern. By sharing data on
9 maintenance history and planned replacements, we
10 believe we can seize upon the natural nexus between
11 the age of each system and the neighborhoods they lie
12 in, and accelerate the replacement of the old
13 infrastructure in our systems, most of which is cast
14 iron. Most of which the critical older
15 infrastructure is cast iron.

16 DEP is currently working with both
17 utilities to map areas of potential opportunity, and
18 we hope to begin actual construction on one or more
19 of the locations by the end of the summer. We
20 believe that that in addition to the synergy of
21 replacing the old infrastructure there will be an
22 opportunity for efficiencies with street opening and
23 repair as well. The Department of Design and
24 Construction already performs coordination on major
25 capital projects it executes for both DEP and the

1
2 Department of Transportation. But we intend to
3 create a focused population of locations to be
4 administered for the purpose of this accelerated
5 program of \$100 million per year of additional
6 spending.

7 Finally, we have asked DDC to look at all
8 our current projects for opportunities to include any
9 older or cast iron and facilities that may not have
10 been included in the original project with an eye
11 towards reducing the inventory of cast iron water
12 mains more rapidly than we had planned. That
13 completes my prepared statement. Thank you for the
14 opportunity to present testimony, and I look forward
15 to answering any questions you may have. And if I
16 could, before I take questions, just to sort of
17 clarify a comment that Chairman Richards made, the
18 CSO, the overflows are permitted overflows. So our
19 system is constructed in that way, and we are
20 cognizant that they are -- that they do overflow.
21 But they're permitted overflows and not violations.
22 I just want to make sure that we're clear on that
23 record.

24 CHAIRPERSON GARODNICK: Well, thank you
25 very much. I want to let you know that we've been

1
2 joined by Council Members Ulrich and Levin, and I'm
3 going to turn the microphone over to Chair Richards
4 in a moment, but let me just jump in with a few quick
5 questions of my own. Can you give us a sense of the
6 percentage of pipes within your system that are
7 currently in a state of good repair?

8 DEPUTY COMMISSIONER ROBERTS: So Council
9 Member, the definition of good repair is, and many
10 would choose to use age as the sole proxy for that.
11 And while there is obviously a correlation to it,
12 it's not necessarily the sole determinant. Roughly
13 speaking, if this is an answer to the question, we
14 have roughly speaking about -- two-thirds of our
15 distribution system is cast iron. And that would be
16 some age before 1970, which was about the time when
17 we transitioned to Ductile iron pipe.

18 CHAIRPERSON GARODNICK: And it is a
19 priority for you to replace cast iron pipes, is that
20 correct? When you have the opportunity, you take
21 that opportunity.

22 DEPUTY COMMISSIONER ROBERTS: That's a
23 fact, and what has been historically the agency's
24 approach to it, has been to decade by decade move
25 that population of cast iron water mains forward.

1
2 So, for example, up until frankly January of this
3 year, the cutoff date for cast iron water mains that
4 would have been included in the project, had there
5 been no other reason. If we didn't have an
6 indication that the main had been subject to failures
7 before, it would have been 1945. So a main that was
8 in the street that was a 1950s vintage wouldn't have
9 made the cutoff.

10 In the late fall last year myself and my
11 engineering staff really looked at it and said, you
12 know what, let's just make the jump from the 1945 to
13 the next decade and just bring it to the 1970. The
14 increase on our budget in terms of spending was not
15 significant enough to cause us not to do that. So
16 had already sort of started that ball rolling back in
17 the turn of this past year.

18 CHAIRPERSON GARODNICK: Can a pipe be
19 both cast iron, and in a state good repair?

20 DEPUTY COMMISSIONER ROBERTS: Absolutely

21 CHAIRPERSON GARODNICK: Okay.

22 DEPUTY COMMISSIONER ROBERTS: Yes.

23 CHAIRPERSON GARODNICK: So do you know
24 where all these pipes are in the system? Can you, if
25 I were to say, take Broadway and Murray and say --

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DEPUTY COMMISSIONER ROBERTS:

[interposing] Yes.

CHAIRPERSON GARODNICK: --what have you
go underground there, you would know?

DEPUTY COMMISSIONER ROBERTS: Yes.

CHAIRPERSON GARODNICK: So you have a
map, which shows exactly where two-thirds of the
system that is cast iron exists?

DEPUTY COMMISSIONER ROBERTS: That's
correct.

CHAIRPERSON GARODNICK: Okay.

DEPUTY COMMISSIONER ROBERTS: And I'll
just caveat that by saying that any mapping system is
subject to some plus or minus, some accuracy issues.
But overarching, we have an inventory, and a fairly
robust system of where our assets are.

CHAIRPERSON GARODNICK: You stated in
your testimony that relative to the national average,
that New York City's water main break is considerably
better than what is expected nationally on average.
You said that we have between five to seven relative
to 100 miles. Whereas the national benchmarks are
around 22 to 25 per 100 miles. How does that jive,
in your view, with the leak rate? The leak rate, as

1 we see it, shows that we lose about 24% of our water
2 from leaks, which is double the national average.
3 Help set us to a point of clarity here as to which we
4 should be most concerned about. It seems to me
5 anything which is double the national average is
6 going to be a real concern for us despite that good
7 stat that we had in your testimony.

9 DEPUTY COMMISSIONER ROBERTS: So, the
10 second point of clarification that I was holding for
11 you to ask me that question was the reported 24% leak
12 rate that's in the report that was done by the other
13 group. I believe what they're referring to there is
14 what we would term for unaccounted for water, right.
15 So that would include water that we don't bill for.
16 Our leak rate is somewhere -- You know, it's an
17 estimated rate based on -- and I can explain how we
18 get to that -- but it's estimated between 5 and 8%.
19 The balance of the number that's in question, whether
20 it's 24% or some number that's slightly lower than
21 that is, I think, more unaccounted for water. Grounds
22 keeping water, for example. Things that are not
23 directly accounted for when they look at the amount
24 of water coming into the city, the amount of water
25 that passes through the tunnels, and the amount of

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2 water that's billed out to each property, if that
3 makes sense.

4 CHAIRPERSON GARODNICK: I'm not sure that
5 it does. So grounds keeping water is considered lost
6 or unaccounted for water?

7 DEPUTY COMMISSIONER ROBERTS: If it's not
8 metered. So any water that isn't metered or that
9 goes, that we don't recoup money on is lumped into
10 that bucket.

11 CHAIRPERSON GARODNICK: Okay, last
12 question from me, and then I'm going to Council
13 Member Richards, is the construction and
14 reconstruction of the sewer and water mains. You had
15 cited in your testimony that you constructed or
16 reconstructed over 500 miles of sewer and 510 miles
17 of water mains since 2002. That comes out to an
18 average of around 41 or 42 miles per year. The
19 City's PlaNYC goal was if water mains do 80 miles per
20 year, DEP's goal I believe was around 68 miles per
21 year. It seems like there are a lot of very big
22 projects --

23 DEPUTY COMMISSIONER ROBERTS:
24 [interposing] Right.

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2 CHAIRPERSON GARODNICK: -- that DEP is
3 spending capital funds on, but should we be focusing
4 more on the nuts and bolts of the system, and dealing
5 with the fact that we're having on average more than
6 one water main break a day in New York City? What do
7 you say about the goals versus where we are on the
8 replacement?

9 DEPUTY COMMISSIONER ROBERTS: I think
10 again in generalities, I wouldn't argue about the
11 percentages on the margins. I think in general our
12 goals have always been one percent or the 100-year
13 cycle, as Council Member Richards mentioned. And for
14 a period of time in the early 2000s, before we
15 started to get hit with some of the bigger projects,
16 I think you characterized it well. We spent a lot of
17 money on very focused projects, and that did impact
18 sort of the replacement rate.

19 We also need to be a little bit more
20 attentive to capturing the replacement that gets done
21 outside of the DDC world. So we roll that into our
22 metrics now. DEP, independent of DDC, the larger
23 capital projects, does replace water mains on a
24 block-by-block basis as needed, and so on and so
25 forth. So I think from where we sit, we are very

1
2 much interested in putting as much new pipe in the
3 ground as we can. Such that the industry can support
4 it. So that the neighborhoods that we're working in
5 can support it, and we're also always involved with
6 trying to dovetail to work with DDC.

7 The coordination between the highway
8 work, and the other city work. And that was really
9 the reason for the creation of DDC back in '96 was to
10 try and coordinate that work better. So short
11 answer: We're more interested in doing more pipe
12 work day to day. I'd love to see the number be 200
13 miles a year. We're working towards that. We think
14 that the Mayor's commitment of this additional \$100
15 million a year, just for that focus older asset
16 program is a step in that direction.

17 CHAIRPERSON GARODNICK: Thank you very
18 much, and I'm going to hold for now and go to Chair
19 Richards, and I thank you.

20 CO-CHAIRPERSON RICHARDS: Thank you
21 again. Good to see you again. So, before I begin, I
22 just wanted to raise a question, I guess. You said
23 that you guys were not in the Clean Water Act
24 violation. Did you guys sign a consent with DEC to
25 recognize that overflows were an issue?

1
2 DEPUTY COMMISSIONER ROBERTS: Yes, but
3 there were consent orders related to our drinking
4 water and wastewater systems that have gone on for
5 long periods of time. There are currently
6 negotiations for different consent orders being
7 hammered out right now. My point is that CSO
8 overflows as we -- as you characterize them, and as
9 we understand them, are permitted. We have permitted
10 outflows. It's understood, and New York is not
11 unique in this position, the older infrastructure the
12 systems were built to be combined. They were built
13 to allow for that sewer relief when the storm flow
14 came about. So in a typical--

15 CO-CHAIRPERSON RICHARDS: [interposing]
16 So you weren't in violation with them?

17 DEPUTY COMMISSIONER ROBERTS: No.

18 CO-CHAIRPERSON RICHARDS: Even though you
19 signed a consent order with DEC?

20 DEPUTY COMMISSIONER ROBERTS: I think the
21 consent orders that we sign, and I'm not the lawyer.
22 I'm the engineer on the team, but the consent orders
23 are more designed to align ourselves with making both
24 sides happy, you know to--

1

2

CO-CHAIRPERSON RICHARDS: [interposing]

3

But you would sign a consent order if you were in

4

violation of something?

5

DEPUTY COMMISSIONER ROBERTS: That's not

6

necessarily the case. I don't believe, but again,

7

I'm not the lawyer. So I'll defer to the legal team

8

on that.

9

CO-CHAIRPERSON RICHARDS: Okay. All

10

right, I'll move from that. So I wanted to go into

11

the water mains, and the first question I wanted to

12

raise is how many water main leaks did we experience

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last year?

14

DEPUTY COMMISSIONER ROBERTS: To be

15

candid with you, Council Member, I don't have that

16

specific number with me. It's very attainable.

17

We'll get it to you. I can tell you that our leak

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rates have trended down over the last five years on

19

average. One of the things that we've been able to

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sort of cull out over that same period of time, as

21

we've been able to drill down on the data more, is

22

that roughly two-thirds of the leaks that we respond

23

to are on private service lines. So that was very

24

telling to us. Up until the point where we were able

25

to really use the data more effectively, it wasn't as

1
2 transparent that water service lines and private
3 sewer laterals, for example, are much more of an
4 impact that we had thought previously.

5 CO-CHAIRPERSON RICHARDS: So would you
6 have said we had -- Because it seemed like every time
7 we turned on the news this year, there was a water
8 main break. And would you say we had an increase this
9 year, or just more press around these issues?

10 DEPUTY COMMISSIONER ROBERTS:

11 [interposing] We -- we-- this past year--

12 CO-CHAIRPERSON RICHARDS: [interposing]

13 Because I know in Rockaway in particular you --

14 DEPUTY COMMISSIONER ROBERTS:

15 [interposing] Yeah, I know, this past year we did --
16 our numbers did rise.

17 CO-CHAIRPERSON RICHARDS: Do you know

18 what percentage of the rise?

19 DEPUTY COMMISSIONER ROBERTS: I want to

20 say the numbers were in the low 400s for the fiscal
21 year.

22 CO-CHAIRPERSON RICHARDS: But that was an

23 increase?

24 DEPUTY COMMISSIONER ROBERTS: That was

25 absolutely, and, in fact, I want to say it was on the

1
2 order of about 20%. Somewhere around that number,
3 and I think we had figured that to -- We had a
4 really, really bitter winter. One of the things that
5 I get asked often is, you know, is it just the cold?
6 And while we have never been able to make the direct
7 correlation, we believe that the impact of the sort
8 of freeze/thaw, if you'll recollect, we had some
9 spells during this past winter where we had very,
10 very frigid temperatures. And then two days later,
11 we would be 20, 25 degrees warmer, and then it would
12 drop down again.

13 That sort of off and on with the
14 temperature is not our friend with regard to some of
15 the older -- You know, the cast iron pipes in
16 particular. The bulk of the breaks that we do
17 experience are what we term circular breaks. So
18 breaks that happen when the pipe is either -- it's
19 either due to settlement or moving in the ground.
20 The cast iron pipe because of the nature of the metal
21 sort of severs itself. It just slides and cracks.
22 We're able to repair those reasonably quickly and
23 effectively. We have far fewer breaks that are
24 catastrophic, and make the news. I'd like to avoid
25 those where I can.

1
2 CO-CHAIRPERSON RICHARDS: So would you
3 say the cast iron pipe is the most efficient pipe to
4 use. And what are they doing in other cities? Have
5 you guys looked at what they're doing in other cities
6 who--?

7 DEPUTY COMMISSIONER ROBERTS:
8 [interposing] Absolutely, yeah.

9 CO-CHAIRPERSON RICHARDS: So obviously if
10 cast iron is not efficient enough during the winter,
11 we need to be looking at ways to come up with more
12 efficient materials?

13 DEPUTY COMMISSIONER ROBERTS: Yes. But
14 we haven't used cast iron pipe since the early '70s.
15 There were actually a couple iterations of cast iron
16 pipe in history. There was what we call unlined cast
17 iron. It was just the inside was the same as the
18 outside, if you will. It was just cast iron
19 material. Somewhere in the '40s or '50s they out
20 with what they term lined cast iron where they were
21 able to put cement lining in to make the flow
22 characteristics of the pipe a little bit better. It
23 was better for water quality. It helped with
24 corrosion. So cast iron, we don't use cast iron in
25 the sewers.

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CO-CHAIRPERSON RICHARDS: [interposing]

So what are you using now?

DEPUTY COMMISSIONER ROBERTS: We use
Ductile Iron.

CO-CHAIRPERSON RICHARDS: Duct--?

DEPUTY COMMISSIONER ROBERTS: Ductile,
D-U-C-T-I-L-E.

CO-CHAIRPERSON RICHARDS: Okay, and
that's more efficient than -- ?

DEPUTY COMMISSIONER ROBERTS: Far more
forgiving, and able to be subjected to higher
pressures, and that's for distribution work pretty
much the industry standard.

CO-CHAIRPERSON RICHARDS: So with the
cast iron, do you know on average how much cast iron
pipes still exist

DEPUTY COMMISSIONER ROBERTS:
[interposing] Yes.

CO-CHAIRPERSON RICHARDS: -- in the city?

DEPUTY COMMISSIONER ROBERTS: Yeah.

CO-CHAIRPERSON RICHARDS: And can you
give us a that, please?

1

2

DEPUTY COMMISSIONER ROBERTS:

3

[interposing] It's roughly two-thirds of our

4

inventory of 7,000 miles of pipes. [sic]

5

CO-CHAIRPERSON RICHARDS: And how many

6

are prone to leakage?

7

DEPUTY COMMISSIONER ROBERTS: Well,

8

again, I don't know that we can break it down. We

9

can tell you the areas where we've had specific mains

10

that have exhibited problems, right? And where we're

11

able to -- One leak or one break doesn't necessarily

12

mean that the entire block has to be replaced. We do

13

look at that. But where you have recurring breaks in

14

a certain geography -- And that's one of the things

15

we're focusing on more acutely now with the Mayor's

16

office is where can we-- To use the term "buy down

17

the risk" where can we identify the riskiest pipe

18

looking at all the attributes not only age, material,

19

history, etc. So it's not just one. It's clearly

20

the most -- I think it's the most significant. I

21

don't think it's the sole, you know, factor that you

22

look at.

23

CO-CHAIRPERSON RICHARDS: So where are

24

the locations that are the most problematic? And

25

then, the other thing is how soon are you guys

1
2 replacing that with the ductile iron, if that's the
3 case?

4 DEPUTY COMMISSIONER ROBERTS: Where are
5 they? They're everywhere. They're non-discriminate
6 in terms of where they've been installed because that
7 was immaterial.

8 CO-CHAIRPERSON RICHARDS: [interposing]
9 Can you tell us where?

10 DEPUTY COMMISSIONER ROBERTS: They're in
11 all five boroughs. I mean they're in every
12 neighborhood. They're in every borough. There's no
13 neighborhood that doesn't have them.

14 CO-CHAIRPERSON RICHARDS: So what's the
15 plan to move away from those particular pipes, and
16 use the more efficient pipes?

17 DEPUTY COMMISSIONER ROBERTS: Right, so
18 the plan has always been to, as Council Member
19 Garodnick pointed out, you know, our target and our
20 target was the NYC target. We would like to have hit
21 that 80 miles a year. With our normal capital
22 program, we would be targeting those areas where we
23 had needed to replace those types of mains. We're
24 not taking ductile iron water mains out of the
25 street, being the newer stuff. I think the

1
2 difference now is really the Mayor's commitment to
3 adding this additional funding that is going to be
4 used exclusively for the water and potentially sewer
5 repairs in areas where -- The best case scenario
6 where we can make a correlation with the private gas
7 utilities at the same time. That would be the win-
8 win-win.

9 CO-CHAIRPERSON RICHARDS: So with the
10 extra money that you just said the Mayor is plugging
11 in, how close will we get to replacing 80 miles a
12 year?

13 DEPUTY COMMISSIONER ROBERTS: I think
14 this year we should potentially get to or above that
15 number. I think 80 is a realistic target this year.
16 I'd like to do better, but if you're going to let me
17 just commit to 80, I'll be glad to that

18 CO-CHAIRPERSON RICHARDS: [interposing]
19 No, no, we want you to keep going.

20 DEPUTY COMMISSIONER ROBERTS:
21 [interposing] I understand, I understand.

22 CO-CHAIRPERSON RICHARDS: Right, but
23 you're saying that you can --

24 DEPUTY COMMISSIONER ROBERTS:
25 [interposing] I think 80 -- I think 80?

1
2 CO-CHAIRPERSON RICHARDS: -- you believe
3 you can surpass 80.

4 DEPUTY COMMISSIONER ROBERTS: I think 80
5 is a realistic target for this year.

6 CO-CHAIRPERSON RICHARDS: Okay. I will
7 come back to a second round. I just want to get --
8 ask a few more questions. So, in your testimony you
9 spoke of Southeast Queens, and obviously I represent
10 the Rockaways, Rosedale, Laurelton, and Springfield
11 Gardens, and you know those areas very well. And
12 Danek represents St. Albans, so I'm sure he'll
13 mention that. So in this year's projected budget you
14 said \$238 million is budgeted for Southeast Queens
15 out of the \$582 million four-year plan? And then in
16 the next paragraph of your testimony you speak of
17 \$143 million to evaluate, assess, and restore the
18 groundwater wells in Southeast Queens. So that's two
19 separate factors of money?

20 DEPUTY COMMISSIONER ROBERTS: Yes.

21 CO-CHAIRPERSON RICHARDS: Okay, got you
22 so that's \$426 million, and you say 'project.' You
23 said projected \$143 million. So can you elaborate on
24 what 'project' means? Does this mean it's going to
25 happen that this money is there, or ...?

1
2 DEPUTY COMMISSIONER ROBERTS: The money
3 is budgeted. I think the money is budgeted against
4 projected expenses. So, as you're aware, we're still
5 in the process of sort of pre-design on the pieces of
6 the groundwater system that we intend to
7 rehabilitate. So it's premature to try and nail down
8 a number. We project that spending to be on the
9 order of about \$143 million.

10 CO-CHAIRPERSON RICHARDS: So we believe
11 we're going to spend all of this money this year?

12 DEPUTY COMMISSIONER ROBERTS: We're going
13 to be spending -- Well, it won't be spent all this
14 year.

15 CO-CHAIRPERSON RICHARDS: [interposing]
16 Over the next--

17 DEPUTY COMMISSIONER ROBERTS:
18 [interposing] Yes, exactly.

19 CO-CHAIRPERSON RICHARDS: --four years?

20 DEPUTY COMMISSIONER ROBERTS: Right, and
21 we're going to spend what we need to spend, and
22 that's what we're budgeting because that's what we
23 project it will cost.

24 CO-CHAIRPERSON RICHARDS: Okay, how much
25 a year do you project or can you give us that?

1
2 DEPUTY COMMISSIONER ROBERTS: Do you have
3 the breakdown?

4 JAMES GARIN: It's about \$50 million a
5 year.

6 DEPUTY COMMISSIONER ROBERTS: They have
7 it broken down on about a \$50 million per year, and
8 that's going to come out to \$200 million, but that's
9 what happens when you talk to the budgeting guys.

10 CO-CHAIRPERSON RICHARDS: So, two --

11 DEPUTY COMMISSIONER ROBERTS:
12 [interposing] It's \$200 --

13 CO-CHAIRPERSON RICHARDS: So there's \$426
14 million budgeted, budgeted, but \$50 million a year
15 for the next four years.

16 DEPUTY COMMISSIONER ROBERTS: So, it's
17 the ground water. [sic]

18 ASSISTANT COMMISSIONER MURIN: Councilman
19 Donovan, yeah, we have for the sewers \$206 million
20 for Southeast Queens of which about \$50 million for
21 '15; \$90 million for '16; \$10 million for '17; and \$3
22 million for '18. So you can see it's rather
23 frontloaded, as you can see. [sic]

24 CO-CHAIRPERSON RICHARDS: Okay.

1
2 ASSISTANT COMMISSIONER MURIN: [I'd have
3 to -- I don't have the water main work broken down,
4 but we'll get back to you with that number as well.

5 CO-CHAIRPERSON RICHARDS: Okay, I
6 appreciate that. I'm going to defer to my colleagues
7 for the next questions. I just want to raise the
8 last few questions. So in your testimony again, you
9 spoke of the underground infrastructure working
10 group, which compromises city agencies and private
11 utility partners and all of that good stuff. Are
12 advocates, are you guys having conversations with
13 advocates or community boards or elected officials in
14 terms of this? Because they would know where the
15 majority of this flooding is happening as well. So
16 are they engaged in the conversation. And if not,
17 how do you guys plan to engage them in the
18 conversation?

19 DEPUTY COMMISSIONER ROBERTS: So the
20 short answer is that at this point in time we have
21 not engaged community input on those. I think this
22 is a program that we're just trying to get off the
23 ground. We're just trying to work through the
24 details about how to coordinate. Something that's
25 not, as you're aware, traditionally done, and the

1 focus is really on the water supply infrastructure.

2 Not as much the collection side, the sewer

3 infrastructure except to say that where there is an

4 issue that we think needs to be addressed that can be

5 expedited with regard to sewer repair. We'll

6 certainly do that.

7
8 But I don't think this conversation is
9 really about flooding, if flooding is the question.

10 I think we've got a lot of other conversations that

11 are going on about that independently. I do know

12 that the Mayor was particularly concerned to make

13 sure that the city agencies, which included Police

14 and Fire, OEM, ourselves, DOT, DDC that we were all

15 at least coordinated and looking at it holistically.

16 CO-CHAIRPERSON RICHARDS: All right. I

17 would just urge you guys, although I understand this

18 is new, and I think you should be having

19 conversations at the very least with elected

20 officials on what they believe should be moved up

21 Because we would know. If you're trying to fast pace

22 things, we know the particular areas in our

23 communities who go through flooding, who need

24 infrastructure and upgrades. And, you know, it would

25 be good if you guys communicated with us so could at

1
2 least give you priorities in different particular
3 places we know that are problematic where mains have
4 burst before. That may be on your radar, but it's
5 communications are going to be key here.

6 The last question is DEP is currently,
7 and your testimony also spoke of your mapping areas
8 of potential opportunity, and hope to begin
9 construction on potential locations at the end of the
10 summer. Which locations are being targeted, do you
11 think, and can you speak to those?

12 DEPUTY COMMISSIONER ROBERTS: So the
13 primary areas that we're looking at are the areas
14 where our older cast iron infrastructure exists.

15 CO-CHAIRPERSON RICHARDS: Where are those
16 area?

17 DEPUTY COMMISSIONER ROBERTS: Again,
18 Council Member, it's in every borough and it's in
19 many parts of the borough. For example, I mean
20 Downtown Brooklyn would be a place where there would
21 be a nexus. It's a very broad spectrum. It's not
22 one neighborhood versus the other necessarily. But
23 what we're looking to do, and again this has
24 traditionally not been done by the city in
25 partnership with the private utilities. There were

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2 contract issues. There are some challenges to
3 getting from where we are to where we want to be. I
4 think what is very important is that both sides see
5 the wisdom of doing it, and there's a willingness to
6 move the ball in that direction.

7 So we'll take the locations that they
8 have on their radar as being subject to replacement.
9 And we'll look and we'll see do we have something
10 there that we should replace while they're there?
11 And we're going to do the same thing with our stuff
12 and their stuff, and try and line those pieces all
13 up. So it will be on a case-by-case basis, and it
14 will be across all five boroughs.

15 CO-CHAIRPERSON RICHARDS: Well, I'll
16 appreciate that if you can get back, and Council
17 Member Garodnick if you can get back to the
18 committees on where-- Maps in particular where the
19 oldest locations are, we would really appreciate
20 that. You know, we applaud the Administration
21 obviously on their investment, and obviously working
22 towards making sure we can achieve those PlanNY
23 goals. And we're going to look forward to seeing
24 concrete things as we move forward in terms of the 80
25 miles or more being done a year. So thank you.

1
2 CHAIRPERSON GARODNICK: Thank you Chair
3 Richards. I want to note that we've been joined by
4 Council Members Constantinides and Treyger. We're
5 now going to go to Chair Espinal, to be followed by
6 Council Member Barron.

7 CO-CHAIRPERSON ESPINAL: Thank you
8 Council Member Garodnick. I want to go back to the
9 unaccounted for water rate. And so when a pipe gets
10 compromised and the water leaks so that falls into a
11 compromised water leak, correct?

12 DEPUTY COMMISSIONER ROBERTS: That would
13 be leakage. If this 24%, and again this is somebody
14 else's interpretation of a number. So to be able to
15 drill down on the specifics of it would be a little
16 bit difficult for me here.

17 CO-CHAIRPERSON ESPINAL: But if there's a
18 leak, it falls into the unaccounted for water rate?

19 DEPUTY COMMISSIONER ROBERTS: If it's --
20 Yes, yes.

21 CO-CHAIRPERSON ESPINAL: So what's the
22 protocol? What's the process? Can you walk me
23 through that? What do you do to make sure if this
24 pipe has been compromised that gets fixed?

1
2 DEPUTY COMMISSIONER ROBERTS: So we have
3 a Leak Detection Program where our crews what we call
4 scan. There's acoustical instruments that they use.
5 They listen to the noise on the pipes in the ground.
6 So they scan community board by community board, the
7 City on a regular cycle. And where they identify
8 leaks, the leaks are then investigated, and
9 remediated whatever the cause is. Sometimes, often
10 times the cause would be a private service line, in
11 which case we'll notify the property owner. If it's
12 something attached to the City infrastructure we'll
13 correct the condition.

14 CO-CHAIRPERSON ESPINAL: So the
15 unaccounted for rate calls, would you say that DEP
16 puts it in the books as a loss?

17 ASSISTANT COMMISSIONER MURIN: Mr. Chair,
18 I'm Joe Murin, Assistant Commissioner of Budget, but
19 what we I think as Jim alluded to before, we have
20 what is the delivery rate, which is what the sewer
21 operations accounts for is what they get through the
22 reservoirs and then distribute the system. We as
23 what we bill for system, what the customers see is
24 what their usage is. So that's the basis of what we
25 will bill, and raise as revenue there. So that

1
2 accounted for -- unaccounted for water as
3 characterized does not go into that calculation of
4 what is billed. That's based on what is the usage by
5 owners, tenants, industrial users, and commercial
6 users.

7 CO-CHAIRPERSON ESPINAL: I guess my
8 concern is that every year we have water rates going
9 up in the city and the cost of living is increasingly
10 high, as we all know, because we live here. And I
11 just want to see there's ways that the DEP can create
12 -- find ways to cost -- to cut, you know, the cost
13 for our consumers.

14 DEPUTY COMMISSIONER ROBERTS: And I think
15 that that is a shared goal. I know it's a shared
16 goal. Again, if you look at the MMY data on our
17 leaks overall, they have trended down. We can, in my
18 view, attribute that to a couple of things, one of
19 which is we spent a considerable time, and it does
20 dovetail with the water main break decline as well.
21 We've spent a significant amount of energy over the
22 last several years controlling what we call pressure
23 gradients, right. So making sure that the city is
24 broken up, and not everybody is -- It's not
25 transparent to every citizen, but the city is broken

1
2 up into different pressure gradients, pressure zones
3 depending on how high the city is.

4 So, for example, a place like Washington
5 Heights, which has a very high elevation with regard
6 to our reservoir is at a different pressure gradient
7 than the Rockaways, for example, or Coney Island
8 where you're out by the beach. So we've spent time
9 doing two things. One, making sure that the areas
10 that are bounded off are bounded off both
11 effectively. Meaning that the gates are closed. Not
12 the gates are closed, but the areas between the
13 pressure zones are actually separated. And then with
14 equipment that manages that -- that pressure
15 differentiation is operating. So we put in place a
16 program a couple years back to really commit to the
17 repair and maintenance of the valves that control the
18 pressure.

19 So that's one fact of the low -- the
20 better you manage your pressure, the less leakage.
21 If all other things being equal, if the hole in a
22 pipe, or if the end of a pipe is the same size, the
23 greater the pressure the water is going to come out
24 of it. So by controlling the pressure, you'll reduce
25 the leakage. We do the Problematic Leak Detection

1
2 and we identify leaks there as well. And then we've
3 also rolled out the program for the service line
4 protection, which we think will be of benefit to the
5 property owners.

6 And lastly, our AMR program, the
7 investments that we've made in the automated meter
8 reading has really helped us gain clarity into. And
9 the property owners, which is probably more
10 important, into what's happening in their individual
11 homes. We can really look with a high degree of
12 resolution, and say, You know what, and something is
13 going on here. Your usage despite whether it's a
14 leaking toilet or something, and there are ways that
15 our customer service communicates with the billing
16 parties to notify them. All those things coupled
17 together, in a perfect world we'd love to have zero
18 leakage. I think that's the ideal we shoot for, but
19 overall I think we'd made improvements with managing
20 it.

21 CO-CHAIRPERSON ESPINAL: Thank you.

22 CHAIRPERSON GARODNICK: Thank you Chair
23 Espinal. Now Council Member Barron to be followed by
24 Council Member Gentile.

1
2 COUNCIL MEMBER BARRON: Thank you to the
3 Chairs that are conducting this hearing and to the
4 panel for your testimony. So if a person's water
5 bill goes up, you notify them that there may be a
6 problem, and that they should check to see if they
7 have a leaky toilet?

8 DEPUTY COMMISSIONER ROBERTS: That's a
9 Leak Notification Program that's associated to --
10 The computer is keeping track of what the normal
11 usage in your home might be. So for example, Council
12 Member, if -- I'm really making this up, but if you
13 use 50 gallons of water a day or 100 gallons of water
14 in your day on average in your property on average,
15 and all of a sudden it's spiked to 100-- I forget
16 what the percentage is, but it's 200% I'm being told.
17 There's a notification process where we'll call you,
18 or we'll make contact with you and say, Listen, we're
19 noticing this spike in your usage. Maybe you had
20 visitors in, you had more people in the property.
21 Maybe it's the holidays or something.

22 COUNCIL MEMBER BARRON: [interposing] So
23 what is the percentage, what is the change difference
24 that initiates you contacting somebody to say that
25 there's a spike?

1
2 ASSISTANT COMMISSIONER MURIN: Well, I
3 think -- I'm sorry, Council Member, but I believe
4 what we do, to just clarify what Commissioner Roberts
5 is saying, it's what we would characterize as the
6 Leak Forgiveness Program. What they involve--

7 COUNCIL MEMBER BARRON: [interposing] A
8 Leak Forgiveness Program?

9 ASSISTANT COMMISSIONER MURIN: A Leak
10 Forgiveness Program, and this is something that the
11 Administration did implement, will be implementing
12 with the new rate that is -- will take effect on July
13 1st. And we can get you the details. I'm going to
14 paraphrase if you're with Bedford-Stuyvesant [sic].
15 But with the AMR since the individual can now detect,
16 see how their usage is going, if there is, you know,
17 a spike in usage that is larger than might normally
18 have been seen for that individual, they will then
19 get a notification from our customer service bureau
20 that they're having a significantly higher use.

21 COUNCIL MEMBER BARRON: So is this a new
22 program?

23 ASSISTANT COMMISSIONER MURIN:
24 [interposing] Yes, it is a new program.

1
2 COUNCIL MEMBER BARRON: So it has not
3 calculated yet?

4 ASSISTANT COMMISSIONER MURIN: It will
5 start July 1st. It will start in July, and what it
6 will entail is that those individuals where if you
7 had a very large usage that you will be able to go
8 and be able to say that, you know what, this was a
9 leaking toilet. I've now gone and fixed it, and
10 we'll be able to go back, prove that you did that.
11 And we'll be able to forgive that bill, that
12 incremental portion on your bill because of that leak
13 that was there.

14 COUNCIL MEMBER BARRON: So that
15 incremental portion will be forgiven for the entire
16 period of time that that use--

17 ASSISTANT COMMISSIONER MURIN:
18 [interposing] I don't want to say something that's
19 going to be incorrect. You know what I think we'll
20 do is we'll-- I'll talk to the customer service
21 people when I get back.

22 COUNCIL MEMBER BARRON: Okay.

23 ASSISTANT COMMISSIONER MURIN: And I
24 think we can get your office, as well as the other
25 council members the details on that program.

1
2 COUNCIL MEMBER BARRON: Thank you. The
3 other question I had regards sewage backup. My
4 district is East New York, and has the sewage
5 treatment plant for Ward 26, which I believe received
6 quite a bit of money when President Barack Obama had
7 programs in 2010 or '12. I believe they got a
8 sizeable amount of money. I would like to know if
9 you know what that money went for, and what the money
10 that you've identified is going to be given coming
11 up? What that money is for, the \$282 million.

12 DEPUTY COMMISSIONER ROBERTS: So, Council
13 Member, let me address the first part, and we are
14 regrettably aware of the problems that happened in
15 your district with regard to that storm that impacted
16 the Spring Creek facility. And we believe we've
17 identified the culprit in that particular event. We
18 believe very strongly that that specific event was a
19 runoff. The issue with regard to the funding, and
20 I'll let Joe speak to.

21 ASSISTANT COMMISSIONER MURIN: Council
22 Member, we received a number of, you know, over-- I
23 believe it was \$200 million for the Reinvestment and
24 Recovery Act from President Obama back in 2009. Some
25 of those funds were allocated to the 26th Ward. I

1
2 don't recollect off the top of my head what the
3 specific projects, but we can go back and we can get
4 that information as well.

5 COUNCIL MEMBER BARRON: Okay, I
6 appreciate that. Now, in terms of the major problem
7 of the runoff, I would like for you to give me the
8 details of how that happened. I understand that
9 there was a new system, or new equipment that had
10 been put in. It was supposed to be automated, and
11 there was some failure with that process. And that
12 subsequently someone was there with the next big rain
13 to manually make sure that the problem did not occur.
14 So if we just put in some equipment at whatever cost
15 it was, and it failed. Why didn't we know at the
16 time that it was failing, that there was a problem?

17 DEPUTY COMMISSIONER ROBERTS: Council
18 Member, that's a perfectly legitimate question to
19 ask. As I understand it, there was a sensor that
20 went bad that was the primary bad actor in this
21 event. Sensors do go back. So parts do go bad.
22 Your question about the notification, why we didn't
23 have notification ahead of time I think is under
24 investigation right now. We're really drilling
25 through those details, and I think the second part of

1
2 your statement in terms of us manning that facility,
3 having personnel there, is a commitment that we've
4 made. Through and until we both have confidence that
5 we've drilled down and found the problem, and two,
6 that we've corrected it and we're satisfied that it's
7 corrected. So we do know that it had to do with the
8 sensor that controls the operation of a gate. The
9 exact cause is under investigation, and the personnel
10 are at that facility now as a matter of routine until
11 such time as we've corrected the problem, and are
12 satisfied that the problem is corrected.

13 COUNCIL MEMBER BARRON: Thank you and
14 then finally so all of those persons who incurred
15 loss because of that, they will be made whole?

16 DEPUTY COMMISSIONER ROBERTS: That--

17 COUNCIL MEMBER BARRON: [interposing]
18 Those who have filed a claim with the City?

19 DEPUTY COMMISSIONER ROBERTS: That's a
20 matter for the Controller's Office to make that final
21 determination. We are working with the Controller's
22 Office, and we'll certainly share with them all of
23 the insight that we have about the defective -- You
24 know, what actually transpired when we are able to
25 drill through it. But again, I know that the

1
2 Commissioner has spoke to you, and your constituency
3 to make sure that those claims are in, and they'll be
4 processed in the Controller's Office is really the
5 last voice for it.

6 COUNCIL MEMBER BARRON: Thank you.

7 CHAIRPERSON GARODNICK: Thank you,
8 Council Member Barron, and before we go to Council
9 Member Miller, who will be next, let me just follow
10 up on one line of questions on the combined sewer
11 overflow, the storm runoff. It always surprises my
12 constituents when they hear that when we have a heavy
13 rain that our system simply can't handle it, and that
14 we dump sewage into our rivers.

15 There's been a lot of discussion about
16 ways to contain water above grounds so it doesn't go
17 into our system. Do you think that there could ever
18 be enough capacity to contain water above ground so
19 as to eliminate this problem? Or, do you think that
20 the only way to ultimately deal with it would be to
21 build more pipes and more treatment plants, et
22 cetera?

23 DEPUTY COMMISSIONER ROBERTS: Right.

24 That's a difficult question to answer. The first
25 question -- the first part of it that I think is easy

1
2 to answer is, Do I think we could build enough tank
3 storage, or storage capacity somewhere to capture
4 every drop of rain that fell? I think the answer to
5 that is no.

6 CHAIRPERSON GARODNICK: Wait. Let me
7 then clarify.

8 DEPUTY COMMISSIONER ROBERTS: Yeah.

9 CHAIRPERSON GARODNICK: I'm not just
10 suggesting the city building tanks and things like
11 that.

12 DEPUTY COMMISSIONER ROBERTS:
13 [interposing] Right.

14 CHAIRPERSON GARODNICK: I'm really
15 thinking about if you gave incentives to private
16 property owners to green their property, green roofs,
17 and this idea. All of the things that you could
18 possibly do in a city the size New York, could you
19 above ground deal with it?

20 DEPUTY COMMISSIONER ROBERTS:
21 [interposing] I think--

22 CHAIRPERSON GARODNICK: It sounds like
23 the answer is probably still no.

24 DEPUTY COMMISSIONER ROBERTS: I still
25 don't believe, and what we've done. I think the

1 answer would be no. From a practical standpoint I
2 think it would be no. However, it doesn't mean that
3 we cannot make things incrementally better. So our
4 Green Infrastructure Program, for example, is
5 designed around just that point. Trying to capture
6 storm water before it gets into the system to allow
7 it to be detained where possible. And then
8 reintroduced to the system after the storm has
9 passed.
10

11 Realize that the challenge with the
12 combined system is really this, it's when it's
13 running at the peak flow of a really high intensity,
14 high duration, long duration storm that creates the
15 capacity issue. So combined systems, and this is
16 rules of thumb, might be designed for 8 to 10%
17 sanitary flow. And the other 90% is for storm flow.
18 So they're really designed for that storm element.
19 What we want to do is we want to try and hold as much
20 water as we can from getting into the system for as
21 long as we can. The gray infrastructure the CSO
22 tanks and those of things are -- they do perform a
23 certain service for the local water quality.

24 We don't believe that they are
25 necessarily the best investments that we can be

1
2 making. And lastly, on the private side, we did
3 enact I guess it was to years ago, a storm water rule
4 that basically requires on-site detention by any
5 development that has gone forward in the last two
6 years where they're holding back 90% of their
7 developed flow onsite. So I think it's a combination
8 of things. I don't think that there's a magic bullet
9 with regards to managing it. I think we just need to
10 be strategic and thoughtful about the ways we try to
11 apply the science that we know.

12 CHAIRPERSON GARODNICK: So you don't
13 think that there would ever be a way to completely
14 eliminate the challenge of putting our sewage in our
15 waterways?

16 DEPUTY COMMISSIONER ROBERTS: Ever is a
17 long time, but I think practically speaking what you
18 are talking about is total sewer separation. So
19 reconstructing the city to where there are no
20 combined sewers. There are sanitary sewers and storm
21 sewers. I don't see that that's practically going to
22 happen in any of the foreseeable future.

23 CHAIRPERSON GARODNICK: How many days a
24 year-- And then we'll go to Council Member Miller.

25

1
2 How many days a year do we have this overflow issue
3 on average?

4 DEPUTY COMMISSIONER ROBERTS: And so when
5 I really -- I work hard not to do this, but I can get
6 you that number back. Only because you're starting
7 to get into the details of the shop that I don't have
8 the direct day-to-day on. We know what that number
9 is. I apologize. I don't have it with me today,
10 [sic] but we'll certainly have staff get it to you.

11 CHAIRPERSON GARODNICK: Okay, thank you.
12 Council Member Miller.

13 COUNCIL MEMBER MILLER: Thank you, Chair
14 Garodnick, also the Co-Chairs and to the Panel for
15 bringing this important information not just to the
16 Council, but to the community at large. So back to
17 the water mains, and not just the broken but the
18 leaks. I was unclear. Are there acceptable amounts
19 of leakage that go unrepaired that we could just kind
20 of go on with the day-to-day?

21 DEPUTY COMMISSIONER ROBERTS: I think
22 that there are -- I think that there are always
23 going to be leaks in systems. I think the question,
24 the question is the balancing point. Let me start by
25 saying technologies change. Along with those cast

1
2 iron mains, that we've been talking so much about
3 appropriately, the technology in terms of how those
4 mains are joined together, frankly allowed for
5 leakage when they were constructed. So there was
6 some sort of implied understanding that you were
7 going to have a certain percentage of leakage. I
8 think from an industry standpoint, I think being in
9 the area that we're in is fairly respectable. Would
10 we like to be lower? Yes. I don't see it
11 necessarily as a real red ticket item at this point.

12 COUNCIL MEMBER MILLER: So aside from the
13 initial construction, that type of leakage, is there
14 anything else that would kind of fit into those
15 numbers of acceptability?

16 DEPUTY COMMISSIONER ROBERTS: To what
17 causes the leakage?

18 COUNCIL MEMBER MILLER: No just as a --
19 Yeah, is it something other than that, that
20 contributes to those numbers? Is that also
21 acceptable? This is not the big breakage we're used
22 to seeing, but what I'm trying to get at is it-- When
23 it becomes a significant enough number do we then
24 address it, or at what level is it still acceptable?

25

1
2 DEPUTY COMMISSIONER ROBERTS: Okay. So
3 Council Member I apologize. I may not have
4 understood your question the first time. If we know
5 about a leak -- if we know about a leak, we're going
6 to fix it. So we won't let the leak go unattended
7 to. It may or may not be prioritized based on how
8 much it's leaking at a given point in time. And
9 again, most often, the dynamic is between the private
10 property owner -- The homeowner's service lines.
11 That's why we think that this service line protection
12 is such a good concept to put forward. Because it
13 becomes an unexpected expense, right. You wake up on
14 Tuesday morning and by the way you need \$3,500 to
15 \$5,000 to effect it. So we can get those done more
16 quickly. What we've historically done is we've
17 tried-- Where the leaks are not causing damage to
18 the roadway or the surrounding street, we've tried to
19 work with the property owners to give them a
20 reasonable period of time to engage a plumber in a
21 responsible way.

22 COUNCIL MEMBER MILLER: Okay, I was kind
23 of referring to city owned infrastructure, but coming
24 from a district that's about 65% homeownership, we're
25 out there all the time. I have not experienced that

1
2 reasonable response. It's almost like two days or
3 we're going to shut you down, or it has been. And
4 perhaps depending on the severity it--

5 DEPUTY COMMISSIONER ROBERTS:

6 [interposing] Right.

7 COUNCIL MEMBER MILLER: --but they have
8 not been so compliant as far as that is concerned.
9 So perhaps that is something that we can address
10 offline. But, as we start talking about prioritizing
11 or balancing, when you have a system of this age,
12 there is a lot of work that needs to be done. Is
13 most of this work-- How is the working being done
14 in-house as opposed to contracted out? What are the
15 numbers and who is doing what?

16 DEPUTY COMMISSIONER ROBERTS: We do the
17 majority of the leak repair work in-house. We do a
18 significant population of break repair in-house with
19 city forces. Most of the stuff that is given our
20 emergency contractor is given to them for a handful
21 of reasons. One, complexity. If it's complex enough
22 to require special equipment, bigger equipment.
23 Deeper excavations where they have a greater
24 expertise with that than our folks. If it impacts a
25 larger piece of the surrounding street. So if the

1
2 restoration is going to be a big part of the job,
3 we'll give it to the contractor. They're better at
4 that, and our forces can work on the things they're
5 better at. So we try to match their skill sets, but
6 mostly it's complexity.

7 COUNCIL MEMBER MILLER: Okay, so that's
8 pretty much what I was getting it. Because the
9 majority of the work is done by the in-house, by the
10 City workforce. And that you match the skill set
11 with those particular jobs where necessary, then that
12 would not directly have a real impact on progress
13 moving forward. When we say that we have budgeted
14 for projected projects, these unintended consequences
15 and breaks and so forth has kind of been factored
16 into that?

17 DEPUTY COMMISSIONER ROBERTS:
18 Independent.

19 COUNCIL MEMBER MILLER: Okay, great. So
20 my next and almost final question would be as it
21 pertains to Southeast Queens. What exactly are some
22 of the projects? When we talk about the 2014, 2015
23 going out projects, the more immediate projects will
24 we be seeing there? I know we have some long-term
25

1
2 really big capital sewer projects. What are we
3 looking at?

4 DEPUTY COMMISSIONER ROBERTS: I'm going
5 to let Mr. Garin give you that answer. I can tell
6 you that specifically on the water supply side, and
7 again there were some references in the report to
8 miles of pipes of various sizes. So again, as
9 yourself and Council Member Richards are well aware,
10 that area was previously serviced by a private water
11 company. And we have a couple of really major
12 projects in terms of footage. We have 50,000 plus
13 square foot distribution jobs where we're just
14 replacing water mains in local blocks with larger
15 sized, newer pipes. So that will have the benefit of
16 a couple of things. It will have the benefit of a
17 couple of things. It will have the benefit of
18 getting rid of the older stuff obviously. It should
19 improve water quality. It should improve fire
20 protection and pressures in the area.

21 So I think we've got at least one that's
22 out on the street, and one that's hot on it's heels
23 if it isn't out on the street. With that, I'm going
24 to pause and let Mr. Garin give you a snapshot. I
25 think the length of the list might be fairly long.

1
2 We can give that to you in writing, but maybe if you
3 can just touch on a couple of big ones.

4 JAMES GARIN: Sure. Hi, I'm Jim Garin.

5 I'm the Director of Engineering, and some of the work
6 that we've done in Southeast Queens, and have planned
7 for Southeast Queens, we've done a significant amount
8 of work in the Springfield Gardens area. Right now
9 we have probably a most similar type Bluebelt project
10 that we've done out there at Springfield Lake. Very
11 similar to what we do out in Staten Island. Also out
12 there we're tackling a lot of work around ponds. So
13 we have a project that's projected for Baisley Pond.
14 We also have some projected work at Twin Palms.

15 A lot of upgraded infrastructure work in
16 the Far Rockaways. We have a project that just
17 started on Chandler street, which is very important.
18 And a lot of significant build-out in the Far
19 Rockaways. That just kind of gives a snippet, but we
20 do have a significant amount of work. A lot of our
21 budget, overall budget goes for storm water
22 improvements in Southeast Queens, particularly
23 Council -- Community Boards 12 and 13.

24 COUNCIL MEMBER MILLER: And how much of
25 these projects will really impact the reduction of

1
2 flooding? Is it really designed for flooding because
3 I know the long-term infrastructure pieces that the
4 Deputy Commissioner mentioned, and then this is
5 something separate and apart. So I think that's a
6 big issue in being able to alleviate that. How much
7 relief are people going to see immediately?

8 DEPUTY COMMISSIONER ROBERTS: So I'll
9 attempt to answer that. The two-prong approach, and
10 while we are focusing on the build-out of the storm
11 system with any of the projects that we do where the
12 storm system is -- needs to be upgraded whether it is
13 in Southeast Queens or Staten Island. Any time we're
14 going in there, we're looking at the sanitary
15 infrastructure as well. So we'll be replacing or
16 rehabilitating sanitary infrastructure and water
17 infrastructure in any of those projects. So the
18 driver is really the extension of the storm system,
19 but everything comes along with it when we go. As we
20 will replace the sanitary and the water supply side.

21 In terms of quantifying the relief, we
22 can be able to talk about it in terms of miles of
23 extension. You know, again as you're aware, one of
24 the things that we've sort of changed fundamentally
25 about our approach is looking now to areas where we

1
2 can do smaller more targeted projects that hit
3 certain known areas. And we've found that to be so
4 far successful. It's still the overall progress of
5 building out the entire system down there is
6 extensive. It's several decades of work, but every
7 step we take forward is a step in the right
8 direction. I would say that each of the projects
9 that extend the storm system, are probably on the
10 order of anywhere from \$20 to \$30 million projects.
11 We try to bundle them in sizes that are manageable by
12 given contracts.

13 And so you don't put all your eggs in one
14 basket. If you run into a problem with a contractor,
15 or one specific contract issue, then everything
16 stops. So the projects do tend to get bundled in
17 projects that range in that area, maybe \$20 to \$30
18 million. Sometimes a little bit more and sometimes a
19 little bit less. I hope that answered the question.

20 COUNCIL MEMBER MILLER: So that's been
21 very helpful, and I just again want to thank you for
22 your hands-on work that you've done in Southeast
23 Queens, and kind of walking me through a lot of this.
24 I really appreciate that. And finally, on some of
25 those larger projects, something I had experienced is

1
2 the coordination between some of the utilities as to
3 getting them done. You know, I know you've got to
4 pull some pipes out to put water in, and those take
5 sometimes years for completion and has a real impact
6 on the quality of life. How are we doing with those
7 coordinations as we move forward on our Build-out
8 Program?

9 DEPUTY COMMISSIONER ROBERTS: And I just
10 want to add that it's been very helpful, and we
11 appreciate your support, and the support of Council
12 Member Richards with regard to the things that we are
13 trying to do. And many of the other council members
14 around the city. Your support and input is helpful
15 to us. So it's my pleasure to be able to try and
16 push some of those things along. With regard to the
17 coordination on the bigger projects, DDC does spend -
18 - one of the reasons that are sometimes a little bit
19 more nimble than DDC is as I have explained to you on
20 these sort of strategic projects like these more
21 localized projects is because there is less overall
22 design effort that needs to be put into it.

23 DDC's work is a little bit more
24 illustrative [sic], and one of the things that they
25 do work very hard at, and it's a challenge, is

1
2 coordinating the input from all of the utilities
3 whether it's gas, electric, underground cable. You
4 name it, it's down there, and they have coordination
5 meetings in the early design phases where the
6 utilities are given a sort of heads up on what's
7 coming, and what needs to be done. So, again, always
8 room for improvement. I'm sure everybody can do a
9 little bit better at everything. But there's a
10 significant -- At least there's a significant -- at
11 least a significant mechanism in place that allows
12 for that coordination that was not there 20 years
13 ago.

14 CO-CHAIRPERSON RICHARDS: All right.
15 Next we will have questions from Council Member Costa
16 Constantinides?

17 COUNCIL MEMBER CONSTANTINIDES: Thank you
18 Chair Richards, Chair Espinal, and Chair Garodnick.
19 Good to see you guys again. Just a couple of
20 questions. One, as you know, I represent Astoria.
21 We've got the Bowery Bay Sewage Treatment Plant. I'm
22 scheduled to come through a walk-through. Give me a
23 sneak preview. I know there have been some capital
24 projects going on there relating to infrastructure
25 that's been sort of causing us snow in our neck of

1
2 the woods for about a month and a half now every time
3 it rains. So I just wanted to check up on that and
4 see where things are.

5 DEPUTY COMMISSIONER ROBERTS: If you'd be
6 patient with me for just a second, I'm going to ask
7 Mr. Murin and to try talk to that. And again, I
8 apologize to some degree, we're a little overloaded
9 on the infrastructure on the street representation.
10 So there might be some details about the wastewater
11 treatment plants that I don't have.

12 ASSISTANT COMMISSIONER MURIN: I'd have
13 to say can we follow up with you on that, Council
14 Member, because I don't have I think all the specific
15 details --

16 COUNCIL MEMBER CONSTANTINIDES:
17 [interposing] Okay.

18 ASSISTANT COMMISSIONER MURIN: --that I
19 could get at my fingers right now for Bowery Bay in
20 terms of-- But we could get you a list of what the
21 projects are that are in there, and what the
22 timeframe is on those as well. So I know there is,
23 again, some work that's planned regarding the order
24 of control [sic]. As well, I know there is also some
25 work as the Commissioner testified in terms of the

1
2 Flushing Bay, which I don't know how much that comes
3 over on your side in terms of the dredging project
4 that is planned for there.

5 COUNCIL MEMBER CONSTANTINIDES: The
6 second question is our neighborhood, and I think it's
7 piggybacking on my colleague Council Member Miller's
8 conversation about new projects. You know, our
9 waterfront is exploding in Astoria, and things are
10 getting rezoned rather quickly. It will go from an
11 R4 to an R7A. And what was traditionally a
12 manufacturing zone goes to high-rise buildings rather
13 quickly. And how nimble are we with those projects
14 that have come up that the infrastructure keeps up
15 with the growth that we're seeing in these
16 neighborhoods?

17 DEPUTY COMMISSIONER ROBERTS: That's a
18 great question, and one that I am happy was asked,
19 and one that I'll do my best to respond to. So
20 sometimes those things come up fast for us as well.
21 I think we work very closely with City Planning, and
22 very closely with, for example, Economic Development
23 or whoever; private developers quite frequently in
24 areas. Our staff, the staff under Jim, reviews every
25 proposed sewer connection or water connection to any

1
2 part of our system. So at the end of the day without
3 our consent and approval, the project can't go
4 forward, which sometimes doesn't make us the most
5 popular people in the room. But it does serve an
6 important gatekeeper role.

7 And one of the things that we look very
8 closely at is the capacity of the existing system
9 versus whatever change might be necessitated by
10 rezoning or what have you. Where necessary, we'll
11 take the time to redevelop the drainage plan for that
12 area in its entirety. The infrastructure has to
13 match what's being built out. We have been battling
14 with that, and working with that for the last seven
15 or eight years at a minimum. We do pay very strict
16 attention to it.

17 COUNCIL MEMBER CONSTANTINIDES: And whose
18 responsibility does it become with these large
19 buildings? Is it the developer? Is it the
20 taxpayers? Where does it sort of -- where does it
21 fall when these large buildings are going up--

22 DEPUTY COMMISSIONER ROBERTS:

23 [interposing] Well, at --

24 COUNCIL MEMBER CONSTANTINIDES: -- and
25 with that infrastructure in mind?

1
2 DEPUTY COMMISSIONER ROBERTS: So at the
3 end of the day, the best of all worlds is that our
4 proposed work matches up with an area that's going to
5 be developed. If there's a particular developer that
6 wants to move a project ahead of the schedule of what
7 we might be doing, and there's a need to upgrade,
8 they'll make a judgment as to whether that investment
9 in the infrastructure to allow them to build is worth
10 it for them economically. So control on both sides.
11 It's a business -- it becomes a business decision on
12 the development.

13 Where we can, and I think for example,
14 Coney Island would be one place that comes to mind
15 where we've done a redesign of the drainage plan.
16 And we've worked with DDC to sort of support that.
17 Some of the more localized -- I'm going to use the
18 expression one-offs [sic] -- more local developments
19 are often handled by the private developers.

20 COUNCIL MEMBER CONSTANTINIDES: Well, I
21 would just say as we grow, and we're going to
22 continue to grow and thrive, the infrastructure has
23 to keep up. And if you guys and Con Ed and the gas,
24 we've had our challenges in Western Queens. And
25 we've been able to work past them. It's almost ten

1
2 years now, but as we grow, we're going to get to a
3 place where we need to make sure all the
4 infrastructure is keeping up with it, whether it's
5 gas or water. Whatever it is, it can't lag behind.

6 DEPUTY COMMISSIONER ROBERTS: No, we
7 agree and we're working hard towards that. In
8 fairness to the other utilities, they have a hard day
9 today.

10 COUNCIL MEMBER CONSTANTINIDES:
11 [interposing] Oh, yeah.

12 DEPUTY COMMISSIONER ROBERTS: I won't
13 speak for them but they--

14 COUNCIL MEMBER CONSTANTINIDES: Thank you
15 very much.

16 DEPUTY COMMISSIONER ROBERTS: Thank you.

17 CO-CHAIRPERSON RICHARDS: Before we go to
18 Steven Levin, I wanted to raise a question. One of
19 the things my father often taught me is if you want
20 to keep your suit in good condition, you need to make
21 sure you're putting in the cleaners. Right? So I
22 want to know what is DEP doing in particular in terms
23 of their maintenance budget to keep the pipes and
24 everything else in good shape, the green
25 infrastructure? What is your operational budget, and

1
2 how are we not just responding to leaks when they
3 happen, but what are we doing to prevent it ahead of
4 a leak happening? What I'm getting at is we don't
5 want to see what happened in East Harlem ever happen
6 again. Residents don't want to go through these
7 water main breaks across the city, businesses?

8 So what is the operational budget? What
9 do you plan to put into it to maintain what we have?
10 You know, we're not building out as of new year, and
11 also in terms obviously of the Mayor's Housing Plan,
12 we're going to be building a lot more housing in New
13 York City. And we need to know that the investment
14 is there in the long term and short term to make sure
15 that we're just not building onto systems that can't
16 hold. If we can't hold what we have already, how can
17 we expand on these things without investing much more
18 capital in infrastructure? So operational budget
19 first, maintenance on what we have, and then what are
20 we looking to do as we move forward?

21 DEPUTY COMMISSIONER ROBERTS: I'm glad
22 you brought the back flow into it, because I was
23 trying to remember. So operationally, Council
24 Member, again I think it's a good story. You know,
25 it is not a pleasant experience for anybody if you've

1 had a problem with a backup. Whether it has to do
2 with our system or your private lot, it's not a
3 pleasant experience. One of the things that we have
4 worked very hard at over the last several years is
5 exactly that, targeting, focusing, and withstanding
6 the areas that are having the most problems. And
7 diving down into what the root causes are.

9 Our performance metrics in those are, I
10 think in some cases pretty laudatory. We've been
11 able on a system that is broken down into over
12 150,000 segments of sewer. The definition of a
13 segment is block to block. We've been able to drive
14 the number of chronically -- chronic problematic
15 segments down below or around one percent of the
16 overall system. Which is again, if it's the one
17 percent, if you're in that one percent block on a
18 given day it's an unpleasant experience. But from a
19 standpoint of the overall system, we think the
20 performance has improved.

21 We're certainly focused on it like a
22 laser beam. We have changed our operation to be
23 attentive to that. We do on the order of 10% or
24 thereabouts, maybe a little bit more of the system
25 gets cleaned. Ten percent, and let me be clear about

1
2 that. We do about 10% in terms of miles over -- The
3 number miles cleaned over the number miles of the
4 system. We don't clean 10% of the entire system
5 because frankly we feel very strongly that 10% of the
6 -- Much of the overall system doesn't need that same
7 attention. We've run into, and we've got a lot of
8 clarity, on areas where again give years ago I don't
9 think we had this clarity where we have residential
10 grease problems.

11 Residential grease was never a
12 transparent issue to us. It is now. Roughly 65
13 to 70% of the problems that we have on any given block
14 that has a back up, can be tied back to a residential
15 grease or a grease issue in a residential area. So
16 we're doing a number of things. We do a lot more
17 proactive cleaning, programmatic cleaning in those
18 areas. We've done outreach. We have pamphlets, and
19 we do outreach in those areas trying to get the
20 message out to cease the grease. And so on the
21 collection side, that's really how we've managed it.
22 We've reallocated the resources to focus crews on
23 doing specific tasks to do that.

24 On the second part of your question,
25 which is how do you keep pace? It's challenging. We

1
2 work again as the other Council Member asked, we are
3 the gatekeeper for those developments. You can't put
4 the building up. You can't build the auto ramp [sic]
5 by the sea. You can't build those things until we
6 work out the details of how that's going to happen.
7 So in many cases it's new infrastructure whether it's
8 being supported by a development or us. Or, in cases
9 the infrastructure is adequate to support what is
10 being proposed.

11 Realize that when we build out a sewer in
12 any given block we build it out to what the full --
13 we call the full drainage plan. So that contemplates
14 maximum usage. Every lot fully occupied the whole
15 nine yards, and that's really the case. So we take a
16 close look at the capacity and conditions of all
17 those things as they come along.

18 CO-CHAIRPERSON RICHARDS: All right. I
19 thank you for that. I just want to make sure that we
20 don't lose sight of that, an especially in terms of
21 green infrastructure because I've seen where green
22 infrastructure has gone in the past. And I want to
23 make sure as we move forward, especially EJ
24 communities, and in particular where a lot of, it
25 seems to me a lot. A lot less money has been spent

1
2 on green infrastructure that those investments---
3 And I know the Commissioner spoke to it in her
4 testimony, but I want to make sure that as we move
5 forward, that communities that have these
6 longstanding problem are getting the attention they
7 need in terms of equality. I terms of where the
8 money is going, and I will leave it at that.

9 CHAIRPERSON GARODNICK: Thank you, Chair
10 Richards. We'll now go to Council Member Levin.

11 COUNCIL MEMBER LEVIN: Thank you very
12 much, Chairs. Thank you, gentlemen for your
13 testimony today, for being here. I just want to ask
14 about -- Well, first up following up on the
15 previous question or your previous thing about grease
16 collection. What are the efforts? What is the
17 proper methodology of disposing of grease? Is it in
18 the garbage, but it's not compostable, right? Is
19 there a way to safely compost it?

20 DEPUTY COMMISSIONER ROBERTS: You know,
21 I'm going to tell you that I'm not the total expert
22 on the sanitation side of it. It is solid waste,
23 right?

24 COUNCIL MEMBER LEVIN: Right.
25

1
2 DEPUTY COMMISSIONER ROBERTS: For example
3 in the pamphlets, and the outreach programs that we
4 developed. You know we have simple things like
5 grease -- like caps for grease cans. When I was a
6 kid growing up, you couldn't open the freezer without
7 mom's can of grease from the bacon that she made
8 yesterday --

9 COUNCIL MEMBER LEVIN: [interposing]
10 Right.

11 DEPUTY COMMISSIONER ROBERTS: --being
12 frozen in the refrigerator. I think it's become to
13 trendy. It's too easy for many to just clean the
14 frying pan, or the pan out, and pour it down the
15 drain. So holding it and disposing of it as solid
16 waste would be garbage.

17 COUNCIL MEMBER LEVIN: I'm just trying to
18 think of how we can work with the Department of
19 Sanitation on having innovative ways of disposal on
20 their end. Because they're doing a huge amount of
21 organic waste pilot program right now. We're now in
22 a pilot program. We're expanding the program for
23 organics and involving -- Somehow involving us with
24 their organic disposal would be I think a good idea.

1
2 Because it's effective where it's being tried out
3 right now.

4 DEPUTY COMMISSIONER ROBERTS: And again,
5 the industrial commercial waste. The commercial
6 waste has always been sort of managed. There are
7 requirements and regulations --

8 COUNCIL MEMBER LEVIN: [interposing]
9 Sure.

10 DEPUTY COMMISSIONER ROBERTS: --to get
11 that hauled. [sic] It's the--

12 COUNCIL MEMBER LEVIN: [interposing] It's
13 the residential.

14 DEPUTY COMMISSIONER ROBERTS: It's the
15 residential, and well I mean the good news is
16 certainly Commissioner Garcia having worked very
17 closely with us for the past several years is
18 intimately aware of that issue. She was an integral
19 part of a lot of the conversation. So if there's an
20 opportunity to sort of jump on -- tie those two
21 things together--

22 COUNCIL MEMBER LEVIN: [interposing]
23 Sure.

24
25

1
2 DEPUTY COMMISSIONER ROBERTS: --I can't
3 seen anybody more positioned, in a better position
4 than her to do it.

5 COUNCIL MEMBER LEVIN: I think part of it
6 is it's addressing habits. And so, if you can shift
7 the paradigm of people going with habits that would
8 be good. [sic]

9 DEPUTY COMMISSIONER ROBERTS:
10 [interposing] We do education to, you know, secondary
11 schools, get the kids to yell at their parents as
12 opposed to us. Sometimes that's the most effective
13 way. But it is. It's a big part of it, education
14 and breaking habits.

15 COUNCIL MEMBER LEVIN: Okay, and then my
16 other question is around GIS. So I happen to be very
17 close with a -- Close friends with a woman named
18 Wendy Dorf [sp?], who worked for DEP a long time ago,
19 and helped create the GIS System at DEP. What do we
20 do-- there's a lot of advancements going on with GIS
21 these days.

22 DEPUTY COMMISSIONER ROBERTS: Yes.

23 COUNCIL MEMBER LEVIN: It's a
24 professional association in New York. Google is very
25 involved. There are just some very exciting things

1
2 happening with GIS and with technology. What is DEP
3 doing right now to utilize new GIS technologies, new
4 mapping technologies, Google and other things to best
5 track where your problem area. And/or anticipate
6 future problem areas may be? How are you using GIS
7 in today's technological world?

8 DEPUTY COMMISSIONER ROBERTS: Yeah, and
9 so that's-- Again, that's a great question. The
10 agency invested close to \$30 million. The program
11 was ongoing when I took this position in late 2006.
12 And we really, I want to say 'took possession' of it,
13 right? We took it out of the development and started
14 to roll it out closer to 2010. There were earlier
15 iterations of technologies that were not GIS. As
16 everybody understands it today, the GIS.

17 There are different acronyms and
18 different ways of mapping. But we do use it
19 extensively. Three years ago, I had no -- Maybe four
20 years ago, I had really no dedicated staff that was
21 involved with it. Now I have a staff of close to 30
22 that work. They do analysis. They do the hydraulic
23 modeling. We work very closely with ESRI is at the
24 vanguard of--

25 COUNCIL MEMBER LEVIN: [interposing] Yes.

1
2 DEPUTY COMMISSIONER ROBERTS: -- of the
3 entire industry. So, you know, no matter who is
4 doing what, it's usually ESRI on the back end.

5 COUNCIL MEMBER LEVIN: [interposing]
6 Right.

7 DEPUTY COMMISSIONER ROBERTS: And so we
8 work day-to-day ESRI if there's a particular
9 challenge that we're looking to -- we don't have a
10 solution for, we have the ability to bring them in.
11 They work side-by-side with us. So it's been a
12 powerful tool. It's been something that I think has
13 helped us manage the work more effectively, and
14 certainly the planning piece of it is ongoing, but I
15 think we're doing -- we're making progress in that
16 area as well.

17 COUNCIL MEMBER LEVIN: And it has a
18 dedicated budget? I mean you said there are 30 staff
19 members?

20 DEPUTY COMMISSIONER ROBERTS: Well,
21 they're all assumed in the overall bureau headcount.
22 So we've got roughly a little around 1,300 employees
23 within the Bureau and 180 million plus or minus PS
24 OTPS Budget. We don't have a direct budget, but
25

1
2 there is not necessarily-- There's no need that I'm
3 aware of that they don't have.

4 COUNCIL MEMBER LEVIN: Okay, and the
5 technology is that part of your capital budget, or is
6 that part of your OTPS Budget?

7 DEPUTY COMMISSIONER ROBERTS: It's
8 actually -- it's not part of our capital budget,
9 although I believe the upgrade, the actual project
10 that created the GIS system that we have was a
11 capital program. But that's since been closed out.

12 COUNCIL MEMBER LEVIN: Okay, we'd love to
13 kind of hear what advancements are happening, and how
14 that is going, and how could we, you know, best
15 augment would help from the private sector and stuff
16 like that.

17 CHAIRPERSON GARODNICK: Thank you very
18 much, Councilmen, and a couple of clean-up questions
19 before we go to our friends at National Grid and Con
20 Edison. In your testimony you had noted that there
21 is a pilot program, and that this is something, which
22 looks like was announced as part of the National Grid
23 and Con Edison. In your testimony you had noted that
24 there is a pilot program. And this is something
25 which looked like was announced as part of the

1
2 underground infrastructure working group to find
3 areas of particular sensitivity, and have DEP work
4 with the utility companies to actually do work
5 together at the same time. One of the points that
6 was noted in that report issued today was that to
7 fully coordinate perhaps beyond ten pilot locations,
8 that you might need to have an outside entity not the
9 city do the coordination. Like have an academic
10 institution because of the sensitivity of data. What
11 is that all about? What is the sensitivity here,
12 and why couldn't the City manage this information and
13 coordination itself?

14 DEPUTY COMMISSIONER ROBERTS: So I'm
15 guessing, Council Member, because I'm not aware of
16 it. Was there an announcement that was made this
17 morning?

18 COUNCIL MEMBER LEVIN: There was, you
19 know a--

20 DEPUTY COMMISSIONER ROBERTS:
21 [interposing] Okay, I hadn't seen it. I apologize.

22 COUNCIL MEMBER LEVIN: [interposing] It
23 must have been a coincidence with the data of the
24 hearing.

25

1
2 DEPUTY COMMISSIONER ROBERTS: I can't
3 imagine that.

4 COUNCIL MEMBER LEVIN: But there was an
5 announcement that there would be among other things a
6 pilot program. As you noted in your testimony--

7 DEPUTY COMMISSIONER ROBERTS:
8 [interposing] Right.

9 COUNCIL MEMBER LEVIN: --to do some level
10 of coordination, which sounds right.

11 DEPUTY COMMISSIONER ROBERTS: Right.

12 COUNCIL MEMBER LEVIN: But one of the
13 things that it noted was that there's sensitivity of
14 data, and that perhaps it could not be done by the
15 City itself.

16 DEPUTY COMMISSIONER ROBERTS: So we
17 think-- I think where that, and I don't-- certainly
18 don't want to be in conflict with a statement that I
19 haven't read yet that came out of the Mayor's Office.
20 I think everybody can understand that. I do believe
21 that we have the ability between both ourselves, our
22 city partners, and the private utilities that have
23 been mentioned to coordinate. As the Council Member
24 just mentioned, GIS has come a long way. The
25 electronic technology has come a long way. We all

1
2 have capabilities. Overlaying data sets is fairly
3 easy for us to do. There are sensitivities frankly
4 as I suspect, Chair, that you're aware. There are
5 sensitivities to the water supply infrastructure, for
6 example.

7 The water supply infrastructure is still
8 guarded by Homeland Security rules and so on and so
9 forth for the reasons that are obvious. So I think
10 what we always need to leave open is the opportunity
11 to -- The third party opportunity may be around
12 technology that has more higher level planning,
13 location based, project based planning, as opposed to
14 asset level details. But we have the ability to
15 manage the assets, but we want to leave nothing on
16 the table with regard to trying to get it right, if
17 that answers your question.

18 COUNCIL MEMBER LEVIN: Well, at least in
19 part, but I also don't want to put you on the spot on
20 something you haven't read.

21 DEPUTY COMMISSIONER ROBERTS:

22 [interposing] Thank you.

23 COUNCIL MEMBER LEVIN: It just was odd to
24 me the notion that the city would say something is
25 too sensitive for us, the City to handle. Therefore,

1
2 we're going to try to have somebody else handle, but
3 we'll figure that out together. And we'll resolve
4 what they have in mind. But the last question that I
5 have for you is put the pilot program aside for the
6 moment. The idea that there could be a city agency
7 that has access to say all of your maps, and all of
8 Con Ed's maps, and all of National Grid's maps, and
9 everything else to say, Wait a minute. Somebody is
10 opening the street for a particular purpose here. We
11 want -- we happen to know that on average that the
12 age of the pipes under that street that is now about
13 to be opened--

14 DEPUTY COMMISSIONER ROBERTS:

15 [interposing] Yep.

16 COUNCIL MEMBER LEVIN: --one week from
17 now is 75 years old for all of those systems. Here's
18 your chance. Come and fix it altogether. Is that a
19 practical level of coordination that you think that
20 the City could do if it were so inclined?

21 DEPUTY COMMISSIONER ROBERTS: I think
22 that we -- I think that we do it as we speak. I
23 think we can do it better. I think one of the --
24 The paradigm shift here is really what the specific
25 driver is for a given project, right. And so, as I

1 mentioned earlier, we're often trying to dovetail a
2 highway construction project with the needs to
3 rehabilitate a water main or a sewer in a given block
4 or area. And the utility companies at that point
5 come in with us. What the program that we're looking
6 to roll out with the Mayor's direction is really
7 about is focusing now on --

9 So the lead concern being those critical
10 assets, the older cast iron, if that's the
11 determining factor in either population whether it's
12 on the private side or ours. So now with that being
13 sort of the goal, we'll bundle locations into bite
14 sized pieces. Whatever the right number is, \$10
15 million projects. Given them to DDC and DDC will
16 have the ability to coordinate that. DDC gets
17 information. They work seamlessly with us now. They
18 work with the utility partners now. They work with
19 the utility partners now in terms of having that
20 information available. So I do think that there is
21 opportunity to improve it, but I think the capability
22 is there. And then I think there's some opportunity
23 to make sure-- And this may not have been as crisp.
24 It will certainly be moving forward. I think the
25 underground infrastructure group has identified this.

1
2 The communication between the non-city agencies and
3 the private partners about the work that they're
4 doing independent of us or vice versa may not have
5 been as crisp. But I think we've started to put in
6 place some protocols that will address that.

7 COUNCIL MEMBER LEVIN: Well, we look
8 forward to following up with you on that because
9 building and doing coordination of these efforts I
10 think both helps people's quality of life. But also
11 more quickly gets the work done in a way that
12 otherwise has been done in a much choppy or piece
13 meal fashion. Before you're free, I have one of my
14 colleagues, Council Member Ulrich who has a couple of
15 questions for you. So I apologize. I thought I was
16 the end but we're glad that he's back. Council
17 Member.

18 COUNCIL MEMBER ULRICH: We saved the best
19 for last here. So thank you Chairman for your
20 indulgence, and thank the panel especially
21 Commissioner Roberts I want to thank you. You have
22 been a tremendous help to my district over the years,
23 and as you know, we've had so many issues since
24 Hurricane Sandy that have just been exacerbated, of
25 course, by the storm. I know that you and your staff

1
2 have gone out of your way, literally, above and
3 beyond. So I want to commend you, and thank you for
4 that.

5 DEPUTY COMMISSIONER ROBERTS: Thank you.

6 COUNCIL MEMBER ULRICH: The question that
7 I have are two questions very quickly. First, is
8 there any update on the report that DEP was supposed
9 to do following the investigation into what happened
10 at the Spring Creek facility when we had that big
11 rainstorm in Lindenwood and Brooklyn where we had
12 the flood? And the second part is in the budget I
13 know that we have funded, and the Commissioner had
14 testified previously at the last hearing that we have
15 funded bioswales and other flood mitigation projects,
16 small ones. But they were only going to be
17 designated for certain areas, and that was something
18 that we had asked for consideration. In Lindenwood
19 and in parts of Brooklyn could we consider putting
20 those bioswales and other flood mitigating things
21 that DEP is engaging in those areas, even though
22 they're not part of those designated areas?

23 DEPUTY COMMISSIONER ROBERTS: And I thank
24 you for the recognition, and again a lot of the
25 success that we've been able to have has been in

1 partnership with both yourself and colleagues on the
2 Council. So it's a two-way street. With regard to
3 Lindenwood and Council Member Barron was here earlier
4 and asked a question in a similar vein. What we do
5 know at this point is that the root cause to have
6 been a sensor that malfunctioned, and a gate that did
7 not open as a result of that malfunction. The
8 investigation of it is ongoing. We've got engineers
9 both internal and contract engineers, consultants
10 looking at why that happened. Should it have been
11 prevented? Should it have been prevented? It should
12 not have happened. That's crystal clear. But
13 understanding why it happened, and how do you go
14 about ensuring that it does not happen. I know that
15 we made the commitment to have that facility manned
16 until not only the problem is solved to our
17 satisfaction, but until it's demonstrated over some
18 period of time that it's solved to our satisfaction.

19
20 On the second issue, and again, this
21 sometimes I would say is misunderstood in terms of
22 our motivation with regard to the citings of the
23 Green Infrastructure Program citywide. The areas
24 that we chose to start that work in, was really
25 coupled with work that we're doing to reduce CSO in

1
2 specific areas. So there is a pilot program that
3 we've been running and moving forward with success.
4 Having said that, I know that Commissioner Lloyd is
5 particularly committed to looking at exactly the
6 question that you raise, which is where can we
7 leverage that technology or that approach to other
8 areas for mutual benefit? It's not for everywhere.
9 There are challenges with its application in given
10 geographies, but I think Commissioner Lloyd is on
11 record as saying that she's committed to that. So
12 more as we move forward.

13 COUNCIL MEMBER ULRICH: Thank you and
14 again, thank you to the Chair. Thank you for your
15 testimony. You're doing great, great work. Thank
16 you.

17 DEPUTY COMMISSIONER ROBERTS: Thank you.

18 CHAIRPERSON GARODNICK: Thank you for
19 that, and now we have a few follow-ups, and we will
20 follow up with you at the staff level. But we thank
21 you for your testimony, and all of your time today.
22 We appreciate it. And with that, we are going to
23 call up our next panel, which will be comprised of
24 representatives of National Grid and Con Edison of
25 New York, Brian DeMarinis of National Grid; Edward

1
2 Foppiano, Vice President, Con Ed, and Melovan Blair
3 of Con Ed. Welcome. That's all right. Thank you.

4 [Pause]

5 CHAIRPERSON GARODNICK: Thank you,
6 gentlemen, and whenever you're settled, we will get
7 started.

8 [Pause]

9 CHAIRPERSON GARODNICK: Welcome. Who
10 would like to kick it off?

11 [background discussion]

12 MELOVAN BLAIR: I'll go ahead. Good
13 afternoon, Chairman Garodnick, Chairman Richards,
14 Chairman Espinal. I'm Melovan Blair, Senior Vice
15 President of Central Operations. I'm going to talk
16 to you today about our Steam System, which I am
17 responsible for. Our steam system started back in
18 19-- in 1882 at the New York Steam District Heating
19 System. We have generating stations that produce
20 steam, and then we send it out to customer via pipes
21 on the ground. The steam customers use it for
22 heating and to cool high-rise buildings, hospitals,
23 dry cleaners, and other businesses also use steam for
24 cleaning, climate control, and sterilization. We're
25 the largest commercial steam system in the Unites

1
2 States, larger than the next nine largest systems
3 combined. We have approximately 100 miles of main
4 and serviced as part of our infrastructure.

5 We provide steam to more than 1,700
6 customers. Some of our more famous customers are the
7 United Nations, the Empire State Building,
8 Metropolitan Museum of Art. Steam is good for the
9 environment. You don't have to use oil boilers in
10 the buildings or gas fire boilers that take valuable
11 building space. Using steaming conditions offsets
12 375 million watts of electric system. Two-thirds of
13 our steam is produced by cogeneration with an
14 efficiency of 85%, which is much better than a cogen
15 which is 55%.

16 Con Ed Steam Supply reduces pollutants
17 including 1.6 million in terms of carbon dioxide
18 annually, the equivalent to taking 275,000 cars off
19 the road each year. Roughly, 23 billion pounds of
20 steam flows through our system every year. For
21 example, for our summer peak we have about five
22 million pounds of steam per hour. We have a
23 comprehensive maintenance plan. We inspect our steam
24 trap six times per year, and we inspect our manholes
25 once per year. We have installed remote monitoring

1
2 on the system so the operators can add real time
3 information on the operation of the system. We have
4 added natural gas to two of our major plants, which,
5 of course help in reliability and security.

6 Since Super Storm Sandy, we fortified our
7 energy system spending -- In 2013, we spent \$60
8 million. In 2014, we already spent \$50 million and
9 we are going to spend \$145 million between 2014 and
10 2016. And, of course, our always to provide safe and
11 reliable steam energy to our customers and respond to
12 their needs quickly.

13 EDWARD FOPPIANO: Good afternoon. So
14 Chairman Garodnick, Chairman Richards, and Chairman
15 Espinal and members of the City Council. Thank you
16 for the opportunity for us to be here today to speak
17 about our gas safety and maintenance. I'm just going
18 to give a quick summary of my testimony.

19 CHAIRPERSON GARODNICK: Also, introduce
20 yourself.

21 EDWARD FOPPIANO: My name is Ed Foppiano
22 and I'm the Vice President of Gas at Con Edison. So
23 I wanted to start off by saying that myself and all
24 the folks at Con Ed are deeply saddened by the
25 tragedy that happened in East Harlem, and we're 100%

1
2 committed to make sure that we determine what
3 happened, and try to prevent this, or anything like
4 this from ever happening again. We're working with
5 the National Transportation Safety Board on the
6 investigation, and because of working with NTSB,
7 we're limited on what we can say at this time
8 regarding the recourse.

9 So I'm here today to really give you a
10 sense of the scope of our gas system. So we have
11 4,300 miles of main, and about 368,000 gas services.
12 We service Manhattan, parts of Queens, the Bronx and
13 Westchester to about 1.1 million customers. Public
14 safety is our number one driver. We've recently
15 redoubled our efforts to examine our maintenance and
16 leak detection practices. This included educating
17 the public with a multi-lingual campaign on the
18 importance of reporting gas leaks. I can't emphasize
19 enough the importance of someone calling 911 if you
20 smell gas. We have a little slogan, "Smell Gas. Act
21 Fast." And we're looking for folks to get away from
22 they're smelling the gas, and report it to 911 or
23 they can call the utility.

24 Leak detection is an area that we're
25 trying to improve. Currently, we do a one-week

1
2 survey a year of our mains, and at least once every
3 three years on our services. I'm pleased to announce
4 that about a week ago we started a pilot. What we're
5 doing is we're combining a pilot of what we call a
6 straight voltage vehicle that looks for contact
7 voltage where it shouldn't be in manhole covers or
8 street lights.

9 We're combining that equipment with gas
10 leak detection equipment. Our stray voltage
11 equipment goes out-- They do a complete survey 12
12 times a year, and we're hoping that this will be a
13 way for us to increase the number of leak surveys
14 that we do in a year. Since the East Harlem strategy
15 -- tragedy, we have also met with city emergency
16 officials on how to improve response to gas odor
17 calls and other events in the city infrastructure.
18 So one major initiative is working with the Fire
19 Department, and have more calls go -- possibly all
20 calls go through 911, and having the Fire Department
21 respond to those calls. The Fire Department can get
22 there within less than eight minutes. In 2013, our
23 average response time was 22 minutes. So, we feel
24 that working with the Fire Department and partnering
25 with them, that would help with emergency response.

1
2 We've also nearly doubled our main
3 replacement program in recent years. Right now we're
4 doing 65 miles a year for the next three years. Our
5 capital budget is about \$500 million a year, and
6 about \$215 million of that goes towards the
7 replacement of gas mains. The cost to replace all of
8 our remaining cast iron and gas steel piping is about
9 \$10 billion. So that's a significant amount. We
10 respond to about 33,000 reports of gas odors each
11 year, and I mentioned our response time. And we
12 currently interact with the Fire Department on about
13 4,500 of those responses.

14 Natural gas is the nation's cleanest
15 fossil fuel, and buildings in New York City as part
16 of the Clean Heat Program are converting from heavier
17 dirtier oil to natural gas. We accept our
18 responsibility to provide energy safely, and we take
19 it very seriously. It is our duty to protect the
20 people who live in our communities, and we are your
21 neighbors and keeping all of us safe is at the heart
22 of our mission. Thank you. Oh, one other comment.
23 We have the Stray Voltage, combination our Stray
24 Voltage and Gas Leak Detection van. It's actually
25 outside opposite 250 Broadway on this side of 250

1
2 Broadway. So if you'd like to see this afterwards,
3 you're more than welcome. We have folks here that
4 can tell you about the equipment that we use. Thank
5 you.

6 CHAIRPERSON GARODNICK: Thank you. Thank
7 you very much.

8 [Pause]

9 ROBERT DEMARINIS: Good afternoon,
10 Members of the City Council. Thank you for this
11 opportunity to appear today to discuss New York
12 City's utility infrastructure. My name is Bob
13 DeMarinis. I'm responsible as Vice President of
14 National Grid for all of the gas operation in the
15 State of New York. I've got 33 years experience with
16 the company or its predecessor companies in power
17 generation, electric, and gas operations. To put
18 things in perspective as far as National Grid in the
19 State of New York we own and operate the distribution
20 utilities that provide service to approximately 2.4
21 million customers in Upstate New York, Long Island
22 and the boroughs of Staten Island, Brooklyn, and
23 Southern Queens.

24 We have about 21,000 miles of gas
25 transmission and distribution pipelines throughout

1
2 the state including 4,100 miles of main in New York
3 City. National Grid's number one priority is, and
4 always will be safety to our employees, our customers
5 and members of the public. To that, we are committed
6 by prudently investing in our gas infrastructure
7 maintaining a safe and reliable operation. We have
8 invested more than \$2.2 billion in our gas
9 infrastructure in the State of New York in the past
10 five years. Approximately half of that occurred
11 right here in New York City.

12 One of the larger projects, the BQI, for
13 example, is going to provide a new pipeline supply
14 delivery into New York City. This project is going
15 to enhance the reliability of our system,
16 specifically to the Rockaway Peninsula, and permit us
17 to get greater quantities of natural gas to this
18 region in an economical manner. We've converted
19 nearly 15,000 customers this past year to natural
20 gas. Over 1,000 of those are here in New York City.
21 We've partnered with the New York City Clean Heat
22 Initiative to accelerate the phase out of heavy oils
23 in 750 buildings here in New York City, and we've got
24 approximately 128 remaining. And in much of our

25

1 investment over the next couple of years is going to
2 allow us to do that.

3
4 In addition, our capital investment
5 program has, and continues to include projects to
6 strengthen the resilience of our gas system following
7 Super Storm Sandy. We've done significant system
8 upgrades in the hardest hit areas, in particular the
9 Rockaway Peninsula where we've replaced more than 30
10 miles and upgraded pressures on that peninsula as
11 well as parts of Southern Queens, and the Newdorf and
12 Midland Beach areas of Staten Island. Our gas
13 business faces the challenge of improving the
14 integrity of a system that is amongst the oldest in
15 the United States while also at the same time meeting
16 the growing demands of new customers.

17 Over the next two years, we'll invest
18 more than \$1.4 billion in gas infrastructure projects
19 in New York State. More than half of that will occur
20 here in New York City. These investments are going
21 to increase jobs; improve reliability and safety;
22 convert additional customers that want natural gas,
23 as well as benefitting the environment.

24 I'd like to just speak to a couple of key
25 points as part of our business plan, and where I

1 think where we've got the opportunity to improve
2 specific initiatives going forward. Number one is
3 more engaging and effective public awareness
4 programs. We need to engage critical stakeholders,
5 the first responders to schools. We've launched a
6 new Power to Serve volunteer effort in the schools
7 with regards to gas safety. As part of that gas
8 safety education, not only recognizing the odor of
9 gas and who to call, but also a huge effort on damage
10 prevention. We have 200 damages in the City of New
11 York on an annual basis. If we can educate more and
12 more about the use of 8-1-1-- I know a lot of people
13 know about 911. They know about calling the Mayor
14 and his special hotline. We need to educate the
15 public on 8-1-1 to call before you excavate. We have
16 less than one percent of damages occur when we've got
17 one call, and we're able to get out there and mark
18 out facilities. So we've really targeted a program
19 there with the youth. Again in the schools as well
20 as with the Fire Department.

22 The second thing that we need to do is
23 accelerate the replacement of our leak-prone pipe.
24 Forty-seven percent of our distribution system in New
25 York City is leak-prone pipe. We had a plan that

1 replaced approximately 4,300 miles a year. The good
2 news is, and you heard from the DEP earlier about
3 half of the main that we replaced is done in
4 conjunction the DDC and these coordinated projects.
5 But we're going to be doing much more investment here
6 in the future. We're going to be increasing to a
7 point of about 70 miles per year here over the next
8 five years that will enable us to reduce and
9 eliminate leak-prone pipe from what was about 45
10 years to below 30 years. That is a major undertaking
11 that we believe is a great opportunity, as you heard
12 earlier, to continue to coordinate on these projects.
13 We'll be able to do it in a much more cost-effective
14 manner.
15

16 And then finally, technology and
17 innovation. This is at the heart of what we do at
18 National Grid. We've always been an industry leader
19 with regards to new technology. Working with the
20 American Gas Association and NYSEARCH, we've been
21 able to deploy, and are still looking at new
22 technology around methane detectors, and enhancing
23 leak detection. As a bridge to replacing all of this
24 aging infrastructure, we're looking at new and
25 innovative ways to renew the pipe that we've got so

1
2 that we're able to go after the higher priority leak-
3 prone pipe with pipe lining.

4 We've just completed a technology called
5 CISPA [sp?] with our colleagues at Con Edison where
6 we'll be able to go through a 6x6 excavation, and
7 renew the large diameter cast iron joints. It's
8 working very successfully in our New England
9 operation, as well as in our U.K. operation. It's
10 been tested and proven by Cornell University to the
11 fact that we'll be able to renew those large diameter
12 pipes for another 50 years, and give us the time that
13 we need to invest the dollars to eliminate the
14 infrastructure as we go.

15 Another great example of how we're using
16 technology is we worked with the New York City DEP on
17 a project called the Newtown Creek. It's the first
18 project in the United States that will directly
19 inject renewable biogas that's currently being flared
20 to the atmosphere with technology to inject into our
21 gas distribution system from that wastewater
22 treatment facility. It should be up in operation in
23 two years. It's going to turn 600 to 800 cubic feet
24 of biogas, million cubic feet of biogas that
25 currently is flared into our distribution system with

1
2 enough volume to heat 2,500 residential homes on an
3 annual basis.

4 Also, another benefit is it's going to
5 reduce CO2 emissions to the equivalent of removing
6 3,000 cars off of the streets. So again, a lot going
7 around us trying to work together, deploy new
8 technology. We know this infrastructure replacement
9 is going to take a lot of time and money. So we need
10 to get more creative, and those are just a few
11 examples. National Grid is one of the largest gas
12 utilities in the United States, and we take great
13 pride in the fact that we leading around technology
14 deployment in the field, and we take that very
15 seriously.

16 I want to thank you all for this
17 opportunity to address the committee, and I'll answer
18 any questions at this time.

19 CHAIRPERSON GARODNICK: Thank you very
20 much, and we appreciate your testimony and your
21 presence here today. We're going to start with our
22 Chairman of the Consumer Affairs Committee Rafael
23 Espinal

24 CO-CHAIRPERSON ESPINAL: Thank you, Chair
25 Garodnick, and thank you for your testimony. I think

1
2 my first question is how old on average are the pipes
3 that you changed?

4 ED FOPPIANO: For the gas system at Con
5 Ed the average age is 55 years.

6 CO-CHAIRPERSON ESPINAL: 55 years? Do
7 you believe that the primary cause of gas leaks
8 happen to be because of the age of these pipes, or is
9 there another reason?

10 ED FOPPIANO: Yeah. No, it's not the
11 age. Age is just one factor. Old doesn't
12 necessarily mean bad for gas piping. For example, I
13 mentioned that we replaced 65 miles of pipe. We
14 actually have a program that helps us to that. It's
15 a relative risk model, and a relative risk model uses
16 a whole bunch of factors. So age is one, but things
17 like diameter, pipe material, soil conditions.
18 There's a number of factors that go into it. So, for
19 example, say cast iron. Small diameter cast iron
20 would have a very high priority because it's
21 relatively brittle, and the smaller the diameter, the
22 less beam strength they call it that cause it to
23 break. So that would have a very high priority. So
24 age is just one factor. There are a lot of other
25 things that go into it like material and diameter.

1
2 CO-CHAIRPERSON ESPINAL: So how do you
3 determine what part of the city you want to target
4 when you're changing these pipes?

5 ED FOPPIANO: So actually we have -- Our
6 system is broken down into segments, and there's
7 actually literally hundreds of thousands of segments.
8 Because a segment would be any time you have a
9 diameter change, a material change, the segment in
10 this model would actually take all-- the entire
11 system including actually in Westchester. And we
12 would prioritize it based on relative risk. So it's
13 regardless of community or whatever, it's really
14 based on the pipe conditions, and that's what
15 determines what pipe would be replaced next.

16 ROBERT DEMARINIS: Now, I see and just
17 one point because it's very similar at National Grid,
18 but one other thing that we do is we do try to
19 leverage the ability to go out into those streets
20 once. So we have a good look at the DDC of the five-
21 year plan for infrastructure replacement in the city.
22 So we will prioritize somewhat because we've got some
23 flexibility in order to coordinate that work going
24 forward.

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2

ED FOPPIANO: Just one other comment.

3

We're actually doing the same in trying to do the

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same in trying to improve upon that right now working

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with Jim Roberts who was here trying to coordinate.

6

So if the city is doing sewer work or water work, we

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want to go in there with them, and hopefully do this

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in a fashion that we could reduce costs, share costs

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for excavations, possibly join with them and that

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would really help a win-win for all.

11

CO-CHAIRPERSON ESPINAL: I know you

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mentioned earlier that it takes time and money to

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replace these pipe, or patch these pipes. They're

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almost \$2,000 per foot. What do you guys do you

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represent? Break it down. What's the cost of labor

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and the materials and the service disruptions?

17

ROBERT DEMARINIS: From the National Grid

18

perspective you'd be surprised. The restoration

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could be in excess of 50% of the work. That's why

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we're so diligent in trying to coordinate work. You

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know, you heard from Jim earlier. We do a great job

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on planned work but this initiative is really going

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to take us to the next level on reactive work, both

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Con Edison and National Grid as well as the DEP you

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heard do reactive work that they've got to go out and

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2 do. If we can start to coordinate that better that
3 will significantly reduce costs going forward.

4 CO-CHAIRPERSON ESPINAL: I know in the
5 past and you currently have the machines to test the
6 stray voltage, and now you're expanding it to test
7 for leaking gas. Why do you feel that now is the
8 time to expand now? Why weren't we doing this in the
9 past when we had stray voltage? [sic]

10 ED FOPPIANO: We really started this and
11 looked into it after this East Harlem tragedy. And
12 we're looking at all different options, and this was
13 an idea that we had that we said this could be a way
14 to increase the amount of leak surveys that we do,
15 and also do it in a cost-effective manner because
16 we're going out doing the stray voltage. This would
17 be a good addition. We're also looking at other
18 technology. There's a new type of leak detection
19 device that we are actually going to be demonstrating
20 in the month of July that if it works the way it's
21 supposed to, you could survey the mains, the gas
22 mains that are out in the street and the services
23 that go from the street into the buildings all at one
24 time. So we're going to look at that. So we're
25 really looking at all opportunities on how we can

1
2 improve leak detection, and the overall safety for
3 our customers.

4 CO-CHAIRPERSON ESPINAL: So how much does
5 it cost an average consumer when a gas service pipe
6 leaks?

7 ED FOPPIANO: I'm sorry. Can you repeat?

8 CO-CHAIRPERSON ESPINAL: If you translate
9 the cost of the replacement of the gas pipe after it
10 leaks, how does that translate to someone's bill?

11 ED FOPPIANO: I don't think I have it.
12 Like say -- say right now. We have about \$500
13 million, but I mentioned \$250, about \$500 million
14 capital is in our rate case right now, in our rate
15 structure, and our increase in, it was -- I think it
16 was about 3%. Yeah, I forget the number in our last
17 rate case what the bills actually increased by, but
18 I can get back to you with that information.

19 CO-CHAIRPERSON ESPINAL: I just think
20 it's important to find ways to do these repairs, and
21 I find capital dollars with having to hit our
22 consumers. You know, I think earlier this year, they
23 were sticker shocked by the amount the rates have
24 gone up between electricity and gas bills, and we
25 want to stop that from happening in the future.

1
2 ROBERT DEMARINIS: Well, you know, just
3 something to answer that, if I may, from National
4 Grid's perspective. In our rate case all that \$1.4
5 billion and I -- what I spoke to in the next couple
6 of years, that is covered by rates right now. It's a
7 unique time in the gas business because of the gas
8 pricing being so favorable right now, and it's stable
9 into the future. So we're able to make these
10 investments with having minimal impact on the
11 customer's bills, which is really what we're
12 utilizing to enable this work that has to be done.

13 CO-CHAIRPERSON ESPINAL: Thank you. You
14 know, as consumers we're always trying to find ways
15 to cut our costs. And we cut our costs, and a year
16 later our bills go up to-- I guess make up for those
17 costs we cut. So, you know, it would be great to see
18 a way where we can start lowering the impact we have
19 on the consumers.

20 CHAIRPERSON GARODNICK: Thank you, Chair
21 Espinal. Let me jump in with a few -- with a few
22 question here. First, I want to focus on the gas
23 question, and the safety of the system. We all
24 obviously are eagerly awaiting the results of the
25 NTS, the investigation as to what happened on 116th

1 Street. But I took note of your testimony that you
2 get 33,000 calls a year reporting gas odors. Forty
3 percent of them are not leaks, but 60% of them are.
4 So there's about 20,000 calls a year to Con Edison
5 alone of reported and actual gas leaks out there.
6 How should New Yorkers take that news to know that
7 there are 20,000 validated gas leaks a year, and how
8 dangerous is that?
9

10 ED FOPPIANO: So, let me start off by
11 answering that question by out of that-- out of the
12 60% that we described, about two-thirds of all leaks
13 are inside customers' facilities on customer piping.
14 And about one-third are outside either in the mains
15 or in the services that are outside in the streets
16 and under the sidewalks. So, when we respond to the
17 two-thirds, the customer locations, we make them safe
18 on the first visit one way or another. We either can
19 do a repair, or sometimes it's not a leak at all, but
20 40% of those are not leaks as well, or, we'll shut
21 off the service to the building. And if we find a
22 leak on customer piping, then the customer will have
23 to make that repair. So those are made safe. Again,
24 very important for the customers to call us because
25 that's the most important step is call -- call 911.

1
2 Call us. We'll get there, and we can make that
3 repair.

4 The other third that are outside, we --
5 About half of those we find ourselves either with our
6 leak survey equipment or our own company employees.
7 And about half are called in from the public, and we
8 react to those. I mentioned that we get there
9 within-- Our average in 2013 was 22 minutes to
10 respond, and if it is a leak that we deem hazardous,
11 we actually work it continuously until made safe. So
12 we get there within 30 minutes. If it's a hazardous
13 leak, we will work it continuously until made safe.
14 Now that could be a temporary repair. It could be
15 venting because sometimes particularly in Manhattan,
16 it may take several days to make a permanent repairs.
17 But there are all types of requirements to put the
18 street back to good condition, compaction tests and
19 all. But those hazardous leaks we make safe, and we
20 won't leave until we make it safe.

21 CHAIRPERSON GARODNICK: Okay. So I take
22 from what you're saying that -- so if we break down
23 the 33,000 calls, 19,800 of them are actual leaks and
24 about more or less 14,000 are from inside a private
25

1
2 whatever it is. And around 6,000 or so come from
3 outside--

4 ED FOPPIANO: [interposing] Right.

5 CHAIRPERSON GARODNICK: --of which half
6 are detected by Con Edison, and half are detected by
7 somebody else?

8 ED FOPPIANO: [interposing] That's
9 exactly right.

10 CHAIRPERSON GARODNICK: It's 3,000 and
11 3,000. Okay. Any leak is a danger to the public,
12 correct?

13 ED FOPPIANO: Yes. If anybody smells
14 gas, we want you to call because potentially it could
15 be a danger. But when we get there, our -- like I
16 mentioned, if it is a dangerous leak we'll work it
17 continuously until made safe. Some leaks are
18 actually -- we classify them as Type 3, or what they
19 refer to a non-hazardous, and that has to do with
20 distances from buildings or from structures that
21 cause harm. But those we respond to, again, within
22 that--

23 CHAIRPERSON GARODNICK: [interposing] How
24 many of your 6,000 that would have to be in the 6,000
25 because they have to be away from a structure, and

1
2 the 14,000 or so are within a structure? How many of
3 the 6,000 are Type 3 non-hazardous?

4 ED FOPPIANO: Oh, it's probably about-- I
5 don't know the exact number, but it's probably on the
6 order of about three-quarters.

7 CHAIRPERSON GARODNICK: Three-quarters
8 are non-hazardous.

9 ED FOPPIANO: Right.

10 CHAIRPERSON GARODNICK: Okay. So, we'll
11 it 4,500 of the 6,000 are non-hazardous, and about
12 1,500 are actually hazardous. So we have 1,500
13 outside leaks [bell] that are deemed to be hazardous.
14 Are all of the inside leaks also because of where
15 they are deemed to be hazardous just by virtue of
16 being indoors?

17 ED FOPPIANO: I would say yes. And
18 again, those we make safe one way or another upon our
19 arrival.

20 CHAIRPERSON GARODNICK: How much of a
21 leak do you need to have to cause an explosion that
22 would bring down a building?

23 ED FOPPIANO: So the explosive range of
24 gas is 5 to 15%, and if you're within that-- and
25 that's percent of gas in air. And anywhere within

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that range you just need a spark, and you could have an explosion. Below that range, it's too lean. Above that range, it's too rich. But in that range, gas is explosive, and that's again why it's important for the public if you smell gas we want those calls, and we want to react to that. And we will react to every one of those calls and respond. Because it's very important for us to get there, and hopefully make the condition safe.

CHAIRPERSON GARODNICK: How else could there be a concentration of gas in the air more than 5 to 15% that would cause a spark that would be significant enough to cause an explosion other than a leak? Is there any other way? I don't -- I can think of any, but I don't know if there is one.

ED FOPPIANO: No, I can't either. No. I mean there's -- besides natural gas, there could be methane, and that can also be explosive from sewer gas. It may not be natural gas, but if there's methane, which is the major component in natural gas. But it could come from a gas pipe, or it could come from like I mentioned a sewer. It would also be an areas that you can get methane gas.

1
2 CHAIRPERSON GARODNICK: Okay, are you
3 aware of the report that the Mayor's Underground
4 Working Group issued today on the subject of who
5 should be responding where there's a smell of gas?

6 ED FOPPIANO: Yeah, I actually just saw
7 it. I didn't really read the whole thing, but I just
8 saw it right before I came in.

9 CHAIRPERSON GARODNICK: We haven't seen
10 it yet either I should note. But it's our
11 understanding that it says that the Fire Department
12 should respond contemporaneously with Con Edison or
13 National Grid when there is a report of the smell of
14 gas. Is that a change in the current practice?

15 ED FOPPIANO: It's an increase to the
16 current practice. About five years ago-- We always
17 partner with the Fire Department on certain leaks and
18 certain conditions. But about five years ago, we at
19 Con Ed and National Grid is doing something very
20 similar. We came up with a process called our code -
21 - We refer to it as our Code MURRE Response, and
22 MURRE is M-U-R-R-E. It stands for Multiple Resource
23 Responses Events. So what we do is when leaks come
24 in to our call center, they get classified and
25 there's certain triggers. And also, if we respond in

1 the field on a leak, and there's certain triggers
2 that would initiate a Code MURRE Response, and on
3 each one of those Code MURRE responses we bring in
4 the, you know, we call in the Fire Department to help
5 us. And the reason for doing that is the Fire
6 Department can get there much quicker, with sirens
7 and going through lights and so forth. And there are
8 a lot of different locations with all the firehouses.
9 So they can get there much quicker than we can. So
10 we partner with them, and with that team and that
11 report that you just mentioned I think is Building
12 Line is that we know that the Fire Department can get
13 there before us. If we could take advantage of that,
14 have the Fire Department get there and respond to all
15 gas odors would be the concept. Con Edison, of
16 course, would go as well, but getting there that much
17 quicker can help. Because if there was some type of
18 condition, minutes count. And that's why it's so
19 important for people to call, and to call 911 if
20 there is a problem. [sic]

22 CHAIRPERSON GARODNICK: [interposing] So
23 let me just make sure I understand this. The system
24 today with a certain type of call that comes in, you
25 evoke Code MURRE--

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ED FOPPIANO: [interposing] Right.

CHAIRPERSON GARODNICK: --which brings
the Fire -- which sends the Fire Department ahead of
you, is that true?

ED FOPPIANO: [interposing] Right.

CHAIRPERSON GARODNICK: You'll get there
on average in 22 minutes. They'll get there faster,
but you are the ones who invoke that protocol?

ED FOPPIANO: Yeah, we initiate it, but
it can happen in two different ways. It can happen
either from when the call comes in from the customer,
or it may be upon our arrival. For example, if we
arrive on location, and we test the sewers, and we
find gas in the sewer, that's a potentially dangerous
situation because it can get into many homes. And
you need a lot of boots on the ground quickly. That
would initiate a Code MURRE because instead of a
single responder, or a couple responders, now you
could have a company with probably 20 fire fighters
helping to get into homes quickly to evacuate. So
another example being, Bob a contract for damage. If
we have a contract for damage, and that gets reported
to our call center, that contractor who is working
out there that would initiate it right at the time of

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2 the call. And then, the Fire Department would likely
3 get there well before us. And those are the type of
4 conditions where working with the Fire Department can
5 help. We've been doing that at a high level. I
6 think I mentioned about 4,600 times a year we are out
7 there together with the Fire Department. On these
8 Code MURREs, it's about a thousand a year that turn
9 into what we refer to as a Code MURRE. And we think
10 what the Mayor and all are proposing with having all
11 gas leak response calls go through 911 and sending
12 out the Fire Department could definitely help the
13 city.

14 CHAIRPERSON GARODNICK: [interposing]
15 But certainly. And now, of course, it sounds like it
16 will give prompter attention to the issue. That's
17 30,000, 33,000 more calls a year that the Fire
18 Department now has to answer to beyond what its
19 obligations are today.

20 ED FOPPIANO: [interposing] Right.

21 CHAIRPERSON GARODNICK: Or maybe 33,000
22 more than what they do today. They get 1,000 Code
23 MURREs from you guys, and that's it? Now they're
24 going to have 33,000 more calls that they're going to
25 respond to. Do you think that that-- You know, this

1 is not really a question for a power company. But do
2 you think that that is too much of a burden on the
3 Fire Department? You know, that seems like a pretty
4 big additional task. I don't even know what the
5 total number of Fire Department runs are that they
6 respond to fires every year. But this seems like --
7 I mean at least in the ballpark of the number. What
8 do we take from that?

10 ED FOPPIANO: So let me answer that in
11 two ways. So, one, the 33,000 is for all Con Edison,
12 which includes Westchester. So about 60% in New York
13 City, and 40% in Westchester. So it's a small
14 number. I don't have -- I can't answer for the Fire
15 Department, but we are working with the Fire
16 Department on this. And I could tell you that they
17 are looking at their capability of doing this for all
18 gas odor calls coming in from New York City for both
19 Con Edison, and for Nat Grid.

20 CHAIRPERSON GARODNICK: Okay, well
21 obviously it's disappointing that none of us were
22 made aware of the recommendations in advance of the
23 hearing today because we would have been able to have
24 a more intelligent conversation. But we certainly
25 will take a look at that, and we'll be following up

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2 with you, and with the Fire Department. And to
3 consider what the implications of this are. I mean,
4 there's no question that the Fire Department can get
5 there faster, and that's important. But it is
6 obviously a lot, whether it's 20,000 more trips for
7 FDNY or 32,000 more trips. That's a very, very big
8 number. Okay, let's just talk about steam for a
9 second. I don't want to neglect steam. It's one of
10 my favorite topics. The remote monitoring devices
11 that you've now installed throughout the distribution
12 system, is -- You now have that at 1,300 locations.

13 MELOVAN BLAIR: 1,300.

14 CHAIRPERSON GARODNICK: Were most of
15 those put in after the -- 2010. What was the date of
16 the --?

17 MELOVAN BLAIR: [interposing] 2007.

18 CHAIRPERSON GARODNICK: 2007 steam --

19 MELOVAN BLAIR: Yes, the remote
20 monitoring was out there.

21 CHAIRPERSON GARODNICK: Okay, and is that
22 the proper number for you all, or do you aspire to be
23 at 1,500 or 2,000?

24 MELOVAN BLAIR: So at this point, as you
25 indicated, we are monitoring 1,300 locations. We're

1
2 going to do another 125 this year, and then the
3 remaining will probably bring it up to about 1,500
4 approximately.

5 CHAIRPERSON GARODNICK: 1,500 is the
6 ultimate number?

7 MELOVAN BLAIR: Approximately.

8 CHAIRPERSON GARODNICK: Okay.

9 MELOVAN BLAIR: And other locations, if
10 we think is required. [sic]

11 CHAIRPERSON GARODNICK: And you are able
12 today monitor the functionality of all of your steam
13 traps?

14 MELOVAN BLAIR: No, at this point, we
15 have 850 steam traps. Six hundred and seventy of
16 those we can monitor remotely. The 125 that I
17 mentioned, those are steam trips that we're going to
18 do this year, and then the remaining steam traps
19 we'll do -- the remaining number, which is about 55,
20 I would think we're doing next year.

21 CHAIRPERSON GARODNICK: So you will have
22 a monitor, a remote monitor --

23 MELOVAN BLAIR: [interposing] Monitoring
24 of steam.

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2 CHAIRPERSON GARODNICK: --for all of your
3 steam traps by the end of the next year?

4 MELOVAN BLAIR: That's correct.

5 CHAIRPERSON GARODNICK: Okay. It has
6 been the protocol of Con Edison to respond with crews
7 during a heavy rain to particularly sensitive
8 locations where water tends to sit, and cool your
9 pipes. Is that still the protocol for Con Edison?
10 Has the number of locations changed in any way, or
11 what's happening with that?

12 MELOVAN BLAIR: Yes, so right now we have
13 about 29 locations.

14 CHAIRPERSON GARODNICK: [interposing]
15 Twenty-nine, you said?

16 MELOVAN BLAIR: Twenty-nine locations
17 that we call have Priority 1. If we get three-
18 quarter inch of rain of over a three-hour period, we
19 will mobilize. We'll actually pull those areas. We
20 also have, you know, monitor levels there as well.
21 So we will pull if we see that-- We will respond if
22 we see three-quarter inches of rain in a three-hour
23 period.

24 CHAIRPERSON GARODNICK: So, that's
25 incredible. I mean steam, as we have come to learn,

1
2 is a very delicate sort of beast, and it's amazing,
3 though, that three-quarters of an inch of rain would
4 prompt the need for 29 crews to go pump water. But I
5 understand the danger of that, and we've seen the
6 danger of that. Of course, the explosion back in
7 2007 was right after a very, very heavy rain. When
8 you go to patch the pipes, if you have a leak that is
9 more than just a non-dangerous leak. But if you're
10 actually patching the real serious leak of a steam
11 pipe, what are you using to patch that? Back in
12 2007, we were talking about a particular Epoxy glue,
13 as I remember. Are you using the same materials?
14 How have you advanced the patch work of old steam
15 pipes since that time?

16 MELOVAN BLAIR: So, we're not using the
17 same Epoxy to remediate the leak. I find the water
18 material that we do use, but in a case where we call
19 it a Priority 1, what we will do is we'll actually do
20 a shut off to make sure not that we're doing a
21 temporary repair, but we're going to do a full
22 repair. So instead of patching, we're not going to
23 patch. If we decide it's a Priority 1, we could then
24 fix it permanently.

25

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2 CHAIRPERSON GARODNICK: In terms of the
3 age of the pipes, and forgive me if Chair Espinal
4 elicited the specific to this question, but do you
5 know precisely, and this is a question for both Con
6 Edison, and for National Grid on the subject of both
7 gas and steam. Do you know, precisely where your
8 oldest pipes are in the system. You could actually
9 lay it out on a map and say, There it is. Council
10 Committee, here is where we've got our highest
11 concentration of old, and recognizing that old is not
12 the only factor. You have to have the age of the
13 pipes and are able to identify them?

14 MELOVAN BLAIR: Yes, we do from a census.
15 [sic]

16 ED FOPPIANO: You know, we do for all of
17 them.

18 CHAIRPERSON GARODNICK: Both National
19 Grid and Con Ed for that.

20 ED FOPPIANO: It's on our maps and we
21 have all that information.

22 CHAIRPERSON GARODNICK: Okay, and how
23 about the width of the pipe. As you noted before,
24 the diameter is perhaps a bigger concern when talking
25 about gas. Do you know both the age and the width

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ED FOPPIANO: Yes, we do.

3

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ROBERT DEMARINIS: It's called diameter,
the diameter.

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CHAIRPERSON GARODNICK: The diameter.
Thank you. Okay.

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CO-CHAIRPERSON RICHARDS: I have a
question.

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CHAIRPERSON GARODNICK: Council Member
Richards.

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CO-CHAIRPERSON RICHARDS: Before I begin,
I just wanted to second what Council Member Garodnick
voiced in terms of the FDNY. I am very concerned
about the staffing levels obviously at the FDNY, and
if they would be able to obviously handle this
particular capacity. So I just wanted to second
that. I wanted to ask, and this is a question for
both National Grid and Con Edison. So in terms of
gas leak complaints, do you guys have a plan to
increase your staffing levels to help obviously
supplement what the FDNY is going to do as well? Is
there any plan to do that, to respond to gas leaks?

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ROBERT DEMARINIS: I mean despite the
change in the policy that's something that we do on
an annual basis anyway.

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2 CO-CHAIRPERSON RICHARDS: Speak to some
3 more specific terms.

4 ROBERT DEMARINIS: Well, we actually have
5 emergency response performance targets with the
6 public commissioner, and if we don't meet them we're
7 penalized.

8 CO-CHAIRPERSON RICHARDS: Okay.

9 ROBERT DEMARINIS: So it's something that
10 we're constantly monitoring to make sure that we've
11 got the right amount of crews, and the right
12 locations to respond.

13 CO-CHAIRPERSON RICHARDS: And how long
14 does National Grid take to respond? Because 22
15 minutes seems like a very long time to me. I know
16 Con Ed mentioned 22 minutes to respond to a gas leak,
17 I believe. How long to you guys take?

18 ROBERT DEMARINIS: It varies. I mean but
19 the average is close to that number.

20 CO-CHAIRPERSON RICHARDS: Okay. So can
21 you take me through -- do you guys have particular
22 staffing in each borough or does it work if someone
23 calls in a gas leak? Do you have locations in each
24 borough where they would be dispatched from?

1
2 ROBERT DEMARINIS: Yes, and we were
3 constantly monitoring that.

4 CO-CHAIRPERSON RICHARDS: And how much?
5 Can you speak to each borough? How much would each
6 borough have?

7 ROBERT DEMARINIS: You mean a specific
8 number of employees?

9 CO-CHAIRPERSON RICHARDS: Yes.

10 ROBERT DEMARINIS: I don't have that
11 specific number.

12 CO-CHAIRPERSON RICHARDS: If you could
13 get that back to the committee.

14 ROBERT DEMARINIS: For just emergency
15 response?

16 CO-CHAIRPERSON RICHARDS: So if someone
17 calls in, and obviously there's a gas leak, we want
18 to know how much staff is dedicated for those
19 particular issues?

20 ED FOPPIANO: We can get back to you as
21 well on that, but we do -- calls actually come into a
22 common location. We have what we call Gas Emergency
23 Response Center. We have people located in different
24 regions. They can actually track locations of the
25 vehicle. We have equipment that can do that so we

1 know where they are. And then when we get a call, we
2 dispatch the crew that is closest that can get there
3 quickest. And Nat Grid does the same, and we do have
4 coverage 24 x 7. We actually if we need to, what we
5 do is we can supplement our weekly response folks
6 with contractors as well that can do this work for
7 us. We utilize them during -- we utilize them
8 during a strike or whatever. So we have other
9 opportunities for resources, but I can get back to
10 you on those numbers.

12 CO-CHAIRPERSON RICHARDS: So you would
13 say that you have adequate -- would you guys both say
14 that you have adequate staffing levels to respond to
15 these particular issues?

16 ED FOPPIANO: Yes.

17 CO-CHAIRPERSON RICHARDS: Con Edison,
18 you're saying you have adequate staffing as well?

19 ED FOPPIANO: Yes, yes.

20 CO-CHAIRPERSON RICHARDS: No need for any
21 increase you're saying?

22 ED FOPPIANO: We always evaluate that,
23 but if we need -- And as Bob mentioned, we have goals
24 that we try to meet as far as response times. So we
25 would adjust them and hire as needed to do that.

1
2 CO-CHAIRPERSON RICHARDS: Okay. You also
3 spoke of coordination with DEP. Would you say that -
4 - and obviously this is a new administration, and
5 we're moving into a newer direction, but would you
6 say that coordination is a plus, or I don't want to
7 say or give a letter grade. But can it better with
8 the city? Can coordination be better with the city?

9 ROBERT DEMARINIS: I can speak from
10 experience. I was Director of Construction in New
11 York City, and worked very closely with the DDC, and
12 yes, we are aligned. We've got very good vision of
13 five-year plans. We relocate, if necessary. Con
14 Edison does the same to try and do what's right for
15 that particular street. But I think, and I did
16 mention this, where we can improve coordination is on
17 the reactive work. Other than the plan's major
18 restructuring, some of that reactive work and the
19 additional DEP funding that you just heard of. So
20 we'll build on that collaboration, and that
21 relationship that we've got right now with that
22 additional funding. Again, to replace more
23 infrastructure in a cooperative manner, and it's
24 basically the same answer for Con Ed.

25 CO-CHAIRPERSON RICHARDS: Oh, okay.

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ROBERT DEMARINIS: Very Similar.

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CO-CHAIRPERSON RICHARDS: So you're going to have better coordination with DEP? You foresee that happening?

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ROBERT DEMARINIS: Right, and we've been working very closely with Jim Roberts right now on work that's coming up and trying to coordinate. And again, we've been looking at possibilities of joint bidding. Which I think would be a positive step for all involved.

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CO-CHAIRPERSON RICHARDS: So once a year, and I believe this is in your testimony, Con Edison, 4,300 miles of gas mains are serviced at least once every three years. So can you speak to that, and are there any plans to service lines more than once every three years. Because obviously you don't want to see what happened obviously in East Harlem, and no one woke up that morning happy to see that. But we need to make sure that we have really improved preventative things in place and ensure that it doesn't happen. So it seems to me that to service lines every -- once every three years, would you say that's adequate or does that need to happen more.

1
2 And National Grid, you can pitch in here, too, on
3 this.

4 ED FOPPIANO: So that's exactly why we're
5 doing this pilot of combining stray voltage and our
6 gas leak detection equipment in order to get more
7 surveys per year. And again, you're welcome to take
8 a look at the vehicle at the end of this. But that's
9 the idea. We want to do more surveys per year.

10 CO-CHAIRPERSON RICHARDS: Okay.

11 ROBERT DEMARINIS: It is a code
12 requirement to do that walking survey every three
13 years. But in this particular winter, just for
14 example, we decided that we were going to go above
15 and beyond the code. And we actually implemented a
16 winter patrol for frost conditions above and beyond
17 what the code actually says you're required to do
18 during those conditions. So we continuously monitor
19 all of our cast iron infrastructure on a daily basis
20 every 15 days.

21 CO-CHAIRPERSON RICHARDS: So you're
22 saying all of your--?

23 ROBERT DEMARINIS: The entire cast iron
24 infrastructure. We implemented prior to going into
25 this winter a patrol in a quantity that would get

1
2 through the entire system every 15 days. And that's
3 something that we're now studying what did we learn
4 from that. We're sharing it with AGA, Northeast Gas,
5 our colleagues at Con Edison to see whether or not
6 that was a prudent decision.

7 CO-CHAIRPERSON RICHARDS: All right, so
8 the last question is so DEP has this leak detection
9 system they have with their water, and I was
10 wondering if you guys were pursuing or looking at
11 some sort of similar technology that you would be
12 able to put in buildings perhaps. Or if there is a
13 gas leak, there would be some system that alerts.
14 You know, obviously it goes back to your base, but
15 perhaps alerts the building owner or homeowner that
16 there is a leak. And is that something you guys are
17 looking at outside of the voltage? You know, the
18 things that you guys are looking to do the patrols?
19 Are you looking at systems to test that?

20 ED FOPPIANO: Yes, so both Nat Grid and
21 Con Ed we're part of a collaborative R&D, research
22 and development collaborative. We're doing work with
23 them on a residential methane detector. There are
24 residential methane detectors that are out there that
25 you could buy today at Lowe's and Home Depot. We're

1
2 working on a newer technology that would even be
3 improved. And we're also looking at what we can do
4 with the residential methane protectors that are out
5 there today maybe have more industry advocate for the
6 use of those residential methane detectors.

7 CO-CHAIRPERSON RICHARDS: And it won't
8 cost the rate payers anything, I hope?

9 ED FOPPIANO: No, actually this would be
10 for customers to install?.

11 CO-CHAIRPERSON RICHARDS: So the same
12 thing with--

13 ED FOPPIANO: [interposing] And they're
14 relatively-- They're like a \$65 device that you
15 could buy today in Home Depot.

16 CO-CHAIRPERSON RICHARDS: But the
17 customer would have to pay for it, right? So can you
18 speak of you guys? Is there some sort of rebate or
19 is there, you know, is there some sort of incentive
20 for customers if they do install this?

21 ED FOPPIANO: That's something that we
22 need to look into.

23 CO-CHAIRPERSON RICHARDS: I would applaud
24 you if you did that. I think that it would be an
25 incentive to really get people to utilize this

1
2 system. And I know DEP is doing at no cost for
3 residents across New York City. So I would hope that
4 there is some sort of incentive. Maybe you're
5 taking, I don't know, \$20 off their monthly bill to
6 make sure that this is something that we have. It's
7 going to cost you more in the long run anyway if
8 there's an explosion.

9 ROBERT DEMARINIS: That's a valid point,
10 and it's something that we always look at. We're
11 actually working very hard with research and
12 development at our expense on behalf of our
13 customers.

14 CO-CHAIRPERSON RICHARDS: Thank you, Mr.
15 Chairman.

16 CHAIRPERSON GARODNICK: Thank you, Chair
17 Richard, and before we release you guys, I realize
18 that I have one follow up on the subject of the Fire
19 Department, which was the geographic location of your
20 reported leaks. We have the specific number for Con
21 Ed. I don't know if we actually have the specific
22 number for National Grid in terms of the number of
23 leak reports that you all get every year.

24 ROBERT DEMARINIS: When you say
25 'reports,' the repairs that we make?

1
2 CHAIRPERSON GARODNICK: Well, the stat,
3 which we were toying with at Con Edison was the
4 question of how many calls do you get about leaks.
5 They said 33,000. Sixty percent of them were
6 actually leaks. Forty percent of them were not. A
7 certain percentage of them were inside. A certain
8 percentage were outside. What's the total number of
9 calls that you get related--

10 ROBERT DEMARINIS: [interposing] It's
11 approximately 40,000 a year.

12 CHAIRPERSON GARODNICK: You get 40,000 a
13 year?

14 ROBERT DEMARINIS: And about -- our
15 numbers are running a little bit lower. It's about
16 45% of them are actually gas leaks.

17 CHAIRPERSON GARODNICK: Okay, that's a
18 big number. Okay, so then this question becomes even
19 more important then, which is the geographic location
20 of where these leaks are happening, do you have a map
21 which shows where your leaks-- Your leak reports,
22 your actual leaks, not just the reports, but the
23 actual leaks. Although if the Fire Department is
24 going to be involved in this, the leak report also
25 becomes an important question. Do you have something

1
2 that could illustrate to us where those calls are
3 coming in, and where the leaks are actually
4 happening?

5 ROBERT DEMARINIS: We know where all our
6 -- We do know where all the leaks are, yes.

7 CHAIRPERSON GARODNICK: Can you share
8 that with us? Do you have that information in a
9 format, which shows where in New York City the calls
10 are coming in, and overlay that with where the actual
11 leaks are.

12 ED FOPPIANO: So that's something that
13 we're working on right now. Right now that
14 information is not available to the public. It's
15 something that we're looking into, or we're working
16 on. We're going to be meeting with city officials
17 and the Public Service Commission on that. But we're
18 actually putting something together right now on, you
19 know, a pilot.

20 CHAIRPERSON GARODNICK: A pilot?

21 ED FOPPIANO: Well, maybe pilot is the
22 wrong word, but we're looking at it right now. And
23 again, we're going to be -- We're doing that with
24 the City, the emergency officials, and with the
25 Public Service Commissioner.

1
2 CHAIRPERSON GARODNICK: Okay, let me be
3 more direct about it. Will you share with this
4 Committee, the location of your calls reporting
5 leaks, and where leaks are actually found?

6 ED FOPPIANO: I'm sorry. I think that's
7 something we'll have to get back to you on.

8 CHAIRPERSON GARODNICK: National Grid,
9 the same to you?

10 ROBERT DEMARINIS: Well, I mean, yeah,
11 and I have to same answer at this point in time.

12 CHAIRPERSON GARODNICK: What is the issue
13 here about sharing just so -- ?

14 ROBERT DEMARINIS: I can tell you my
15 concern is that we want a customer, a resident any
16 member of the public whenever they smell gas to call
17 us so that we can respond to it, and perhaps in
18 conjunction with the Fire Department in a more
19 prescriptive manner going forward. I'm fearful if
20 somebody thinks because of a graphic that they go
21 online and say, Oh, I don't have to call. There's
22 already a leak there. See, it's on the system. We
23 have to be careful about that, because we need to
24 respond, and we do respond to the same leaks
25 sometimes. You've heard of some of those non-

1
2 hazardous leaks, those Type 3s where by code you only
3 have to monitor those on an annual basis. So we do
4 get some repeat calls on those --

5 CHAIRPERSON GARODNICK: [interposing] I
6 got it, okay.

7 ROBERT DEMARINIS: -- and we do respond
8 to each and every one of them.

9 CHAIRPERSON GARODNICK: For whatever it's
10 worth, I don't share your concern --

11 ROBERT DEMARINIS: [interposing] Okay.

12 CHAIRPERSON GARODNICK: --about the
13 public's ability to discern whether a chart is a
14 historical reference or active leaks going on at that
15 moment that they're looking it up. But most
16 significantly, it is not about the particular address
17 that we are concerned about. I'll speak for myself.
18 But if you're going to -- if we are going to invoke
19 the resources of the Fire Department for every gas
20 leak phone call, it would be important for us to
21 understand which particular fire companies and units
22 would actually be called upon to respond in that
23 situation. And that is what we're interested in.

24 ROBERT DEMARINIS: Okay.

25

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2 CHAIRPERSON GARODNICK: So I'd like you
3 to take that back, but I also would like you to share
4 it with us in a form that we actually can evaluate
5 what impact this will have on the City Fire
6 Department resources, and the cost versus the benefit
7 here. Because it's a -- this is obviously a very
8 important issue, and we want the Fire Department
9 there as quickly as possible in those Code MURRE
10 situations for sure. The question here is whether or
11 not this is the right response, and this has never
12 come to this committee. We've never considered it at
13 all. We're hearing about it today, and almost, you
14 know, we're shadow boxing here. But it's an
15 important question for us knowing that they're now is
16 a recommendation from the Mayor's Office to have the
17 Fire Department respond to every one of these gas
18 leak calls. Any further response on that?

19 ED FOPPIANO: Well, I was just going to
20 say we are working with the Fire Department, and Net
21 Grid and looking into this and we're at early stages.
22 There's a lot of details to work out. And so, once
23 we have those details worked out, we can get back to
24 you with a better answer for your questions.

1
2 ROBERT DEMARINIS: It's no different than
3 our own operation. We need to work with the Fire
4 Department so that they do understand where the call
5 is coming in, where are the leaks. So that they're
6 adequately staffed, and can respond to them.

7 CHAIRPERSON GARODNICK: We appreciate
8 that you want to work with the Fire Department. We
9 want you to work with the Fire Department, too. I
10 think you understand the question that I'm asking.
11 And I hope that you will be able to give us a little
12 more information, so we can evaluate this most recent
13 proposal. So I hope you'll take that back. With
14 that, we thank you very much for your testimony, and
15 we are going to call our next panel, which I believe
16 just constitutes the Center for an Urban Future,
17 which was the author of that great report which I
18 cited in my opening testimony, Adam Furman, I believe
19 the floor is yours. And we thank you for your
20 patience because much of what you had in that report
21 animated a lot of the questions and inquiries that we
22 engaged in today. So we thank you for that. And
23 gentlemen from the power companies, we appreciate you
24 being here today, too. Thank you.

25 [Pause]

1
2 CHAIRPERSON GARODNICK: Mr. Furman, if
3 you're ready? Whenever you're ready, you can get--

4 [Pause]

5 ADAM FORMAN: Chairman Garodnick,
6 Chairman Richards, and Chairman Espinal, and Members
7 of the Joint Committee, thank you for inviting me to
8 testify. My name is Adam Forman. I am the Research
9 and Communications Associate at the Center for an
10 Urban Future. The Center is a research institute
11 devoting to growing diversifying the New York City
12 economic, expanding economic opportunity, and
13 alleviating obstacles facing low-income working class
14 neighborhoods. We recently published a comprehensive
15 report highlighting the challenges New York City
16 faces with its aging infrastructure. Title, Caution
17 Ahead, our report identified numerous vulnerabilities
18 like in the City's utility and transportation
19 infrastructure and building stock.

20 That report was released one day before
21 the tragic March 12th explosion in East Harlem. The
22 report's findings were not surprising. New York
23 City's infrastructure is old. Over 170 school
24 buildings and 165 bridges were constructed over a
25 century ago. The city's public hospital buildings

1
2 are 57 years old on average, and 531 public housing
3 towers were built prior to 1950. Gas, steam, water
4 and sewage lines unfortunately are no exception. The
5 city's 6,800 miles of water mains are 69 years old on
6 average. Over two-thirds are made of unlined cast
7 iron or cement lined cast iron. Materials susceptible
8 to internal corrosion and prone to leak, 51% are
9 narrower and 12 inches.

10 And according to the Army Corps of
11 Engineers, more likely to break than wider pipes. To
12 expedite the replacement of old and narrow water
13 main, Bloomberg's PlaNYC Report promised to replace
14 an impressive 80 miles of mains per year. Since
15 then, it has replaced only 27 miles per year. The
16 City's failure to achieve this replacement rate is
17 regrettable. Neglecting this aging infrastructure
18 will increase the frequency of water main breaks and
19 leaks leading to corrosion of surrounding utility
20 pipes disrupting automobile, pedestrian and public
21 transportation, and stymieing [sic] local economic
22 activity.

23 In 2013 for instance, there were 430
24 water main breaks across the city including that
25 disrupted East House [sic] on Ludlow Street including

1
2 the iconic Castelli, but earlier there was one on
3 13th Street as well. Leaking and ruptured mains are
4 responsible for a significant amount of waste.

5 Citywide the unaccountable for water rate -- The
6 difference between the amount of water that enters
7 the distribution mains and the amount that reaches
8 customers is a staggering 24%, double the 10 to 15
9 industry standard. Conditions are especially bad in
10 the Bronx, Brooklyn and Manhattan. There was
11 question about what that unaccounted for water rate
12 means. If you'd like, I can follow up on that.

13 The average age of New York City's 6,400
14 miles of sewage mains is approximately 84 years.
15 Nearly 4,000 miles of sewer pipe are made of vitreous
16 clay. These older earthenware pipes are more
17 susceptible to cracking, leakage, and groundwater
18 infiltration. Since the Turn of the Century, the
19 number of sewer lines constructed or reconstructed
20 has fallen. From 2000 to 2006, DEP installed an
21 average of 42 miles of sewers per year. From 2007 to
22 2013, this fell to 17 miles per year. Like many
23 older cities, New York City has a combined sewer
24 system. During rainfall, excess flow is diverted to
25 a non-sewage overflow. There is about 27 billion

1 gallons of raw sewage that includes storm water going
2 into New York Harbor every year as a consequence.

3
4 To address this problem, DEP has launched
5 an aggressive lean infrastructure campaign making the
6 City more permeable to absorb rainwater before it
7 enters the sewer system. The City plans to commit
8 \$2.4 billion in private investment over the next 18
9 years to increase these efforts. Green
10 infrastructure is a tremendous asset to the city. It
11 simultaneously beautifies New York's neighborhoods
12 while alleviating severe gaps in storm water
13 management system. However, a city should -- city
14 officials should consider investing in more
15 traditional mitigation efforts as well if they intend
16 to dramatically reduce CSO discharges.

17 An underground retention facility near
18 Paerdegat Basin. For instance, decrease CSO
19 discharges by 1.3 billion gallons. Excuse me. Yeah,
20 1.3 billion gallons per year. In comparison, the
21 City's 2,500 green street sites capture 105 million
22 gallons annually, and its 100 bioswales retain 18,070
23 gallons apiece. The City would need to install
24 700,000 bioswales to capture the equivalent rainwater
25 of the Paerdegat facility.

1
2 Moving on to gas, Con Edison and National
3 Grid each manage one of the oldest distribution
4 networks in the country. Con Edison's 2,200 miles of
5 gas mains serve 833,000 customers. Their mains are
6 53 years old on average, and 22% of their gas
7 services carrying gas from mains to individual
8 buildings were installed prior to 1960. In 2012,
9 their distribution system experienced 3,300 leaks.
10 National Grid serves approximately 1.2 million
11 customers via 4,128 miles of gas main. The average
12 age is 57 years old, and 7% of their gas services
13 were installed prior to 1960. In 2012, their
14 distribution system experienced approximately 2,500
15 leaks.

16 In 2011, a state of deadly natural gas
17 incidents, the Obama Administration issued a call to
18 action to accelerate the repair, rehabilitation, and
19 replacement of highest risk pipeline infrastructure.
20 Then going out pipelines constructed of cast or raw
21 iron and bare steel. In New York City, 60% of Con
22 Edison's mains and 24% of the services are made of
23 these leak-prone materials. Forty-eight percent of
24 National Grid's main and 5% of its services are made
25 of these materials.

1
2 While gas explosions are mercifully rare
3 in New York City, the environmental consequences of
4 leaking gas pipes are significant. According to Bill
5 McKibben, a prominent environmentalist, methane
6 released from unburned natural gas is 20 to 100 times
7 as potent as green house gas as carbon dioxide. If
8 two to three percent of gas escapes into the
9 atmosphere from the point of extraction to its final
10 destination, natural gas can do more damage to the
11 climate than coal.

12 In New York City, 1.5% of National Grid's
13 gas is unaccounted for, and 2.2% of gas entering Con
14 Ed's mains and servicing pipes did not reach a final
15 customer in 2012. Theft and inaccurate meter
16 readings play a part, but so do leaks from old mains
17 and services. National Grid and Con Edison's line
18 losses compare favorably to peer companies in
19 Philadelphia, which leaked 2.7% and in Boston 4%
20 unaccounted for, but it is still a cause for concern.

21 Today, it is more important than ever to
22 address the City's aging natural gas infrastructure.
23 Natural gas accounts for approximately 65% of New
24 York City's heating needs, and fuels 98% of in-city
25 electricity generation. Gas usage is set to grow

1 significantly in the coming decades in large part due
2 to significantly cheaper prices for natural gas. And
3 the recent citywide ban on No. 4 and No. 6 home
4 heating oil. To accommodate the growing demand
5 across the five boroughs, New York aging gas
6 distribution system will need to be upgraded and
7 expanded. Con Edison and National Grid have actively
8 replaced their aging mains and services, and should
9 accelerate the replacement of cast iron and bare
10 steel services and mains. While the State is
11 responsible for regulating these utilities, the City
12 can assist Con Edison and National Grid's replacement
13 effort by better coordinating its work with the
14 Department of Transportation and the DEP.

15
16 Rehabilitating New York City's aging
17 infrastructure is, of course, an expensive and long-
18 term proposition. Our recent report *Caution Ahead*,
19 estimated that it would cost \$40 billion over the
20 next five years to replace the city and its
21 authority's transportation, utility and building
22 infrastructure to a state of good repair. While this
23 is daunting, the benefits of an expansive public
24 works program are considerable. According to a 2009
25 University of Massachusetts Study over \$1 billion

1
2 invested. Oh, excuse me. Of every \$1 billion
3 invested, in water infrastructure generates 12,000
4 new jobs. \$1 billion invested in roads and bridges,
5 creates nearly 15,000 positions. Importantly, the
6 repair and maintenance of existing infrastructure is
7 bound to generate more jobs than construction.

8 To facilitate infrastructure
9 rehabilitation in the coming years, the City should
10 prioritize state of good repair investment over new
11 projects. It should also encourage the OMB to
12 improve its Asset Information Management System
13 Report, a condition assessment of city-owned
14 buildings, parks, bridges, and piers. The current
15 inspections are cursory, wholly integrated into
16 capital planning process, and do not include water
17 and sewer assets, public housing, East River bridges,
18 or agency vehicles.

19 To improve the water and sewage assets
20 specifically, we recommend two reforms. First, New
21 York City should follow Seattle, Philadelphia, and
22 500 other cities by replacing its sewer charges,
23 currently assessed at 159% of the water rate with a
24 more nuanced storm water management fee. Property
25 owners would be charged according to the percentage

1
2 of rainwater captured on their lot before it enters
3 the City's overburdened sewer system. This would
4 incentivize increased water retention and private
5 property with customers paying a lower fee as they
6 introduced new green elements such as swales, porous
7 pavement, and green roofs and trees. This could be
8 coupled with a credit program repaid each month via
9 utility or property bill to help customers finance
10 the installation of green elements.

11 Second, the City should eliminate the
12 rental payment it charges the New York Water
13 Authority. The fee no longer serves its original
14 intent, and gives the age -- and given the age and
15 condition of New York's water and sewer assets, the
16 City should not be diverting money from these
17 infrastructure systems to its general fund. Thank
18 you for considering my testimony. I look forward to
19 your questions.

20 CHAIRPERSON GARODNICK: Thank you very
21 much and we appreciate your testimony as well as the
22 entire report, which was thoughtfully done, and
23 certainly raises a number of the issues including \$47
24 billion worth of potential investments that the City
25 could be making. Let me just pose a couple of

1
2 questions for you since we have a number of
3 additional panels, which are here to testify. I'm
4 sensitive to the time of day. One, I want to ask
5 about the sewage question, and the combined sewer
6 overflow issue and your proposal that you just
7 described a moment ago. And the other is about the
8 Fire Department and gas.

9 On the first, when I was asking the
10 question of DEP about whether there is a way above
11 ground to actually deal with the combined sewage
12 overflow problem, the answer was no or not in our
13 lifetime, or no it's not practical or something along
14 those lines. My question for you is, if we were to
15 implement changes like giving a credit for people
16 that are limiting their storm water runoff, or
17 changing the Building Codes to require more capture
18 of more water, or whatever it is, do we have the
19 ability to make a dent in that? And if not, what
20 should the City's plan be to be able to address that
21 question to actually solve the problem?

22 ADAM FORMAN: I'm actually surprised. I
23 must have missed that part of the testimony where he
24 said, It's not in our lifetime that we can capture
25 water above ground in order to deal with this

1
2 problem. Because they have invested, as I mentioned
3 in the other testimony. [sic]

4 CHAIRPERSON GARODNICK: Well, let me be
5 clear as to what exactly he said.

6 ADAM FORMAN: Okay.

7 CHAIRPERSON GARODNICK: It was that the
8 problem can't be solved by just capturing water above
9 ground, and that to redo the rest of it is not a
10 practical solution. So just to be clear as to what
11 exactly.

12 ADAM FORMAN: Okay, I mean they are
13 investing \$2 billion in green infrastructure on city
14 public property. And as I mentioned in my report,
15 while that's a fantastic initiative in terms of
16 beautifying the city, it takes a very small
17 percentage in comparison to retention facilities like
18 we have in Peardegat, and other retention facilities
19 in the city. And so I think it's going to have to be
20 that gray infrastructure underneath the ground that
21 really gets at this problem. It's more expensive.
22 It doesn't beautify the city. Constituents don't see
23 it, and it might not be as -- The political catches
24 might not be the same. However, this is where the
25 real major attention is happening in these retention

1
2 facilities underground. However, getting private
3 property and private property owners involved can
4 make a large dent.

5 And I have not run the calculations in
6 order to determine what dent that would be. Right
7 now, new buildings have to retain the first inch of
8 water during rainfall. So that we can actually have
9 more aggressive provisions, Department of Building
10 provisions to make sure that greater retention
11 happens on property. And we think that this storm
12 water management fee is a great way to do that, to
13 incentivize buildings, private building owners to
14 retain water.

15 CHAIRPERSON GARODNICK: Okay, and then
16 let me pose the other question, which we were talking
17 to National Grid in comments a few moments ago. And
18 there you heard that colloquy. What is the right way
19 to respond to these leaks? Do you think that there
20 are more vulnerabilities in the gas system than what
21 were described? And is this the role for the Fire
22 Department to be the first responder to every call
23 here. Give us a sense as to where you think that
24 should change?

1
2 ADAM FORMAN: Given my research
3 background, of course, my first instinct was to look
4 at the numbers. So I looked at the FDNY Report, and
5 saw that matter of 70,000 calls that they respond to.
6 So it's significantly more than the 30,000 by Con Ed
7 and 45,000. But it's still about a 7% increase we
8 could see in fire calls if we have the Fire
9 Department be the first responder. Seven percent is
10 significant. That means a larger budget for the Fire
11 Department. Who pays for that? Actually, Con Edison
12 and National Grid they're reimbursing the Fire
13 Department, and now the Fire Department is making --
14 doing the work that they used to be doing. I think
15 there is definitely room for some type of joint
16 agreement where the utility companies are helping to
17 subsidize fire departments active use.

18 CHAIRPERSON GARODNICK: Okay, I'm going
19 to go to Chair Espinal before we go onto the next
20 panel. So thank you.

21 CO-CHAIRPERSON ESPINAL: Just going back
22 to the last question Chair Garodnick asked, in
23 regards to figuring out where all the gas leaks are
24 actually happening and tracking all those calls and
25 reports. Do you think that if you were able to put a

1
2 map together of where all these leaks are happening,
3 do you think it would be beneficial figuring out
4 where Con Edison and National Grid can target and
5 where it changes pipes? And what its actually put
6 the resources into?

7 ADAM FORMAN: Yeah, absolutely. I think
8 that map is critical for realigning the Fire
9 Department frankly. If we know that it's getting
10 more calls from the Fire Department, it means that
11 the staff of those fire departments in those areas.
12 So having that data is critical for reorganizing the
13 fire department to make sure that they have the
14 staffing necessary and to respond to those increased
15 fire calls connected to gas. And in terms of their
16 own activities. I'm certain that they, as I said,
17 they know the math and I'm sure they're according to
18 where the oldest material is.

19 I was very encouraged by the increase on
20 replacement for cast iron and steel. But in terms of
21 greater transparency, I'm always a supporter. In
22 terms their suggestion that it will lead to less
23 calls if that data was released because they would
24 think it was already taken care of, if anything, I
25 think there might be more calls. Because people will

1
2 now get increasingly paranoid. They see a big patch
3 of leaks in their area, and now every time they smell
4 anything they can be calling, which mean more calls
5 for that fire department. So we need to think of
6 those behavioral issues.

7 CHAIRPERSON GARODNICK: The last question
8 from me. In your report you had noted the statistic
9 of 24% leakage from DEP's water main system, and
10 cited that as twice the national average. DEP
11 testified no, no, that's not accurate. In reality,
12 we're leaking a lot less, maybe 5 to 7%. The rest of
13 that is magical disappearance or whatever it was
14 called.

15 ADAM FORMAN: The Parks Department.

16 CHAIRPERSON GARODNICK: What was it
17 called?

18 ADAM FORMAN: The Parks Department is
19 what he said.

20 CHAIRPERSON GARODNICK: Yeah he said the
21 Parks Department. He called it just-- He had a word
22 for it, but it was something along the lines of we're
23 not billing for it, and therefore, it's an unbilled
24 use of water, not a leak. What's your reaction to
25 that?

1
2 ADAM FORMAN: It's correct. We've quoted
3 unaccounted water rate. That's how we refer to it.
4 It's not leakage. So that doesn't account for fire
5 responses and the water they use and not use at the
6 Parks Department. But the 24% unaccounted for is
7 double than the national average. So that means the
8 leak rate is also double, or on the other hand the
9 leak rate is the same. But for some reason the Parks
10 Department is using four times as much water as the
11 rest -- as their average peer city. So either the
12 leaks are double as well, or we need to be
13 investigating the Fire Department and Parks
14 Department about why they're using so much more water
15 than others use.

16 CHAIRPERSON GARODNICK: Okay, that makes
17 sense.

18 ADAM FORMAN: So it's still an
19 interesting subject to look into.

20 CHAIRPERSON GARODNICK: Thank you. Thank
21 you very much for testimony. Okay, we're now going
22 to call the next panel, and we're going to start up
23 our clock of two minutes. We have Bruce Farina,
24 Eileen Gonzalez and Johnny Stevens. Welcome. Sorry

1
2 folks. I realize we are -- we have a lot of people
3 left to testify.

4 [Pause]

5 CHAIRPERSON GARODNICK: Welcome.

6 BRUCE FERINA: Welcome. Good afternoon.

7 CHAIRPERSON GARODNICK: You can have a
8 seat, if you'd like.

9 BRUCE FARINA: Chairpersons Garodnick,
10 Espinal, Richards, and City Council Members. My name
11 is Bruce Farina, and I'm currently a business agent
12 for Local 1-2. I represent the Con Edison workers
13 who work in gas operations throughout Bronx, Queens,
14 Westchester, and Manhattan. Prior to that in 1973 to
15 2005, I worked in Gas Operations for Con Ed. So
16 right now, I'm not going to read the testimony. I
17 won't have time for that, but I just want to touch on
18 a couple of issues. As I heard today, I heard cast
19 iron mentioned a couple of times from Con Ed and DEP,
20 but nobody has ever mentioned in the 1,800 miles of
21 cast iron gas main in Con Edison, there's a
22 connection every 12 feet. So somebody take out a
23 calculator and figure that one out. Every 12 feet in
24 the 1800 miles of main there's a potential leak.

1
2 CHAIRPERSON GARODNICK: --to be able to
3 extrapolate that.

4 BRUCE FARINA: [interposing] Thank you,
5 and also the fact to maintain the systems we have a
6 lot of contractors now, which again they were around
7 when I was here in 1973. And now they do more soup
8 to nuts, and my question is our workers are qualified
9 and re-certified every three years. Because we come
10 under DOT and the NGA, the Natural Gas Association
11 Recommendations. Contractors they get 18 days of
12 training, and then they're thrown into the field as
13 crew leaders. Where my members take two and a half
14 to three years to become a crew leader to get to that
15 point.

16 CHAIRPERSON GARODNICK: Thank you. Thank
17 you very much. Go right ahead.

18 EILEEN GONZALEZ: Good afternoon. My
19 name is Eileen Gonzalez, a resident at Taft Houses,
20 NYCHA. I'm here today to give my community a voice,
21 as well as for myself. The issues in our community
22 are more than just a gas explosion. My community is
23 very diverse in culture. What was once Italian,
24 Puerto Rican, and Black community has turned into an
25 immigrant community. The immigrants, whether they

1 have papers or not are afraid to participate in
2 political events fearing deportation. I'm not an
3 immigrant. I was born in Harlem, raised in the South
4 Bronx, residing in Harlem at Taft Houses for 24
5 years. I was homeless, a single mother of two young
6 boys at the time. Twenty-four years later I'm still
7 experiencing the abuse of power and neglect of our
8 government.

9
10 I currently don't have a stove that is a
11 gas issue. This month makes a year. I put myself in
12 a position to take a stand. I allowed myself to be
13 arrested. The case was dismissed last month, but I
14 still don't a stove. I have a leak in the bathroom.
15 It turned off the bottom. It doesn't go off. The
16 main line has to be shut off. I've gone to court,
17 I've complained, I've called 311. When are they
18 going to come out and do their jobs? My window, if I
19 lift my window, my window falls on me. Both of them
20 in the living room. So I have about three issues:
21 The leaking and running water. The hot water in the
22 bathroom I can't turn it off. The building needs to
23 turn the main water line off in order to repair it.
24 The washer is stripped. I can't replace. I don't
25 know what to do. I've gone to court. I'm here

1 showing you, Hi, I'm Eileen. Remember me? So I'm
2 expecting results.
3

4 CHAIRPERSON GARODNICK: Thank you. Thank
5 you very much.

6 [Pause]

7 JOHNNY STEVENS: Thank I'm Johnny
8 Stevens, and I represent the New York Consolidated
9 with Survivors and the Community of East Harlem.
10 It's an ad hoc coalition that was formed at March
11 4th, an aftermath of over 47 organizations. Our
12 members have been monitoring the situation for those
13 who were suffering the unlimited loss from the
14 failing infrastructure on March 12th. We thank the
15 Council members and the staff today, and the group
16 for having this hearing as a first step toward
17 preventing further tragedies. I would like to be put
18 on record for our group proposal on the
19 responsibilities of Con Ed and certain government
20 bodies to the public. Since March, we have been
21 speaking with tenants, business owners, and other
22 throughout East Harlem.

23 The following ideas, but not yet been
24 met. What we wanted to do number one is the national
25 -- we propose that the National Transportation Safety

1
2 Board should use its authority to call for a public
3 hearing. What aids the survivors of March 12th
4 explosion is still needed, and what must be done to
5 prevent further disaster and displacement citywide.
6 We feel that since the NTSB is the overall body there
7 that the community, the small businesses, the
8 housing, and the people in Taft Housing like Eileen
9 need to be a part of the part of the investigation.
10 And we're asking them to hold a public hearing within
11 East Harlem. And we're asking the Council here
12 today, all three Council persons and their staff to
13 actually endorse that hearing. The families affected
14 by the blast are still homeless. As you can see from
15 the Daily News article where a critical injured 16-
16 year-old youth actually wrote to President Obama and
17 asked him could he see about some housing, about the
18 immigration question.

19 The community needs to investigate the
20 liability of Con Ed and the disaster. Could this
21 have been prevented? Is Con Ed doing all that it can
22 to make retribution to our barrios. We proposed that
23 with the unemployment so high in our barrios that Con
24 Ed should hire people from the community for
25

1
2 infrastructure repair and service programs, and Con
3 Ed should pay for apprenticeship training.

4 Number three, the Environmental
5 Protection Agency must have a public -- must hold a
6 public event to warn the community of environment
7 danger from 1644 to 1646 Park Avenue. It was built
8 before 1974. So it has less paint and asbestos,
9 which has floated into the air and water affecting
10 thousands residents in CAP [sp?] Housing on James
11 Weldon Housing, and the other areas in the
12 neighborhood.

13 CHAIRPERSON GARODNICK: [interposing] If
14 you could summarize the rest, it would be good.

15 JOHNNY STEVENS: Okay. Based on this, we
16 think that the post -- that the post March 12th,
17 should have a free walk-in clinic there to address
18 these environmental concerns in East Harlem. Only
19 about two more. We ask that the public commission --
20 the Public Service Commission monitors Con Ed
21 investigation for the March 12th explosion. We have
22 already initiated a proposal Con Ed records for
23 payment to the survivors in the aftermath. And I
24 have copies of that, which we sent a certified letter
25

1
2 to Con Ed. And I just passed one of them to the Con
3 Ed reps.

4 In summary, we hope that the Council
5 would endorse our call for an MTS hearing from the
6 community where the disaster happened so that people
7 could be more a part of it and more part of the
8 village. We had a couple of people that had to leave
9 from the Chelsea Housing Coalition, and wanted to
10 make sure they were there. A community group in
11 Chelsea, who works around the Spectra Pipeline, and
12 were very much concerned with what was happening in
13 East Harlem. And we had a survivor, a Ms. Ivy
14 Parker, from the Katrina, a survivor which is a
15 permanent member of our group who is sharing her
16 experience, and that this accident took place.

17 CHAIRPERSON GARODNICK: Okay. I think
18 we're going to have to leave it there, but we thank
19 you for your advocacy, and we thank you for your
20 presence here today.

21 JOHNNY STEVENS: [interposing] Okay.

22 CHAIRPERSON GARODNICK: We know you've
23 been through a lot. So, thank you. Okay, we're
24 going to call our next panel. It will be Bob Ackley,
25 Gas Safety NYC; John Zimmerman, Damascus Citizens for

1
2 Sustainability; Rebecca Smith, also Damascus Citizens
3 for Sustainability. Oh, boy --

4 [background discussion]

5 CHAIRPERSON GARODNICK: So Ruth
6 Hardinger. There you go, Ruth. Thank you. I'm
7 sorry. Hardinger, Hardinger [sp?], also from the
8 Damascus Citizens for Sustainability. We welcome
9 you.

10 [Pause]

11 CHAIRPERSON GARODNICK: I see you have
12 some graphical materials up here.

13 RUTH HARDINGER: Yes, I do. [laughs]

14 CHAIRPERSON GARODNICK: All right. Now
15 are you all together as a group? Okay, so do you
16 want to go --

17 JOHN ZIMMERMAN: Just go down the line.

18 CHAIRPERSON GARODNICK: Okay. All right.
19 So you know the approximate amount of time here that
20 we're dealing with. We'll aggregate them.

21 JOHN ZIMMERMAN: We're going to do our
22 best. Thank you.

23 CHAIRPERSON GARODNICK: Whenever you are
24 ready, go right ahead.

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JOHN ZIMMERMAN: Okay, can you hear me.

Do I need the mic?

CHAIRPERSON GARODNICK: Yeah, we do need
the mic--

JOHN ZIMMERMAN: [interposing] Okay.

CHAIRPERSON GARODNICK: Because we're
doing it both on a webcast and also for future
recording.

JOHN ZIMMERMAN: My time is clicking away
very fast, and I spent a lot of time getting here.
So I'll go right to it. This is the map you're
looking for that will show all the gas leaks. I've
had the technology for a couple of years, and been
using it around the country in Washington, D.C.,
Boston. And I did a little cursory survey in
Manhattan. The red is the path of my vehicle with a
Cavity Ring Down Spectrophotometer . The yellow
lines are the leaks. So I have not done a complete
survey of the city, but we have the technology now to
find all the gas leaks and put them on Google Earth.

The equipment is very expensive. You can
find the leaks with a \$5,000 machine very easily. As
far as the safety goes, you have a lot of pipe out
there, a lot of gas leaks, but there are very few gas

1
2 leaks that are very, very dangerous. The Con Ed guys
3 and National Grid guys addressed the third-party
4 hits, which are about 40%, which you had about 400 in
5 New York City last year according to the Annual
6 Report, which I also have, but we don't have time to
7 put that up.

8 Those leaks that are excavation damage
9 are extremely dangerous. It's a very bad situation.
10 We need the Fire Department there right away. We
11 have a very bad gas leak. The other very dangerous
12 leaks. There were about 275 of them in New York last
13 year. They're called natural forces, and that's a --
14 mainly a cracked cast iron main, which is from frost
15 heaves.

16 Now, you've heard testimony from the grid
17 guys in Con Ed that they instituted a winter patrol
18 survey to make sure everything was safe. And you
19 also heard National Grid say 15 days between swings,
20 and if you looked at the new reports for the Con Ed
21 survey, there was one on February 10th and one on
22 February 28th. Now, they didn't use the term "winter
23 patrol," but they used the term "survey" which would
24 indicate an 18-day swing. When I started doing this
25 type of work 35 years ago in Boston, we did Boston

1 every night. So my suggestion for safety here is
2 that we don't have 15-day swing. We don't have a 18-
3 day swing when we're dealing with small diameter cast
4 iron pipes. We have a one-day swing, and every pipe
5 is tested everyday whenever frost conditions are
6 present. This is extremely important for everybody
7 to be aware of. You know, these guys are talking
8 about calling the leaks in. Why do you have 60,000
9 gas calls? Why? You probably have 6,000 street
10 leaks out there that they deem non-hazardous. Okay.
11 Are you going to cut me.

12
13 CHAIRPERSON GARODNICK: I kind of have
14 to, but we'll let one of your colleagues pick up
15 where you left off.

16 JOHN ZIMMERMAN: Well, you can ask me
17 questions after. How's that?

18 CHAIRPERSON GARODNICK: Okay, well, no
19 promises, but we'll see if I have any. Go ahead.

20 JOHN ZIMMERMAN: Okay, well thanks for
21 that.

22 REBECCA SMITH: My name is Rebecca Smith,
23 and I live in Manhattan, and I'm speaking about my
24 concern for climate change. Natural gas is over 90%
25 methane. The 2013 IPC Report has methane as 86 times

1
2 as potent a greenhouse gas as carbon dioxide. How
3 much does our gas system leak, and what effect does
4 it have on warming the planet? Unfortunately, we do
5 have the accurate information we need to answer that
6 question. Con Ed's numbers are estimates of
7 estimates of estimates. What if you take Con Ed's
8 own number for fugitive methane emissions and
9 calculate how much global warming potential they
10 produce? Con Ed states that in 2013 their lost and
11 unaccounted for gas was 2.8% in New York City. So
12 has Con Ed delivered 300 billion cubic feet per year
13 in total?

14 And Manhattan usage represents 30% of
15 total gas usage. Ninety billion cubic feet of gas
16 was delivered to Manhattan. Therefore, 2013, lost
17 emissions amounting to about 2.5 billion cubic feet
18 per year. Using the equivalency calculator on the
19 EPA website, these emissions are equivalent to
20 1,425,000 metric tons of carbon dioxide, or the
21 annual greenhouse gas emissions from 300,000 cars.
22 300,000 cars. From this perspective to me there are
23 no non-hazardous gas leaks. An independent study
24 organized by Damascus Citizens for Sustainability
25 commissioned Gas Safety, Inc. to make a preliminary

1
2 investigation in methane emissions in the borough of
3 Manhattan in 2012. This study, now awaiting peer
4 review, indicates that the amount of methane coming
5 out of Manhattan is significantly greater than Con Ed
6 estimates.

7 This is information that no one has
8 collected before. These are actual measured data
9 that raises issues that badly need addressing. It is
10 essential, I respectfully suggest, that the Council
11 carefully consider the groundbreaking information
12 contained in this report before it makes any
13 decisions regarding the infrastructure and emissions.
14 Leaks have two aspects. When released to the air,
15 they accumulate to produce global climate change
16 impacts. Those same leaks, if contained, result in
17 deadly explosions. Are we going to allow New York
18 City's infrastructure to be part of global warming?
19 Thank you.

20 [Pause]

21 [background discussion]

22 RUTH HARDINGER: My name -- Oh, go ahead.
23 Do you want to ask a question? I'm Ruth Hardinger.
24 I'm an artist and real estate broker, and I'm a Board
25 Member of Damascus Citizens for Sustainability. I am

1 very concerned about a number of natural gas
2 extraction and use damages, things that are
3 destructive to the environment, water contamination,
4 health impacts, air pollution, and all of this, which
5 is all part of what happens before it gets into
6 infrastructure. I am going to focus on a couple of
7 things that are serious for New York City. One
8 important change in New York gas is the New York City
9 gas sources, which recently opened the Spectra
10 Pipeline, which delivers gas mixes, including
11 Marcellus gas from Pennsylvania.

12
13 It is firmly established that Marcellus
14 formation is highly radioactive, and that solid and
15 liquid waste from the Marcellus drilling are also
16 highly radioactive. The few measurements of
17 radioactivity, primarily radon, moving in gas to New
18 York City are orders of magnitude higher than what
19 New York City has been receiving in gas from Western
20 and Gulf states. Radon decays through several steps
21 to finally become lead at the molecular level. As
22 all the products along the way including Polonium are
23 harmful. This is carcinogen. This is lung cancer.
24 Purchasers, sellers, owners, and tenants of real
25 estate property in New York City are required to sign

1
2 lead paint disclosures -- disclosure forms given by
3 agents and attorney.

4 Now, just imagine how similar
5 requirements regarding radon in your kitchen would
6 be. Is Marcellus gas use creating another source of
7 lead in New York City housing and restaurants? I'm
8 going to skip ahead because of this, and go right to
9 the next really big problem is there are high
10 depletion rates. [bell] Shale gas production decline
11 rates reported by the International Energy Agency,
12 and gas industry's paper and articles and Securities
13 and Exchange Commission filing by natural gas
14 companies all conclude that the production of shale
15 gas is likely to decline by 2020. Okay, six more
16 years.

17 CHAIRPERSON GARODNICK: [interposing]

18 Wait, wait --

19 RUTH HARDINGER: To a point where
20 reliance of shale gas.

21 CO-CHAIRPERSON ESPINAL: We need to go
22 into questions.

23 RUTH HARDINGER: Sorry.

24 CO-CHAIRPERSON ESPINAL:
25

1
2 CHAIRPERSON GARODNICK: You need to cut
3 it and go into questions.

4 RUTH HARDINGER: Okay, but it's really
5 we're running out of gas, guys. That's the point,
6 and we're not going to have more than maybe six, ten
7 years of gas. It's getting depleted in the Barnett
8 Shale. It's the Eagle Ford. This is a really
9 serious problem. Here we are spending tons of money
10 to do gas conversions in Manhattan to continue to
11 make more pipeline to spend tons of money on
12 infrastructure development of more gas. What are we
13 doing? This is not making any sense because we are
14 not going to have that much gas in the future.

15 CO-CHAIRPERSON ESPINAL: [interposing]
16 Let's give the next gentleman a chance to speak and
17 then we'll go onto questions.

18 RUTH HARDINGER: Thank you.

19 JEFF ZIMMERMAN: Thank you. My name is
20 Jeff Zimmerman. I'm legal counsel for Damascus
21 Citizens. The issue I would like to spend a minute
22 or two on may not be quite the same as the state of
23 your pipes, but it's the state of what's inside the
24 pipes. The gas contains radioactive radon. The
25 question is how much radioactive radon are we

1 getting. Historically, we've had very, very low
2 levels in New York City because our gas has come from
3 Louisiana where it starts out at a very low level, 5
4 Pico Curies per liter that they will have in the Gulf
5 [sic]. And it takes seven days to get here, by which
6 time it's decayed to about 1 Pico Curie.

8 EPA sets the mitigation level of 4 Pico
9 Curies per liter as when action be taken. But that 4
10 Pico Curie number is often 21,000 deaths per year
11 across the United States. Recently, the World Health
12 Organization reduced its mitigation level to 2.7 Pico
13 Curies per liter. The Mercellus shale contains more
14 radiation than most shale gas deposits. It's a
15 darker, richer shale, and naturally contains more
16 radium than radon. In order to do something about
17 this, how are New Yorkers affected? Most of New
18 Yorkers that will experience radon exposure will get
19 it from their kitchen stove. If you have a pilot
20 light on your stove, radon is spilling into your
21 apartment 24 hours a day, seven days a week. If you
22 have spark ignition gas stove, the gas only flows
23 when the stove is turned on. What should we do about
24 this increased risk of radon-induced cancer in New
25 York City? The first thing we should do is get more

1 data on the levels of radon in the gas. The second
2 thing we should do is we should stop any activity
3 that involves increased risk to New York City
4 residents. In other words, we need to come up with a
5 patchwork system to hold the line at historical
6 levels of radon while we're gathering enough data to
7 determine what the first future risks should be.

8 Thank you.

9
10 CO-CHAIRPERSON EPINAL: Thank you. I want
11 to go back to slides. Do you mind just going through
12 very quickly what each slide is?

13 JOHN ZIMMERMAN: [off mic] Next slide.
14 That's Newton, Mass.

15 CO-CHAIRPERSON ESPINAL: Do you mind
16 speaking into the mic? Do you mind speaking into the
17 mic?

18 JOHN ZIMMERMAN: This is an overview of
19 Newton, Massachusetts, the main thoroughfare that's
20 going through the street. Thank you. And the gas
21 leaks I used a Cavity Ring Down Spectrophotometer to
22 provide methane reads coordinated with GPS
23 coordinates. I don't know if it shows up on here.
24 So that's what that one is. That's just an overview
25 of Newton, Massachusetts. This one is New Bedford,

1
2 Massachusetts, one street going down through the
3 center of the peninsula in New Bedford. And it was a
4 good shot showing gas leaks going down the street in
5 a row of joint leaks in a cast iron main. This is
6 Cambridge, Massachusetts just to get an idea of how
7 many gas leaks are out there looking south from
8 Boston into Cambridge.

9 And I came down to New York last year.
10 This is actually a study I did with Boston University
11 and Duke University of Washington, D.C. where we
12 documented the entire city. It was about 6,000 gas
13 leaks, and you can't see them all. Each one has a
14 yellow point. The red is the path that I took. The
15 yellow points we can zoom right in on that. I have
16 that on Google Earth and you can zoom right in to
17 street level, and see -- get exactly where the gas
18 leaks are. I can do this for any location. I've
19 done it for quite a few cities. I did this last year
20 in Manhattan, and you can see the red is the path
21 that I took. And it's just a screen shot.

22 I have this on Google Earth, and the red
23 -- the yellow is the gas. We have a big indication
24 right here. I call it an elevated methane level
25 right here on Broadway very close to where we are

1
2 right here. I think we had a -- there was a job
3 going on right outside here where they had a steel
4 plate over the gas main that they were repairing. So
5 the gas was venting very freely. So you get a very
6 high methane read. So the spikes don't really
7 indicate the severity of the leak. They just
8 indicate that there is a leak there, and there could
9 be somewhere between 5 to 10,000 leaks throughout the
10 city. It's probably somewhere around 1,500 to 2,000
11 in Manhattan alone.

12 CO-CHAIRPERSON ESPINAL: Well, thank you.
13 It's very interesting. Maybe we can go with a copy
14 of slides.

15 JOHN ZIMMERMAN: They're a little more
16 expensive. [laughter] I spent a lot of time to get
17 down here. You cut me off at two minutes.

18 CO-CHAIRPERSON ESPINAL: Well, thank you.
19 Thank you. So we're going to go on -- we're going to
20 go onto the next panel.

21 JOHN ZIMMERMAN: [interposing] You know,
22 maybe could you do something for me. I mean I spent
23 a lot of time and effort to put this together. I'm
24 happy to share, but, you know, there has to be some
25

1
2 quid pro quo here. You got water downstairs. Well,
3 it's water up in Massachusetts, you know.

4 CO-CHAIRPERSON ESPINAL: All right, so
5 we're going to call up the next panel. Thank you for
6 your testimony. Jessica Roth, Denise Katzman, and
7 Clare Donohue.

8 [Pause]

9 [background discussion]

10 CO-CHAIRPERSON ESPINAL: All right, you
11 can begin. Just speak into the mic.

12 JESSICA ROTH: All right, I'm going to
13 speak really quickly because I'm good at that, and I
14 have a lot to say. Hi, I'm Jessica Roth. I'm a
15 fourth generation Brooklynite, and I'm working for
16 the past four years -- working against fossil fuel
17 infrastructure, and fossil fuels and towards
18 renewables. I also spent a year and a half doing
19 relief and rebuilding work in the Rockaways after
20 Sandy. One of the things that was really clear to me
21 during that time was how long it was taking
22 everything to be done in order to help the residents.
23 And how quickly it was being done, that the Rockaway
24 Lateral Pipeline was being built.

1
2 And I think that's a huge problem because
3 there's a lot of reasons that this applies to the
4 broader infrastructure issues that we're talking
5 about. First, pipelines fail and pipelines explode,
6 as we all know. And when that happens people are
7 hurt, people are killed. There's tons of property
8 damage and we have to deal with all the repercussions
9 of that. This is pressurized radioactive toxic gas
10 coming through these pipes that we're dealing with.
11 And the more they come from the Marcellus Shale
12 especially through Rockaway and the Spectra Pipeline,
13 the more we have to deal with the issues of how
14 they're breaking down both our communities, our
15 people and also the infrastructure itself.

16 They're much more dangerous to the actual
17 pipes, and cause needs for replacement much more
18 rapidly. In addition, building this pipeline through
19 a community that's resolving its -- recovering from
20 major trauma, and in ways that's going to affect the
21 economy out there. And that is also down the major
22 emergency evacuation route is another massive failure
23 of responsibility for residents of the Rockaways, as
24 well as the other people that are being affected by
25 the pipeline. Build-out is just as important as

1
2 maintenance. We have to be looking at that in the
3 context of all of this as well.

4 We always talk about looking at fuel from
5 cradle to grave, and we have to do that with
6 pipelines as well. Which contradicts a lot of what
7 National Grid was saying about resilience and prudent
8 investments. None of that can be done properly.
9 Also, as I say all the time, the definition of
10 insanity is doing something time and time again and
11 expecting a different result. Well, we keep building
12 out this infrastructure, and it keeps causing
13 problems. Instead, what we should be asking instead
14 of how do we fix it, is how do we make the system
15 better? How do we make changes? How do we shift to
16 renewables, and build a system that's going to work
17 better for all of us.

18 When I was talking with Assembly Member
19 Goldfeder-- I'm make this quick -- about the pipeline
20 and fracking, he didn't understand the difference
21 between, or how fracking was affecting the pipeline.
22 And I was explaining all the different problems with
23 fracking, and he said, So, you're saying that natural
24 gas is an inherently dangerous product? And for the
25 first time, it kind of clicked back to my law school

1 days, and I said, Yes, that's exactly what I'm
2 talking about. And I'm not a torts expert, but
3 inherently dangerous products that when they are used
4 as they are intended, they pose a threat no matter
5 what. And then that causes a strict liability
6 standard for the producer. This is something that we
7 need to be re-evaluating.

9 Natural gas is an inherently dangerous
10 product. There's nothing that is going to be safe
11 about it. It's explosive. It's radioactive. It
12 exposes us to radon. Radon is the leading cause of
13 lung cancer in non-smokers. This is going to be a
14 massive problem for New York City and beyond. It's
15 also not the cleanest and greenest as Con Ed said.
16 It is neither of those. We need to be talking about
17 methane and not just carbon. Methane is massively
18 destructive, and Methane is released in the process
19 of extraction as well as the use of this fuel.
20 Instead, what we need to be doing is talking about
21 this gas as it is, an inherently dangerous product.
22 And talk about how do we make a safe, resilient,
23 clean New York City, which will be building out
24 renewable infrastructure and moving towards the
25 future together from all levels of government as well

1
2 as all the grassroots that is represented around
3 here. That's all. Thank you.

4 CO-CHAIRPERSON ESPINAL: Thank you.

5 CLARE DONOHUE: [laughs] Hi, I'm Clare
6 Donohue from Sane Energy Project. I can't speak
7 quite as quickly as Jessica. There's a red folder
8 with a lot of backup material that's been provided to
9 you. My points are that gas pipelines are a hazard.
10 Hazards cost the city money, plain and simple.
11 They're an explosion risk, and all the other reasons
12 that have been mentioned as well as, of course,
13 fracking and the risk to our watershed, our air
14 quality from that. The gas pipelines for heating is
15 unnecessary. In 2010, the New York State Department
16 of Energy published a chart that showed that gas
17 usage expected demand in New York City through 2020
18 was flat.

19 The demand that is supposed to be
20 happening because of boiler conversions is an
21 invented demand. Mayor Bloomberg and Con Ed's Clean
22 Heat Program essentially created a scare and panic
23 attack among buildings to convert to gas. The law
24 does not require you to convert to gas, and better,
25 cheaper, cleaner options are available. The ideal

1
2 conversion would be one to biodiesel to get rid of
3 all the sludge that they were talking about clogging
4 up the water pipes. And combined with solar thermal
5 to heat hot water. There is no reason to run a
6 boiler at all in August, and the most important one
7 is efficiency. The cheapest fuel is fuel never used.
8 So we need to pump those efforts up.

9 And since this is about the economic
10 impacts of the infrastructure, I'd like to talk about
11 the economic impacts to residents and to rate payers,
12 tenants, and taxpayers. There are negative financial
13 impacts to rent regulated tenants from boiler
14 conversions. Landlords are able to use that as an
15 NCI. That cost is passed onto rent regulated
16 tenants. It is particularly difficult for low income
17 residents. In my own building, my own experience, a
18 \$300,000 conversion was charged to the tenants with
19 rent increases of up to \$100 a month. That's a deal
20 breaker for most of the tenants in my building, which
21 are mostly low income and Hispanic.

22 Just one last point is about the negative
23 impacts financially to the City should an accident
24 occur. Those will also be passed onto the rate
25 payers. If you look at the San Bruno explosion,

1 PS&G, their costs were passed on to the rate payers.
2 So that was billions of dollars with approximately \$1
3 billion in damage from lawsuits, repairs. And a new
4 safety program at the same time the CEO of the
5 company ran a \$10 million advertising campaign saying
6 that they should do better.
7

8 CO-CHAIRPERSON ESPINAL: Thank you.

9 DENISE KATZMAN: Denise Katzman,
10 Envirohancement [sp?]. We are fighting daily to
11 protect and preserve human enviro, and economic
12 health. Sustainable renewable energy would not have
13 caused the East Harlem explosion and related theft of
14 life. New York State Assembly Energy Committee
15 recently passed the brand new Solar Nexus, the Shared
16 Clean Energy Bill A-9931. I co-sign onto what Clare
17 said. Resilient sustainable energy is our future,
18 not the old school mentality of burning energy. So
19 we have wind, and we have geothermal, and in Brooklyn
20 there's a brand initiative at an entity called
21 Weeksville Heritage Center for Geothermal, and Ikea's
22 new Kansas City store has flipped a switch also to
23 geothermal.

24 It is our proven safe, secure,
25 sustainable resilient energy sources via the global

1
2 economy nexus. Energy storage is also an enhanced
3 energy analytic. As a business manager in climate
4 science analytic, I know the relevance of
5 anthropogenic climate change. Natural gas is
6 methane. It is not biodegradable along any short
7 time line. NYC's antiquated and deteriorating gas
8 mains are co-mingled with water mains, electric
9 lines, and a myriad of outdated infrastructure, and
10 this ain't a love fest. The infrastructure is
11 perpetually exploding and imploding minus all regard
12 for safety and loss of property value. Gross
13 negligence is the most efficient way to label it.
14 The former NTSB Chair Jim Hall, "All pipelines are
15 ticking time bombs."

16 Former DOT Secretary, Ray LaHood, "A
17 light switch should cause an explosion." These
18 comments were made when the San Bruno disaster
19 happened. Climate crisis, climate change is
20 destroying components that stabilize the earth:
21 Permafrost, and the Arctic ice sheet. If we stay
22 stuck in the antiquated energy realm, we will remain
23 the problem not the vibrant energy solution.
24 Community Choice Aggregation is a clean energy
25 vibrant choice solution that utilities across this

1
2 country are utilizing. Utilities in this state need
3 to get hit for that.

4 Also, it's called LUG, Loss of
5 Unaccounted for Gas. Rate payers pay for this
6 through the utilities. Rate payers are unwittingly
7 paying for this. They are being ripped off, and that
8 is -- It amounts to common law fraud, and the City
9 and the State are responsible because of the Public
10 Service Commission.

11 And I'll wrap this up. On March 15th,
12 Senator Edward Markey of Massachusetts in the
13 Washington Examiner stated -- the article opened with
14 the East Harlem Disaster. "Those pipelines have cost
15 consumers billions in lost gas, and have contributed
16 to the hundreds of explosions over the last decade."
17 New York City has got to stop sitting on its hands,
18 and take resilient energy action now. Thank you.

19 CO-CHAIRPERSON ESPINAL: Thank you. I'm
20 going to call up the next panel. Buck Moorehead,
21 Mauve Moorhead, and Sara Lupson.

22 [Pause]

23 CO-CHAIRPERSON ESPINAL: You may begin.
24 Just state your name into the microphone.

1
2 SARA LUPSON: My name is Sara Lupson, and
3 I'm here on behalf of Riverkeeper. On behalf of all
4 of us at Riverkeeper, I want to say thank you so much
5 for having this panel. You really touched on some
6 issues near and dear to our hearts such as green
7 infrastructure and CSOs. I won't go over too much why
8 those are important, because I think we've really
9 covered them. But I will say that I have a few
10 comments based on the questions you guys are asking.
11 From my measurements, as little as a quarter of an
12 inch of rain can trigger a CSO in New York. That's
13 not tremendous rainfall. So I want to make sure when
14 we talk about CSOs that we are acknowledging that
15 this is an everyday sort of problem.

16 And that's something that green
17 infrastructure while it may not be able to handle the
18 huge volume that gray infrastructure can handle, it
19 can really help in reducing CSO events in small rain
20 events. We need to invest in our infrastructure. We
21 really need to adopt a robust combined sewer overflow
22 management plan. I want to emphasize again how
23 important green infrastructure is. And I also want
24 to applaud the DEP for their efforts to incorporate
25 green infrastructure. They have also adopted the

1
2 Envision Sustainable Infrastructure Rating System,
3 which is they are using it as a guide to internally
4 guide their infrastructure projects for
5 sustainability. We're a big fan of this system, and
6 we would be really happy to see other agencies use
7 it. And we hope that we have to have the Envision
8 rated system in the near future in New York.

9 MADGE MOOREHEAD: I'm Madge [sic]
10 Moorehead. I'm with MY H2O, as well as DCS. They're
11 sister organizations. I have given my testimony,
12 which is considerably longer than I'm going to state
13 here that's for sure. But I'll try to summarize
14 quickly. The ignored radon issue has not been
15 reviewed by the full Con Edison or National Grid or
16 certainly not publicly by the gas industry at large.
17 Con Edison has absolved themselves of responsibility
18 for the radon issue by asserting that they are not
19 aware of such hazards such as radon in the
20 transported gas. The Public Safety Commission
21 absolves themselves of any responsibility related to
22 the Spectra Pipeline, as long as Con Edison follows a
23 few reviews of perfunctory construction of the
24 Spectra Pipeline undermining any safety concerns for
25

1
2 which their creation was originally intended. The
3 issues are as follows:

4 Gas distribution daily monitoring and
5 operation reports must be filed with the DEP and
6 Public Service Commission to include independently
7 measured independently rated levels of Radon 222 in
8 the gas, and Radium 226 and 228 in the water routed
9 to the New York City end users. This would include
10 Con Edison distribution lines into New York City to
11 determine the level of radon in the gas transporter
12 through the pipelines. I'm going to quickly
13 summarize this. You have a full report there that
14 I've written, but I'm going to summarize.

15 There is no radon reported in the DEC and
16 the EIS because the testing was focused on water, not
17 on gas transport, which is how Radon 222 was
18 transported. Radon exists in the gas flow and
19 results in transport to end users and thus inhaled.
20 This critical computation of radon has not been
21 determined anywhere along the gas transportation
22 pipelines. Of all the thousands of wellhead casings,
23 et cetera left there, nothing has ever been tested.
24 Breathing radon becomes a stark reality to the level
25 of radiated toxicity presented to the end user. No

1 attempt was ever made to dispose of levels of radon
2 when appraising the wells tested by the DEC itself
3 and the EIS. I have a list of a number of different
4 wells that are extremely high.
5

6 I'll just simply ready conclusion. In
7 conclusion, New York City -- the City of New York
8 must state a standard for maximum allowable level of
9 radon transported from the newest resource the
10 Marcellus Shale to be delivered to homes and
11 businesses. There must be a consistent independent
12 monitoring system paid by the industry that oversees
13 daily reports to the DEP and Con Edison.
14 Accountability is essential, and crucial oversight is
15 the formula to that aim. All efforts to remediate
16 within a set short period of time after the incidents
17 discovered and/or a full shutdown of the delivered
18 toxic level of radon infused gas altogether to
19 protect the vulnerable public are key to this proven
20 critical hazard that confronts New York City at this
21 time.

22 CO-CHAIRPERSON ESPINAL: Thank you.

23 BUCK MOOREHEAD: Hi, my name is Buck
24 Moorehead. I'm an architect and also with MY H2O.
25 We really appreciate this hearing that you're having.

1
2 I think it's a really critical discussion about the
3 infrastructure of New York City. When PlaNYC was
4 written in 2007, it promoted an extensive growth in
5 the gas infrastructure. That was before we knew the
6 term fracking. It was before we knew about these
7 potential public health issues with respect to radon.
8 This push, 75% of New York City's energy use is in
9 building use. Most of that is provided by this gas
10 infrastructure. The conversation we should be having
11 is reducing the amount of energy use we can in
12 buildings, which is a completely achievable activity
13 now. And it changes the way that the City Council
14 should be reviewing this infrastructure question.

15 We can reduce buildings' energy use by 80
16 to 90% for heating and cooling using Passive House
17 Standards. These have been developed in Europe. In
18 1990, they built 30,000 building that do this. By
19 coincidence, New York as a Passive House Community,
20 there was a conference, an annual conference
21 yesterday. Four hundred people attended this not two
22 miles from here in Chelsea. There Are a number of
23 buildings including Passive House in New York City
24 now which are meeting this standard. There were
25 people from Europe there and Brussels. Starting

1
2 within six months, they are going to require that all
3 of their buildings are to Passive House Standards
4 that are constructed or retrofitted in the City of
5 Brussels.

6 The European Union by 2020 is mandating
7 that all new buildings and retrofits be to near zero
8 or net zero energy use. That's within five, and if
9 they don't -- The residue energy that they require,
10 they have to generate on their own site. So those
11 buildings are not using -- They're not using any gas.
12 This is something that's completely achievable to us
13 today, and the conversation that we have to be having
14 is not about strengthening our gas infrastructure,
15 it's about how do we do away with it? Ten billion
16 dollars for those guys to invest in this
17 infrastructure that money can be much better spent.
18 So there's the New York City Energy Board. I'd like
19 -- I don't know if the New York City Council
20 participates on this board.

21 It was a 2011 Update to the State -- to
22 the PlaNYC that board was established. I want to
23 know who is on that board. I think the City Council
24 should be participating because there are a lot of
25 people here who support, you know, would support

1
2 actually changing the way the paradigm of how we use
3 and develop energy in this. We can't go on. We
4 heard it today. It was scary. We've got like, you
5 know, what was it calculated? It was something like
6 15,000 leaks that are in the hazardous category
7 annually. I mean egads, that's not good. I mean
8 that's not something that we can live with or should
9 live with. So I think that we shouldn't have the
10 energy future of New York determined by the people
11 who are making money by providing it. That's Con Ed.
12 That's these energy companies. We have to change
13 that discussion, and I think it has to occur with New
14 York City's Energy Board and your help. I mean,
15 obviously, your help would be fantastic. Thank you.

16 CO-CHAIRPERSON ESPINAL: Thank you. All
17 right, thank you for your testimony. We have the
18 last panel which is Tianna Renn [sp?], Ken Gale, and
19 Larry Lipman.

20 [Pause]

21 [background discussion]

22 KEN GALE: All right, Larry Lipman has
23 left. Thank you for holding this hearing, and for
24 the opportunity to speak. I'll talk about practical
25 solutions adjusting [sic] for some of the other

1
2 speakers. My name is Ken Gale, and I am the host and
3 producer of environmental radio show Eco-Logic on
4 WBAI-FM here in New York City. Of course, I took
5 notice of the gas pipeline explosion in East Harlem,
6 and realized our addiction to fuel was partly or
7 largely to blame. The only solace I could take was
8 the explosion was not from one of the new high
9 pressure gas lines that have been put into the city
10 lately, such as the one put into West Village and the
11 one planned for Flatbush Avenue in Brooklyn. And I
12 can look on the bright side that the explosion wasn't
13 a few minutes earlier or later or it would have
14 blown out windows in the commuter train passing that
15 building.

16 In spending time in East Harlem since the
17 explosion and talking to people there, I couldn't
18 help but notice and hear about the slow reaction of
19 city services. I don't live in East Harlem, and am
20 confident that the blown out windows of the
21 surrounding buildings would have been replaced much
22 faster in my own neighborhood. The other services
23 the explosion interrupted would have been fixed much
24 faster in my own neighborhood. To be sure, I'm not
25 saying everyone should have slow service. I'm saying

1
2 everyone should have the same speedy service. There
3 is a lot of anger in the community, but a lot of it
4 is focused constructively. I saw a sign saying "Hire
5 the Jobless to fix the pipes in the buildings." And
6 I would like to add a friendly edit: Train the
7 jobless.

8 Clearly, the jobs are there, and the
9 jobless are there. The need is there on both sides
10 that can be solved all at once. A two-for-one deal,
11 and three-for-one actually because the community
12 would applaud such training, and they need something
13 to applaud. Clearly, alternatives to fossil fuel are
14 needed, and I would like to suggest two. One is
15 energy efficiency. Train the jobless in East Harlem
16 to do energy audits, and construction to make our
17 buildings use less energy. Seventy-five percent of
18 New York's greenhouse gas emissions are due to our
19 buildings. And, lowering our energy needs creates
20 jobs, and adds discretionary income to anyone who is
21 homeless and made more efficient. Such discretionary
22 income is almost always spent locally.

23 So there are two more additions to the
24 New York City economy. And it eases the load on the
25 electricity grid lowering the risk of a blackout, and

1
2 make us just that much healthier because that stuff
3 is burned. Energy efficiency is the most cost-
4 effective way to lower New York City's carbon and
5 methane footprints, and reverse climate chaos.
6 Contact NYSERDA for that training.

7 Number two is solar thermal, getting heat
8 and hot water from the sun. Solar thermal costs one-
9 eight to one-tenth as much as solar voltaic
10 electricity, and a rooftop solar array can supply all
11 the heat and hot water for a five-story building.
12 But the same size PV array can supply enough
13 electricity for only one story. Solar thermal
14 directly replaces methane, and with less methane
15 being used, there is less chance of another gas
16 explosion like what happened in East Harlem. There
17 are only a handful of certified solar installers in
18 the whole city. The community colleges have solar
19 thermal training classes. We need those skills. The
20 training for those jobs requires an investment, and
21 that investment should go to the people of East
22 Harlem. When the air or water is clean, thank an
23 environmentalist. If not, become one. Enough said.
24 Thank you.

1
2 CHAIRPERSON GARODNICK: Thank you very
3 much, and I think that's probably the right tone for
4 us to end the hearing today. I want to thank my Co-
5 Chairs Donovan Richards of the Environmental
6 Protection Committee and Rafael Espinal of the
7 Consumer Affairs Committee. This has been a very,
8 very informative hearing. And will not be the last
9 on the subject of New York City's infrastructure
10 because we certainly as a group are committed to
11 ensuring that we are doing the right things upfront,
12 and not simply responding. And so, we appreciate the
13 patience of everybody who has been here today to
14 testify, and the participation of the agencies and
15 the utility companies that were here earlier. And
16 with that, gentlemen, we are adjourned. [gavel]

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C E R T I F I C A T E

World Wide Dictation certifies that the foregoing transcript is a true and accurate record of the proceedings. We further certify that there is no relation to any of the parties to this action by blood or marriage, and that there is interest in the outcome of this matter.



Date June 26, 2014