

CITY COUNCIL
CITY OF NEW YORK

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TRANSCRIPT OF THE MINUTES

of the

COMMITTEE ON FIRE AND CRIMINAL JUSTICE SERVICES
COMMITTEE ON PUBLIC SAFETY
COMMITTEE ON TECHNOLOGY

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September 27, 2011
Start: 10:13 am
Recess: 12:55 pm

HELD AT: Committee Room
250 Broadway, 16th Floor

B E F O R E:

ELIZABETH S. CROWLEY
PETER F. VALLONE, JR.
FERNANDO CABRERA
Chairpersons

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

Caswell F. Holloway
Deputy Mayor for Operations
City of New York

Charles Dowd
Deputy Chief
Communications Division
NYPD

Robert Boyce
Chief of Communications
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Steve Harte
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Don Stanton
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Director of Government Relations
Association of Public Safety and
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2 CHAIRPERSON VALLONE: Good morning
3 everyone. Welcome to today's joint hearing of the
4 Public Safety, Fire and Criminal Justice and
5 Technology Committees. This is a follow-up
6 hearing to other hearings that we've held, back in
7 2002 and 2006, which examined advancements made to
8 communications technology among first responders
9 after September 11th.

10 Today, we come together a little
11 after the ten-year anniversary of the attack, and
12 our city has worked tirelessly in the past ten
13 years to revitalize Lower Manhattan and provide a
14 proper memorial for those lost. It's also
15 important that we honor those lost by continuing
16 to work together to ensure that our city's public
17 safety entities are better equipped to handle all
18 types of emergency situations. For that reason,
19 today we are going to reassess our technology
20 among first responders ten years after 9/11.

21 The 9/11 Commission report and the
22 McKinsey report and the testimony we heard in
23 2006, all provided insight into the city's
24 interagency response and preparedness for large
25 scale disasters. For the most part, NYPD's

2 communication systems were effective on 9/11, in
3 that there were minimal amounts of dead air. Many
4 improvements have been made, however, and more can
5 still be made.

6 Most specifically, three
7 improvements have been deemed necessary. Number
8 one: the need for more interoperability between
9 NYPD and other city agencies, as well as with
10 those other jurisdictions who provide aide to our
11 city. Two: the need for a dedicated broadband
12 network to public safety. Three: according to
13 Ray Kelly himself, the need for a backup 911
14 system.

15 In 2006, we learned that the NYPD
16 would begin using new radios with accessibility to
17 more channels in response to the FDNY's changeover
18 to a similar UHF system. We also learned from
19 DoITT about the city's new broadband network
20 initiative known as NYCWiN. We hope to learn
21 today more about how the NYPD is using those
22 interagency communications and utilizing NYCWiN.

23 We're also going to discuss
24 proposed Resolution 870-A, sponsored by myself,
25 which calls upon the United States Congress to

1 pass and the President to sign into law the Public
2 Safety Spectrum and Wireless Act S911. This bill
3 has been supported by Police Commissioner Kelly,
4 Senator Gillibrand, Senator Schumer, Congressman
5 King, and would provide for a nationwide
6 interoperable broadband network, which would
7 provide our city's public safety entities with the
8 ability to be interoperable with one another as
9 well as with federal authorities and those from
10 other localities on one main system. It will
11 allow for high speed data transfer and would
12 effectively bring public safety in our city into
13 the forefront of technology.

14
15 We learned on 9/11 that the
16 inability to effectively communicate with one
17 another during emergency responses can be the
18 difference between life and death.

19 My co-chairs and I are dedicated to
20 ensuring that we continue to work hard at
21 providing our first responders with the best
22 methods of communications and the most up to date
23 equipment. Today we're all in this room for that
24 purpose. We have members of the administration
25 with us today. We look forward to learning more

1 about the advancements made by the city in the
2 last ten years and what still needs to be done.

3
4 We are going to have a second
5 hearing on October 6th at 1:00 p.m. On that day,
6 Ray Kelly will be testifying. On that day we're
7 going to go into a more broad topic about safety
8 in our city since 9/11, what we have done to be
9 safer and what still needs to be done. If there
10 are any other surprises, such as our ability to
11 take out aircraft, we'll probably learn about them
12 on that day. Perhaps we have the ability to
13 deflect meteors; I'm not sure, but mark the
14 calendar for October 6th at 1:00 p.m.

15 So, with that being said, I'll turn
16 the floor over to Chair Elizabeth Crowley, who is
17 chair of the Fire and Criminal Justices Services
18 Committee.

19 CHAIRPERSON CROWLEY: Good morning.
20 Thank you, Co-chair Peter Vallone. My name is
21 Elizabeth Crowley and I am the chair of the Fire
22 and Criminal Justice Services Committee here at
23 the City Council. I'd like to thank my co-chairs,
24 Peter Vallone, Jr., and Fernando Cabrera, and our
25 staffs for their help in organizing this important

1 hearing.

2
3 I'd also like to welcome Deputy
4 Mayor Cas Holloway and the representatives of the
5 Fire and Police Departments and the Department of
6 Information Technology and Telecommunications for
7 being here today.

8 The terrorist attack of September
9 11th revealed that there were critical
10 communication problems within and among our first
11 responders. While the City Council has received
12 progress reports from the Administration over the
13 years regarding their efforts to address known
14 problems, I think it is important that we review
15 these efforts in a comprehensive way.

16 While I recognize the
17 Administration has improved the ability of our
18 first responders to communicate within and among
19 city agencies and with the federal government, I
20 am concerned with the length of time it has taken
21 to make some of these improvements. And I also
22 believe there are some critical improvements that
23 need to be made. In particular, I'm concerned
24 that although \$120 million has been spent to
25 improve radio communications within our subways

1 and tunnels, that there are still numerous dead
2 spots throughout these systems. The issue is of
3 particular concern because the New York City
4 transit system is a major terrorist target.
5

6 I am also concerned about
7 emergencies in high rise buildings. When in an
8 emergency in a high rise building, can a
9 firefighter communicate effectively with their
10 radios to the command center? Although post
11 radios and crossband repeaters have improved
12 communications in high rise buildings, I
13 understand that there is still room for
14 improvement.

15 While NYCWiN, the city's new
16 wireless network has improved data communication
17 for first responders, this system is being shared
18 with non-public safety agencies, thereby limiting
19 its capacity to improve and enhance public safety.
20 I'm also concerned that the capacity the system
21 has is not being fully realized and I'd like to
22 learn more regarding how the system and its
23 infrastructure is being safeguarded.

24 I'm also concerned that while some
25 strides have been made to improve EMS

2 communication, EMS has not been fully integrated
3 into the system. I was recently apprised that
4 although all EMS ambulance are outfitted with the
5 automatic vehicle locators, AVL is not
6 synchronized with the EMS computer aided dispatch
7 CAD system, thereby greatly inhibiting the use to
8 AVL to keep track of and dispatch ambulance in an
9 emergency.

10 We are obligated to provide our
11 first responders with the best tools available to
12 them to do their jobs that they risk their lives
13 to do and to protect us. We are obligated to
14 provide our first responders with the best tools
15 available to do that effectively. While I look
16 forward to getting an update in that regard, I
17 hope that the rank and file and their
18 representatives are also included in the process.

19 I'd like to recognize my co-chair,
20 Fernando Cabrera.

21 CHAIRPERSON CABRERA: Thank you so
22 much. Good morning and welcome to this hearing:
23 First Responder Communications Ten Years after
24 9/11. The terrorist attack on September 11th,
25 2001 highlighted a number of significant

2 communication issues that existed among and
3 between emergency personnel, including the failure
4 of FDNY radios and the lack of interoperability.

5 The 9/11 Commission report
6 explained that the FDNY and NYPD each consider
7 itself operationally autonomous and on September
8 11th, they were not prepared to comprehensively
9 coordinate their efforts in responding to a major
10 incident.

11 When an emergency occurs, first
12 responders must be able to communicate without
13 interference and across departments and regions.
14 The ability of the public safety community to
15 provide a coordinated response to criminal
16 activities, fires, medical emergencies or natural
17 disasters can mean the difference between life and
18 death.

19 In a City Council hearing on
20 emergency communications in 2006, the FDNY, NYPD,
21 OEM testified on the significant progress that
22 they had made in radio communications, along with
23 changes in protocol since September 11th. Since
24 then, the city has implemented New York City
25 Wireless Network, NYCWiN citywide, which is a high

2 speed mobile data network, allowing first
3 responders and incident managers at remote sites
4 to share real time video and data feeds. NYCWiN
5 provides field personnel with remote access to
6 operating procedures, maps and other geographic
7 information and the ability to transmit on the
8 scene data in full motion streaming video.

9 Today, we hope to learn what
10 progress has been made with the NYPD, FDNY and OEM
11 in emergency communication in the last five years
12 and how NYCWiN is being used by emergency
13 personnel. I'll turn it back over to Chair
14 Vallone. Thank you so much.

15 CHAIRPERSON VALLONE: Thank you,
16 Fernando. It's our pleasure to be working with
17 you for the first time as chair of this committee,
18 ably taking over for Gale Brewer. Deputy Mayor
19 Cas Holloway, this may be your first time
20 testifying, definitely before this committee, in
21 your new title. We congratulate you. We look
22 forward to working with you.

23 Before I get to you, we've been
24 joined by Council Members Rodriguez, Mendez was
25 here momentarily and Mark Weprin I believe is also

2 here.

3 COUNCIL MEMBER WEPRIN: Still here.

4 CHAIRPERSON VALLONE: Still here,
5 okay. So we have a panel to listen to you now,
6 and the floor is yours.

7 CASWELL F. HOLLOWAY: Thanks very
8 much. Good morning Chairs Crowley, Vallone and
9 Cabrera. It's a pleasure to be here as Deputy
10 Mayor for Operations. Council Member Weprin and
11 everyone else, thank you very much for the
12 opportunity to testify.

13 I'm joined here this morning by
14 Chief Dowd from NYPD, Chief Boyce from FDNY and
15 Associate Commissioner Steve Harte from DoITT, all
16 experts and all working together. I can tell you
17 that because I've been in rooms with all three of
18 them for hours upon hours on the subject of
19 today's hearing, which is public safety
20 communications.

21 So, thank you for the opportunity
22 to testify. I want to start by talking about the
23 need for federal legislation to establish a
24 broadband network dedicated to public safety.

25 As you know, the September 11th,

2 2001 terrorist attacks highlighted critical
3 vulnerabilities in the reliability and
4 interoperability of New York City's first
5 responder emergency communications. Over the last
6 ten years, as Chair Vallone you catalogued to some
7 extent, the city has invested heavily in these
8 vulnerabilities, allocating over \$258 million of
9 Homeland Security funding to strengthen our
10 communications for first responders in New York
11 City and with our regional and federal partners.
12 As a result, our capabilities today are stronger
13 than ever, and we continue to build upon and
14 improve our first responder communications.

15 As the Council recognizes, however,
16 federal action on this issue is imperative. The
17 9/11 Commission urged Congress to enact
18 legislation to provide for the expedited and
19 increased assignment of radio spectrum for public
20 safety purposes. Legislation pending before
21 Congress would do just that, establishing a
22 nationwide interoperable wireless broadband
23 network for public safety. The Administration
24 supports the efforts of the Council to focus local
25 and national attention on this vital issue through

2 Resolution 870-A. Along with you, we hope that
3 Congress will quickly resolve any issues and pass
4 legislation to achieve this critical public safety
5 initiative.

6 While congressional action is
7 important, New York City had made significant
8 strides to address vulnerability in our first
9 responders' communications capabilities.

10 Before going through the status of
11 specific investments that Mayor Bloomberg has made
12 since 9/11, I want to first explain perhaps the
13 most important operational change the city has
14 made since that terrible day: the adoption of a
15 comprehensive standardized Citywide Incident
16 Management System, known as CIMS that requires the
17 establishment of a co-located unified command when
18 multiple city agencies respond to an incident.

19 CIMS is based on NIMS, the National
20 Incident Management System, which ensures
21 compatibility in incident command systems in use
22 across the 50 state and with federal agencies.
23 NIMS provides a systematic, proactive approach to
24 guide local and state jurisdictions in the
25 prevention, preparation, response and recovery

2 from terrorist attacks, major disasters and really
3 any emergency.

4 Through this structure, first
5 responders can leverage the benefit of face to
6 face communications, which at a high level is the
7 most effective way to share information. On 9/11,
8 the NYPD and FDNY, following longstanding
9 operating procedures, established separate
10 operational commands. As a result, and regardless
11 of the radio technology then in use by both
12 agencies, FDNY and NYPD conducted parallel
13 responses, rather than a unified response that can
14 help to ensure the safest and most efficient
15 deployment of resources in an emergency situation.

16 CIMS establishes clear roles for
17 responder agencies in all types of multi-agency
18 responses from car accidents to a building
19 collapse. Agency participation goes far beyond
20 NYPD and FDNY. The Departments of Health,
21 Environmental Protection and Buildings, just to
22 name a few, frequently have responsibility in a
23 multi-agency response, from testing air quality to
24 accessing structural stability.

25 For example, just last week, a

2 façade collapsed at a building being demolished o
3 125th Street. When I arrived on the scene, I
4 immediately went to the unified command location,
5 where FDNY, DOB and NYPD were coordinating the
6 operation. CIMS is designed to be scalable,
7 facilitating the integration of additional
8 organizations, including the private sector and
9 not-for-profit entities.

10 Through my continued work with
11 Police Commissioner Kelly, Fire Commissioner
12 Cassano and OEM Commissioner Bruno, we share the
13 view that implementation of CIMS, and specifically
14 the requirement of a unified command, is among the
15 most important advances in public safety
16 communications since 9/11. Just to give some
17 additional flavor there, over the past six weeks,
18 from the fire at the North River Wastewater
19 Treatment Plant to the water main break on Jerome
20 Avenue to the number of events, things happen in
21 the city all day, having the unified command--and
22 that is usually my first question when I arrive on
23 a scene--where is the unified command--and then
24 you're able to get an overall view of what is
25 happening in an incident response.

2 Now moving on to radio and other
3 telecommunication systems, ten years ago, the use
4 of disparate spectrum created interoperability
5 problems between the city's first responders.
6 Today, members of the NYPD can not only talk to
7 members of FDNY but also a broad range of local,
8 regional and federal agencies as needed, including
9 MTA, Port Authority, Nassau, Suffolk and
10 Westchester Counties, as well as about a dozen
11 federal agencies including the FBI, Department of
12 Homeland Security and Secret Service.

13 In fact, the Department of Homeland
14 Security's Office of Emergency Communications
15 recognized New York City's Interagency
16 Communications Committee, the ICC, earlier this
17 month as a best practice model for how
18 sophisticated and innovative governance structures
19 can enhance emergency communications efforts and
20 support major initiatives within a region/multi-
21 state framework.

22 The ICC, which was created in 2002,
23 was a regional consortium of first responders that
24 bring together over 40 local, state and federal
25 agencies to develop, test and implement

2 interoperable communication strategies. The group
3 worked together to establish the Tactical
4 Interoperable Communications Plan, which
5 consolidates information across agencies,
6 disciplines and jurisdictions by documenting
7 regional communications capabilities in order to
8 provide a usable and accurate regional tactical
9 incident response tool. The TICP met the federal
10 government's mandate in 2004 and 2006 to achieve
11 interoperability within an hour of an incident,
12 which was tested last summer.

13 The Department of Homeland Security
14 conferred its highest rating on the ICC for the
15 coordinated multi-agency operational planning and
16 mobilization during the Macy's July 10, 2010
17 fireworks show. During this event, more than
18 5,000 emergency responders and support personnel
19 from more than 50 governmental and non-
20 governmental agencies in New York and New Jersey
21 worked together, using a series of mobile command
22 posts, along with tactical and joint emergency
23 operations centers to communicate and share
24 information on the ground.

25 New York City's public safety

2 communications infrastructure is characterized by
3 a complex and sophisticated mix of technologies
4 that support day-to-day mission critical incident
5 response, as well citywide and regional joint
6 operations. This infrastructure consists of a
7 variety of land mobile radio, LMR, systems and
8 solutions that include conventional, trunked, and
9 point-to-point system, along with dispatch
10 consoles, fixed and mobile audio bridges and
11 gateways that across VHF, UHF and 800 megahertz
12 frequency bands.

13 The infrastructure also supports
14 nearly 85,000 radios used by our public safety and
15 essential service agencies. These agencies also
16 rely on a host of wireless and data applications.
17 Our systems and solutions are constantly improving
18 and allow for reliable and secure communications
19 among first responders on a tactical, operational
20 and command and control level.

21 Starting with the tactical, the
22 NYPD and FDNY primarily depend upon point-to-point
23 radio communications. Even on this basic level,
24 our first responders have interoperable
25 capabilities, enabling advanced coordination at

2 the incident scene. For example, officers from
3 NYPD Emergency Service Unit can communicate with
4 FDNY Fire Rescue Division to state and execute
5 joint operations on dedicate tactical channels.
6 This was a specific recommendation of the 9/11
7 Commission.

8 On an operation level, DoITT has
9 completed the design and rollout of the Citywide
10 Radio Network, CRN, which has consolidated many of
11 the separate frequencies previously used by
12 various New York City agencies, providing expanded
13 coverage and interoperability capabilities. It
14 also provides dedicated frequencies for each
15 borough that can be accessed by multiple city
16 agencies at the same time.

17 As a result, CRN gives agencies the
18 ability to communicate in the same band of
19 frequencies. This increases responder safety,
20 situational awareness and command and control.
21 Through CRN, users are able to receive consistent
22 and reliable communications throughout the five
23 boroughs on the same frequency band, regardless of
24 location. This network even allows for
25 unprecedented coverage on New York City's

2 waterways. The FDNY is in the process of fully
3 migrating its fire service and EMS dispatch
4 systems to CRN. This network employs narrow band,
5 conventional and trunked radio technologies which
6 increases channel efficiency during a major
7 emergency or during periods of peak demand. Using
8 CRN, FDNY command center personnel and en route
9 staff can monitor on-scene voice transmissions in
10 real time, which assists in remote decision
11 making.

12 From a command and control
13 perspective, communications are supported on the
14 region's Wide Area Interoperability Network, which
15 is managed by the NYPD. This network has three
16 dedicated interoperability channels, two
17 specifically for New York City and one region-wide
18 channel that can be used to support emergency
19 communications north of the city in Westchester
20 County, east of the city in Nassau and Suffolk
21 Counties on Long Island, and to the west, Newark,
22 New Jersey.

23 The Port Authority and MTA can also
24 operate on the network, along with federal
25 agencies, who may be responding to an incident in

2 New York City. The NYPD is also working on
3 building out an interoperable simulcast channel at
4 the new World Trade Center site, which will be
5 used by various local, regional and federal
6 entities.

7 Finally, there is the 800 megahertz
8 trunked radio network, which supports both day-to-
9 day and emergency communications for the city's
10 public safety and essential service agencies.
11 Using this system, roll calls are conducted every
12 other day by OEM watch command, among 60 city,
13 state and federal neighboring public safety and
14 essential service agencies and associated
15 jurisdictions as well as critical infrastructure
16 resource subscribers to ensure that all lines of
17 communication are open and operational.

18 A distinct health care and medical
19 facility talk group has also been created on the
20 network to make interoperability possible among
21 the OEM health response unit. That's a consortium
22 of 87 health care and related facilities. This
23 specialized task group facilitates the real time
24 exchange of information concerning the
25 availability of medical services, and enhances the

2 city's overall preparedness level.

3 Finally, more than 50 commissioners
4 from the city's mayoral agencies participate in a
5 supplementary talk group, so that at the request
6 of the mayor, agency heads can be quickly reached
7 to disseminate information to executive staff and
8 response teams should other channels of
9 communication be unavailable.

10 Not only has the city become a
11 model of voice interoperability, but we are
12 leading the nation through the development of our
13 state of the art wireless data network, built
14 exclusively for the use of city agencies. NYCWiN
15 is the most aggressive commitment by any
16 municipality in the United States to provide a
17 next generation public safety infrastructure and
18 has eliminated many of the challenges of sharing
19 data in the urban environment.

20 It was completed in 2009 and is
21 providing mission critical video, voice and data
22 communications through portable, mobile and fixed
23 location technologies to the city's first
24 responders and essential public services.

25 By enabling secure transfer of

2 critical information, coordination of mobile
3 resources and automation of labor intensive
4 processes, first responders are able to enhance
5 situational awareness, improve responder safety
6 and enable remote decision making. NYCWiN
7 provides its subscribers 24/7 network sup and
8 features strong encryption multilevel
9 authentication and physically protected equipment
10 installations.

11 Nearly 400 sites--and this is a
12 pretty incredible system--provide ubiquitous
13 coverage to more than 300 square miles spanning
14 all five boroughs. Today, NYCWiN powers more than
15 300 applications that span 29 city agencies on
16 nearly 750,000 devices. I have a special
17 connection to this as the former DEP commissioner,
18 that's the system that allows us to do wireless
19 billing.

20 First responders in the field rely
21 on NYCWiN for access to real time vital
22 information such as photos, warrants, license
23 plates, maps and operating procedures.
24 Additionally, incident commanders depend on the
25 network to enhance coordination with on-scene

2 personnel through the use of data transmission,
3 full motion video streaming and automatic vehicle
4 location. I've personally witnessed all of these
5 systems in action, both at NYPD, OEM and the LMSI
6 Center downtown.

7 The NYPD Real Time Crime Center
8 leverages this network infrastructure by enabling
9 officers in the field to access their search and
10 search their databases through NYCWiN. Another
11 innovative use of NYCWiN is the emergency of FDNY
12 electronic command board, which coordinates fire
13 service resources in the field. Over NYCWiN fire
14 ground radios are keyed up to track firefighters
15 in real time, via mobile modem installations on
16 the apparatus and in battalion chief vehicles.

17 Further enhancing situational
18 awareness is the city's operational video system,
19 interoperable video platform. This incident-based
20 video is shared across disparate video systems and
21 linked to the Mayor's Office, NYPD, FDNY, OEM and
22 other authorized agencies. OVS allows for highly
23 coordinated responses and enhances the safety of
24 first responder by bringing feeds from
25 helicopters, water craft, mobile command vehicles

2 and other deployable cameras.

3 In once instance, the OVS was
4 mobilized in January 2009 when US Airways Flight
5 1549 landed on the Hudson River. Within 15
6 minutes, OVS was streaming video from two first
7 responder vehicles to the FDNY command center, and
8 that feed was shared with other first responder
9 agencies.

10 All of these innovative investments
11 have significantly improved operational control
12 and incident management of emergencies. But it is
13 not enough. As we look to the future, our
14 nation's first responders need a nationwide
15 broadband network dedicated specifically to public
16 safety.

17 New York City has been a national
18 leader pushing for this critical tool, including
19 Mayor Bloomberg, which is essential to the mission
20 of first responder agencies around the country.
21 For this reason, as discussed earlier, the
22 Administration supports Resolution 870-A and has
23 been actively lobbying our leaders in Washington
24 for the creation of a common radio spectrum
25 dedicated to public safety. In fact, I was in

2 Washington on this very issue just last week.

3 Past experience has proved that our
4 first responder cannot depend on commercial
5 networks for reliable broadband communications.
6 Time and time again, during emergency incidents,
7 cell phone networks have been overwhelmed, making
8 police and fire communications over them virtually
9 impossible.

10 Finally, as you may know, this year
11 Congress drastically cut the level of Homeland
12 Security funding directed towards state and local
13 governments for Fiscal Year 12. New York City,
14 which remains the number one target for terrorist
15 threats, cannot sustain such an arbitrary
16 reduction in funds to many of the city's critical
17 Homeland Security programs.

18 I hope that the Council will work
19 with us. And I'll be happy to explain in detail
20 the potential impacts of this funding if left at
21 the current level, so that you'll work with us for
22 Congress to restore this vital funding.

23 New York City has worked hard to
24 ensure that our first responder can operate safely
25 and effectively when responding to an emergency

2 and to any event really. By demanding the highest
3 standards in reliability and interoperability,
4 both for voice and data communications, we have
5 improved significantly over the past decade. This
6 in turn has made all New Yorkers safe.

7 Thank you again for the opportunity
8 to testify, and I'm happy to answer any questions
9 you may have.

10 CHAIRPERSON VALLONE: Thank you,
11 Mr. Holloway. We've been joined by Council
12 Members Halloran, Koppell and James.

13 We are already working on a
14 Resolution supporting your efforts to have
15 Homeland Security funding restored. Any Council
16 Members who would like to sign on, please let Oona
17 Peterson know.

18 I'm going to turn first to Chair
19 Crowley for questions.

20 CHAIRPERSON CROWLEY: Thank you,
21 Co-Chair Vallone. Thank you, also, Deputy Mayor
22 for your testimony. I have a question about the
23 current status of communications within our subway
24 system and our tunnels. Can you give me an update
25 on how effective radio transmission and

2 communication is currently?

3 CASWELL F. HOLLOWAY: Sure. I will
4 turn it over in a second to Chief Dowd for some
5 more specifics on NYPD. But I'll start by saying
6 that the subway is perhaps one of the most
7 complicated environments in which to establish
8 complete comprehensive and reliable
9 communications. So we have a couple of
10 investments that are underway.

11 First, we've been working with the
12 MTA for many years to establish a network that
13 would enable the MTA, NYPD and FDNY and EMS all to
14 communicate over a single network. That has been
15 a challenge to implement completely. However,
16 FDNY and EMS are on that network and that is
17 already--

18 CHAIRPERSON CROWLEY: [interposing]
19 Just for the purpose of the committee members, can
20 you let us know how many people take the subway
21 every day?

22 CASWELL F. HOLLOWAY: What is the
23 number, five million?

24 CHAIRPERSON CROWLEY: How and where
25 is it on the terrorist target list? Would you say

2 it was like number one or--

3 CASWELL F. HOLLOWAY: [interposing]

4 I mean I can't answer specifically but--

5 CHAIRPERSON CROWLEY: [interposing]

6 Is your counterintelligence letting you know that
7 New York City, that the subway system is a major
8 target?

9 CASWELL F. HOLLOWAY: I think I can
10 accept the idea that the subway is--New York City
11 is a target and therefore any essential system
12 could also be. But I think the question is about
13 our ability to communicate in the subways. So I'm
14 trying to answer the question specifically.

15 CHAIRPERSON CROWLEY: Okay.

16 CASWELL F. HOLLOWAY: First, FDNY,
17 EMS, MTA all on the same network. Getting PD's
18 onto the network has been a challenge because of
19 the difference in UHF and VHF communications.
20 However, we've made significant progress in that
21 area. Chief Dowd, do you want to pick it up?

22 CHAIRPERSON CROWLEY: Just to
23 clarify the question, also interoperability among
24 the various agencies, and also the ability to just
25 communicate with the regular firefighter or

2 emergency worker that is within the subway out to
3 the command center. So are there difficulties
4 currently in radio communications within one
5 agency and also are there difficulties within one
6 agency to another agency?

7 CHARLES DOWD: The answer to
8 question is, first let me tackle this from the
9 perspective of the NYPD. We've been working with
10 the MTA now, as the Deputy Mayor just indicated,
11 for several years, to get this new UHF radio
12 system up and running in the subway system. There
13 have been some concerns on our part regarding the
14 coverage capabilities of it. Quite frankly, it's
15 our position that we don't want to accept usage of
16 that network unless it gives at least as good
17 coverage as it did on the old VHF system.

18 So what we're doing right now is we
19 are establishing a pilot project. We believe it's
20 going to be in the Bronx in the subway system.
21 Where we will allow police officers to use what we
22 refer to as dual band radios which are being
23 purchased, which allow the officers to work both
24 in the old VHF radio system in the subway and on
25 this new UHF system that's being built. We're

2 going to get feedback from those officers on how
3 they feel using both of those systems. In other
4 words, when they use this new UHF system, do they
5 get the same level of coverage and reliability
6 that they got on the old system, or hopefully even
7 better.

8 In regards to answer to
9 interoperability, well the same thing applies.
10 Since we would put our UHF interoperability down
11 in the subway, then unless that system works as we
12 would expect it to, you would have similar
13 difficulties with interoperability as you would
14 with just the regular operability for NYPD. So we
15 want to ensure that that system has the coverage
16 and reliability that we need to have, like I said,
17 at least matching and hopefully better than the
18 existing coverage and reliability on the old
19 system.

20 CASWELL F. HOLLOWAY: Let me just
21 give Chief Boyce an opportunity to explain on the
22 FDNY side the state of the world there.

23 ROBERT BOYCE: We have a couple of
24 tools that we use to committee in the subways.
25 The first one is the repeater system. It's a

2 combination MTA and the Fire Department repeater
3 system. And we also have the tool ACU 1000 that
4 we use and that's also used for interoperability.
5 So we have tools that we can use in the subways.

6 CHAIRPERSON CROWLEY: Do you feel
7 that your current tools of communicating work
8 effectively or to the standards that you need
9 within the Fire Department?

10 ROBERT BOYCE: Currently, the UHF
11 system is sufficient. I mean we're communicating
12 from the scene of an incident. We've tested it
13 underneath the river tunnels. We've tested it in
14 underground tunnels. We've tested it in the
15 stations. We think that it's sufficient to get
16 the communications from the scene to the street.

17 CHAIRPERSON CROWLEY: Does
18 sufficient mean that it works 95 percent of the
19 time or greater?

20 ROBERT BOYCE: I don't have a
21 percentage.

22 CASWELL F. HOLLOWAY: I mean I
23 think now pulling this whole picture together, the
24 FDNY and EMS are on the UHF system, and having
25 spent a great deal of time working on that

1 implementation, no system is perfect. There are
2 spots where--and the companies monitor where these
3 spots are and we let the MTA know and then we'll
4 see if we can strength it by adding a repeater
5 signal and so forth for them in operating on the
6 UHF system. So I think it's fair to say that FDNY
7 is in a good place. You can always have
8 improvement and we are constantly monitoring and
9 doing that.

11 NYPD, while they have not deployed
12 onto the UHF system, now this investment in dual
13 band radios I think is very significant. Because
14 what it enables us to do is there's a level of
15 confidence in the current system that the NYPD
16 has, and they have 53,000 radios and they have the
17 most significant number of people who actually
18 have these communications and could potentially
19 end up in the subway. So now they're going to be
20 able to be on the system that they know is
21 reliable, but not perfect, which is why we were
22 investing a new system. But then they will also,
23 at the same time, be able to go live onto the UHF
24 system. And I think through that piloting phase
25 will be able to both maintain a level of

2 communications that ensures public safety, fair to
3 say, Chief? And then figure out what is the level
4 of investment we need to make to fully convert or
5 maybe you leave it in the dual band environment.
6 But overall I think the level of communication
7 underground is strong, improvements are constantly
8 being made.

9 CHAIRPERSON CROWLEY: Do you know
10 who made the investment? I've read reports that
11 there has been over \$120 million invested in a
12 repeater system or transmitters down to
13 effectively transmit information and
14 communications.

15 CASWELL F. HOLLOWAY: The funding
16 is a combination of the MTA and the city.
17 Actually, I can get back to you with the details.
18 It's not a simple answer about where it comes
19 from, but it's a combination of the MTA and the
20 city.

21 CHAIRPERSON CROWLEY: Approximately
22 how much has been spent, do you know?

23 CASWELL F. HOLLOWAY: About \$140
24 million.

25 CHAIRPERSON CROWLEY: Now, I wasn't

2 here in '06 when we had the five year after
3 evaluation of September 11th and the
4 communications, but I understand that there was,
5 at that time, the FDNY was going to do some type
6 of study of the system that we have in the subway
7 system. I'm curious to know if you have a copy of
8 that report or that study and what that study may
9 have found.

10 CASWELL F. HOLLOWAY: I'm not sure
11 exactly what you're referring to specifically, but
12 Don Stanton who runs the IT for FDNY will talk to
13 you afterwards to see what study is available. I
14 think one important point though is FDNY is on the
15 system. So the UHF network has been built. FDNY
16 is operating on it. So the study may show--I'm
17 not sure what study you're referring to
18 specifically, we'll find out, but they are
19 operating on the system 24/7.

20 CHAIRPERSON CROWLEY: Right.
21 There's nobody here from the Fire Department who
22 could speak about that particular study?

23 CASWELL F. HOLLOWAY: We're not
24 sure what study you're referring to, so we'll
25 check.

2 ROBERT BOYCE: We'll look into
3 that.

4 CHAIRPERSON CROWLEY: Okay. It
5 gets confusing for us when you talk about the UHF
6 versus the VHF. I just want to know for the sake
7 of the safety of New Yorkers how effective
8 communications are currently within our subways
9 and our tunnels. Can we rest assured that you
10 can, in a time of emergency, communicate
11 effectively with first responders who are running
12 to an emergency situation underground?

13 CASWELL F. HOLLOWAY: I think
14 overall, both the NYPD and the FDNY have the
15 ability to communicate during emergencies, whether
16 they happen above ground or below ground. The
17 ability to use the MTA network, which would vastly
18 improve that ability to communicate underground,
19 hasn't fully happened yet. I know on the FDNY
20 they're on the network. Chief Dowd, do you want
21 to for the NYPD to take a shot at the Council
22 Member's question?

23 CHARLES DOWD: The answer is right
24 now we can communicate. We've been using the
25 older VHF system for decades and it's effective.

2 The issue is one of being able to get the police
3 officers over to the UHF system or UHF frequencies
4 that we use above ground so that police officers
5 above ground and below ground can listen to each
6 other on a regular basis.

7 We have interoperability with the
8 Fire Department. We've done drills in the subways
9 and MTA Path systems where we can bring the ACU
10 1000 devices in and combine a number of
11 frequencies onto one, in effect on big radio
12 system so that we can interoperate. So we have
13 those capabilities. And again, as the Deputy
14 Mayor pointed out in the beginning, the biggest
15 part of that is making sure you have a unified
16 command structure so that that kind of
17 communication capability is established
18 immediately.

19 CHAIRPERSON CROWLEY: I just want
20 to make sure that there are not areas within the
21 subways and tunnels that would have what one would
22 consider dead spots.

23 CHARLES DOWD: There is no more
24 difficult RF environment than the New York City
25 subway system. It is a very, very difficult--I

2 cannot sit here today and now one could have done
3 this 10 or 20 or 30 years ago and tell you that
4 every nook and cranny in the subway system has
5 coverage. It simply is not possible to say that.

6 That being said, that radio system
7 has been effectively used, that VHF system has
8 been effectively used by police officers in the
9 subway system for decades. What we're saying is
10 we want to switch over to this new UHF system, but
11 we want to be assured that it gives at least the
12 same level of coverage that the old system does.

13 CHAIRPERSON CROWLEY: Would you
14 agree that once that is achieved, switching over
15 from the UHF to the VHF, right? Other way around?
16 Will that address the dead spots in the other
17 areas of the subway? Is there a way to achieve
18 the ability to have full communication throughout
19 the subway system? If not this year or next year,
20 is there a way that we could improve technologies
21 to make sure that we could not have any dead
22 spots?

23 CHARLES DOWD: The answer to that
24 is, and I think the Deputy Mayor already kind of
25 hit on it, is that you can constantly improve

2 these things as you go. Again, one of the reasons
3 we want to do a pilot project, as you get feedback
4 from the users, when they identify areas of
5 difficulty what you do is you go in and you modify
6 the system and you try to effect a change that
7 will allow for coverage of those areas. Again, an
8 environment like the subway system, you know if
9 anybody sits in front of you, quite frankly, and
10 says that they can guarantee that there will never
11 be dead spots in that system going forward, I
12 don't know how they could do that from a laws of
13 physics perspective, quite frankly

14 CASWELL F. HOLLOWAY: Maybe just to
15 add to that, there are 427 stations in the MTA
16 system. I think 427 is the right number. 469?

17 CHAIRPERSON CROWLEY: I'm sorry,
18 how many?

19 CASWELL F. HOLLOWAY: Either 427 or
20 469. I used to know the number exactly. But each
21 station is different and it's not just a matter of
22 how the station is built. Stations that are, for
23 example, in proximity to other stations. If you
24 are at Grand Central, for example, and you have a
25 lot of trains moving at different levels: above,

2 below, left, right, the transmission and the
3 capability of the system to operate changes. Each
4 station in effect can present its own unique
5 challenges to full coverage, so to speak.

6 So I think that the continuous and
7 incremental improvement and having spent many
8 hours with Chief Dowd, and he's spent much more
9 time and out in the field down in the stations,
10 this is not just a matter of putting the right
11 piece of hardware up and then you have complete
12 coverage. You have to go station by station.
13 That's why we also do feedback from users. Each
14 configuration is unique.

15 CHAIRPERSON CROWLEY: Overview of
16 the current number of stations and the
17 difficulties that we have within and around our
18 subway system. If I could just wrap up with that
19 question, I feel that we don't have enough
20 knowledge.

21 First, everybody testifying today
22 should be aware of the study--if Don Stanton
23 testified five years ago that the FDNY was in the
24 process of doing a study, what those results were.
25 I understand that they found a number of dead

2 spots within the subway system and that they found
3 that it wasn't up to the level of communication
4 where you could guarantee safety within and around
5 our subway system.

6 So if that was done a few years
7 ago, it makes sense to at least know what the
8 findings were to move forward, because we can all
9 agree that our subway system is one of the number
10 one targets for terrorists. We have to do
11 everything we can do to make sure that if anything
12 was to happen within the subway system that we
13 could respond and communicate effectively.

14 CASWELL F. HOLLOWAY: Well, we will
15 certainly figure out which study that is and
16 provide it. But one thing that's happened between
17 the five years ago when Don testified and now is
18 that the Fire Department is actually on the new
19 system. They are operating on the new system.

20 And as somebody who participated in
21 the writing of the protocols for what the
22 maintenance obligations of the MTA would be, I can
23 tell you that if there are systems that go down,
24 because the MTA, it's the MTA system, so they
25 follow and track all of their stations. And they

2 will prioritize stations on the basis of things
3 that the FDNY needs. This system operating 24/7,
4 you could have an outage and it's kind of like the
5 power going out. If you have wind, lines can go
6 down. You can have water infiltrate an
7 underground power and the power goes out. So even
8 with the stations that operate, there is, I would
9 say, a very good working relationship now between
10 the MTA and the FDNY to ensure that that coverage
11 is there and is maintained.

12 CHAIRPERSON CROWLEY: Just to
13 clarify, when did that coverage begin when you
14 changed over from the VHF to the UHF?

15 CASWELL F. HOLLOWAY: 2009.

16 DON STANTON: [off mic]

17 CHAIRPERSON CROWLEY: Underground?

18 DON STANTON: [off mic]

19 CHAIRPERSON CROWLEY: Please
20 identify yourself.

21 CASWELL F. HOLLOWAY: That's Don
22 Stanton.

23 DON STANTON: [off mic]

24 CASWELL F. HOLLOWAY: We'll get you
25 the precise date. It was between 2008 and 2009.

2 We have a full calendar of what went live when. I
3 can be very precise about that.

4 CHAIRPERSON CROWLEY: Okay, good.

5 CASWELL F. HOLLOWAY: Commissioner
6 Stanton?

7 DON STANTON: [off mic]

8 CHAIRPERSON CROWLEY: Please come
9 up to the mic and if you can identify yourself.

10 CHAIRPERSON VALLONE: We can hear
11 you; it just doesn't get in the record.

12 CHAIRPERSON CROWLEY: Our
13 information from the transcript from 2006 states
14 that there was a vendor that the FDNY had
15 contracted with. The vendor was--it doesn't say--
16 it's engaged in a QA vendor to go out and assist
17 us and test the coverage and verify whether it
18 meets our operational requirements.

19 DON STANTON: Right. As part of
20 the implementation of the subway system, Gartner
21 was engaged, I think it might have been engaged
22 their DoITT, but they were a QA consultant that
23 was onboard and they assisted us with the
24 implementation of the system.

25 CASWELL F. HOLLOWAY: That is a

2 quality assurance consultant.

3 CHAIRPERSON CROWLEY: Oh, quality
4 assurance.

5 DON STANTON: I wasn't clear on
6 what report you meant, but if it was QA, that was
7 the vendor.

8 CHAIRPERSON CROWLEY: Can you
9 outline the findings of the report?

10 DON STANTON: I don't have them in
11 front of me. I can get them for you.

12 CHAIRPERSON CROWLEY: Okay. Do you
13 remember?

14 DON STANTON: The system was put in
15 and tested and it met the requirements that the
16 MTA had deployed. It doesn't cover every area, as
17 Chief Dowd had said, but compared to where Fire
18 was, we had absolutely nothing. So this brings us
19 miles ahead of where we were when this system went
20 live.

21 CASWELL F. HOLLOWAY: Can I just
22 ask with respect to the report and the findings,
23 we will certainly get them.

24 CHAIRPERSON CROWLEY: I won't ask
25 any more questions about the report. Thank you.

2 I'm going to move to a different topic: high rise
3 buildings and communication. Now, going back to
4 the hearing that was held in 2006, there were
5 findings that there were still communication
6 difficulties with the radios for firefighters to
7 the command center when they are in high rise
8 buildings. So what improvements have been made
9 since 2006 with those types of high rise emergency
10 situations?

11 ROBERT BOYCE: Well, naturally the
12 best would be an in-building high rise repeater
13 system. Some buildings in the city have that. We
14 have the cross band repeater system that we've
15 deployed, and increased the number of battalions
16 that have that from 9 to 13. Also, we have a
17 system with the post radios. So we have
18 considerable increase in high rise communications
19 in the last five and ten years.

20 CHAIRPERSON CROWLEY: At what point
21 would you need a repeater for a high rise
22 building, at what level of floors? Do you need
23 some help inside the building rather than just
24 communicating with your radios outside?

25 ROBERT BOYCE: Well, we take in the

2 post radios for any building over 75 feet.

3 CHAIRPERSON CROWLEY: About how
4 many floors is that?

5 ROBERT BOYCE: Seven or eight
6 floors. So we bring the tools in. If we're able
7 to communicate on point-to-point handy talkies, we
8 do that, but then if we can't, then we switch to
9 the post radios. If the post radios don't work,
10 then we go to the cross band repeaters.

11 CHAIRPERSON CROWLEY: You mentioned
12 that there are some buildings in the city with the
13 repeaters. Can you talk a little bit about where
14 those buildings are?

15 ROBERT BOYCE: I'm not totally
16 familiar with specific buildings have the in-
17 building repeater systems in that. We were
18 talking a little bit about that earlier, but...

19 DON STANTON: We have several
20 buildings. We have Seven World Trade was recently
21 put in. It's actually a very, very robust in-
22 building system with multiple redundancies. Some
23 of the Durst Buildings--I don't know, Steve, do
24 you have the address? I don't remember. Four
25 Times Square has an in-building system in as well.

2 There's a number of other buildings. I can
3 provide you a list if you'd like it.

4 CHAIRPERSON CROWLEY: So when you
5 have your command center, you know God forbid
6 there's an emergency outside one of these
7 buildings, the battalion chief or one of the
8 chiefs knows that they have this repeater system
9 in the building? There's knowledge of every
10 division in the city that these certain buildings
11 are outfitted with--

12 ROBERT BOYCE: [interposing]
13 Certainly the local battalions know and the
14 companies know that the buildings that they're
15 responding to, you know there's not that many of
16 them, so they know that there's been communication
17 issues before and the in-building repeater system
18 takes care of that.

19 CHAIRPERSON CROWLEY: Do you know
20 how expensive these repeaters are, the systems
21 that are put in? I'm curious to know why we
22 aren't putting these repeaters in all new
23 buildings if they help with communications.

24 DON STANTON: Actually the building
25 owners pay for the systems themselves. So if

2 they're willing to put one in for us, we provide
3 them with the specification and they build it to
4 that specification.

5 CHAIRPERSON CROWLEY: Do you have
6 an idea of how much of an investment the building
7 owners are making with these repeaters?

8 DON STANTON: Depending on the size
9 it could be pretty significant. Seven World Trade
10 was very significant.

11 CHAIRPERSON CROWLEY: Okay.

12 CASWELL F. HOLLOWAY: We could get
13 back to you with some of that information.

14 CHAIRPERSON CROWLEY: Hundreds of
15 thousands, millions?

16 DON STANTON: The systems range
17 between several hundred thousand to one to two
18 million dollars, depending upon the size of the
19 complex.

20 CHAIRPERSON CROWLEY: I understand
21 that you have these box radios because the
22 majority of the buildings in the city do not have
23 repeaters, right? And that somehow your
24 firefighters will run these up, these boxes--well
25 explain the process for us, if you can, for

2 buildings that are higher than 75 feet, how you
3 get to transmit information up to the floor where
4 the emergency is.

5 ROBERT BOYCE: Each of the
6 battalions has a post radio. It's a box radio, if
7 you will. It is 45 watts. The handy talkies are
8 two or five watts, just to give you a perspective
9 on how much more powerful they are. The mobile
10 radios, I believe, are 40 watts. So they're
11 significant tools that we didn't have ten years
12 ago.

13 The first and second battalions
14 bring the radios in. They put one at the lobby
15 command post and the second one is brought to the
16 floor or two floors below the operations floor,
17 the fire floor.

18 I'm sure you don't want to get into
19 specifics, who operates the radio, but it's a
20 command channel. So the fire floor and the floor
21 below people are talking on the regular handy
22 talkie, and then the operations post, which is the
23 floor below the fire, is communicating with the
24 lobby command post where the larger picture
25 decisions are being made.

2 So it's important to have
3 communications on the specific fire floor for
4 operations and then communications between
5 operations and the lobby command post for larger
6 decisions.

7 CHAIRPERSON CROWLEY: Right. In an
8 emergency, we're hoping that our fire engine or
9 truck is getting to the emergency within three or
10 four minutes. Is there a guarantee that our
11 battalion chief is getting there as fast with this
12 particular tool? My concern is how often do you
13 have firefighters running into emergency
14 situations where they're going higher than 75 feet
15 and they don't have this tool with them, which
16 would help with communications? They'll have to
17 wait for the battalion chief to get there. So how
18 often are you effectively able to implement your
19 plan versus how frequently you are not able to
20 communicate with first responders because you do
21 not have this tool with the emergency?

22 ROBERT BOYCE: Well, you're saying
23 response time is three or four minutes or
24 something. Nobody is getting up to upper floors
25 of a high rise building in three or four minutes.

2 It's just not happening.

3 CHAIRPERSON CROWLEY: How long is
4 it usually?

5 ROBERT BOYCE: I guess I can figure
6 it out, but I don't have that number in my head.
7 But by the time somebody gets dispatched from a
8 firehouse to the scene and then from the lobby up
9 to the fire floor in considerably more than that
10 time.

11 CHAIRPERSON CROWLEY: No, no, I
12 know. But you would, in most situations, expect
13 the truck or the engine to get there faster than
14 the battalion chief. So in the majority, I would
15 say 99.9 percent of the time, you have the engine
16 or the truck, you've got the firefighters going
17 into the building--

18 ROBERT BOYCE: [interposing] The
19 fire companies and fire units are instructed not
20 to get themselves in a position where they can't
21 communicate with the lobby. So it's very
22 important that they have a link between where
23 they're going to be operating and the lobby. It's
24 very important to get a communications link. And
25 the post radio is our tool.

2 CHAIRPERSON CROWLEY: So is that
3 the case where there is an emergency in a high
4 rise building, the first responding unit is going
5 to wait until the battalion chief is there before
6 they do--

7 ROBERT BOYCE: [interposing]
8 They're going to do what they have to do, but I
9 mean--

10 CHAIRPERSON CROWLEY: [interposing]
11 But you don't know. I mean what's the practice,
12 just so I know, we know. I mean--

13 CASWELL F. HOLLOWAY: [interposing]
14 Can we actually just get clarify on what the
15 question is?

16 CHAIRPERSON CROWLEY: My concern is
17 that there aren't enough of these type--my main
18 concern is that there's a lack and there's a
19 failure of communication in high rise buildings,
20 in the majority of high rise buildings in the City
21 of New York. Now, since September 11th, you and
22 the Fire Department has developed this post radio
23 which helps in communicating, as long as this box
24 is in or near the emergency, if it's above 75
25 feet. The majority of the time these boxes are

2 with the battalion chiefs. The battalion chiefs
3 are in each division, right, so they're not--you
4 don't have them as close to the scene of an
5 emergency as you would a fire engine or any fire
6 company.

7 So my real question is first do you
8 see this as an issue? Would it help you if
9 buildings were required to have these radios
10 onsite so you didn't have to wait for a battalion?
11 And two, how often do you have operations
12 happening by the time the battalion chief gets
13 there with the radio there are already
14 firefighters and emergency responders?

15 CASWELL F. HOLLOWAY: So to answer
16 that pretty complex set of questions, what I'd
17 like to do--

18 CHAIRPERSON CROWLEY: [interposing]
19 But they're all related, right?

20 CASWELL F. HOLLOWAY: Well, yes,
21 they're interrelated and complex. So what I'd
22 like to do, I mean data has to drive the answer to
23 a lot of those questions. I can tell you that
24 high rise incidents happen, and remember we're not
25 talking about the whole city here, right, we're

2 talking about basically the areas where you have
3 higher buildings.

4 What I'd like to do is set up a
5 session with you to go through what the data shows
6 in terms of these responses, whether or not we
7 think--it's really a question between do you have
8 an operational fix like the box or do you have
9 certain buildings or would it make sense to have a
10 requirement in certain kind of cases that the
11 infrastructure system be put in the building
12 itself. I'm not going to be able to give you a
13 precise answer to that question here. But what I
14 can commit to you to do is get the right people
15 together from the Fire Department, sit down with
16 you and go through the whole thing.

17 CHAIRPERSON CROWLEY: Okay.

18 CASWELL F. HOLLOWAY: And then we
19 can decide if there is--and I think the short of
20 it is the enhanced communication is always going
21 to be something that is preferred if it increases
22 your ability to operate safely, number one,
23 efficiently and deal with the emergency, whether
24 it's a fire or anything else. Whether or not
25 there is a change that would be sensible, having

2 said that, you know, you have to look at what is
3 the cost of the change and in fact what do the
4 data show in terms of our ability to put out a
5 fire or do anything else at one of these scenes.
6 So I don't want to avoid the question, but to
7 answer all of that, I think we're going to need to
8 do a little more work and get back to you.

9 CHAIRPERSON CROWLEY: I appreciate
10 that. Thank you, Deputy Mayor. I will not ask
11 any further questions on that subject. For now, I
12 won't ask any further questions. I'll recognize
13 my co-chair Peter Vallone?

14 CHAIRPERSON VALLONE: We've been
15 joined by Council Members Gentile, Garodnick,
16 Foster, Dilan, Brewer, Gennaro and Eugene. We
17 welcome the expertise that they bring here. I'm
18 going to just follow up quickly with a Fire
19 Department question, because my co-chairs and I
20 spent time preparing for this and one of the
21 things we learned, and Chair Crowley alluded to
22 this in her opening statement, that one of the
23 major problems that still exists in emergency
24 response is with our ambulances.

25 You have a vehicle locator system,

2 much like a GPS which is aware of where every
3 ambulance is at all times, and it can be around
4 the block from an emergency. You have a computer
5 dispatch system which is not compatible with the
6 vehicle locator system and does not know where the
7 ambulance is. So there could be an ambulance
8 around the block that is not dispatched to an
9 emergency because these two systems cannot
10 communicate with each other.

11 First of all, tell us why that is
12 occurring and what you're doing to rectify that.

13 CASWELL F. HOLLOWAY: I'm going to
14 start and then you can get the operational
15 perspective of Chief Boyce and Don Stanton from
16 the technical perspective. But first and
17 foremost, that is actually not the case. The EMS
18 dispatch system--there are two dispatch systems in
19 the Fire Department, EMS dispatch and then fire
20 dispatch which is the Star Fire System. AVL has
21 been deployed to EMS vehicles. That data, the AVL
22 data, is in fact compatible with and integrated in
23 the complex set of algorithms that go into
24 deploying ambulances in response. So it in fact
25 is integrated into the dispatch system.

2 The AVL locators for EMS are not
3 integrated into the Star Fire System, which is the
4 fire dispatch system. That is a separate system.
5 While we, I think, have done some piloting on AVL
6 there, we're also in the process--the Star Fire
7 System is actually about 30 years old and we are
8 in the process now, while it works fine and 911
9 response is perfectly fine, but we're looking at
10 whether it makes sense to continue to extend the
11 life of that system or replace it. So, you know,
12 the next generation will have that capability but
13 this one right now doesn't. So I just want to
14 clear that up to begin.

15 CHAIRPERSON VALLONE: I'm not
16 clear. So who dispatches the ambulances, the Star
17 Fire System?

18 CASWELL F. HOLLOWAY: No, EMS. The
19 EMS computer aided dispatch system.

20 CHAIRPERSON VALLONE: Is that aware
21 of where the ambulances are when they dispatch?

22 CASWELL F. HOLLOWAY: Yes. The AVL
23 data which is on each truck, ambulance, goes into
24 the system. I'm not sure, Chief Boyce or Don
25 Stanton, who is better to expound on this?

2 DON STANTON: The AVL data is
3 integrated as part of the EMS CAD system and the
4 location of the ambulance becomes part of the
5 recommendation of what ambulances to deploy.

6 CHAIRPERSON VALLONE: How long has
7 that been in place where those two systems are
8 communicating with each other?

9 DON STANTON: Five, six years.

10 CHAIRPERSON VALLONE: Well it's
11 interesting that the unions have exactly the
12 opposite information. So we'll have to work to
13 get to the bottom of this.

14 DON STANTON: On the fire side it
15 is not. As the Deputy Mayor said, on the fire
16 side, it is not integrated as part of Star Fire,
17 but on the EMS CAD it absolutely is.

18 CASWELL F. HOLLOWAY: The way that
19 resources are dispatched by the Fire Department is
20 you have--well, first EMS and Fire were co-joined
21 in 1996, right? Before that, they were separate
22 and there were two separate dispatch systems. The
23 dispatch and citywide there are three dispatch
24 systems: NYPD, FDNY and EMS.

25 AVL was deployed on ambulances.

2 The AVL data which tells you exactly where the
3 ambulance is located and factors into--you know,
4 where the ambulance is, is critical to which one
5 you deploy to get to the response as fast as
6 possible. That data is part of the recommendation
7 that gets made by the system through, you know,
8 the complicated set of algorithms and computer
9 programming that goes into how that resource gets
10 deployed. It is absolutely integrated and vital
11 to the dispatch of ambulances.

12 So I'm not sure which union data
13 you're talking about, which union you're talking
14 about, but it is integrated.

15 CHAIRPERSON VALLONE: The ambulance
16 union is one of them. They, I assume, would know.
17 So let me just ask then, are there times when the
18 fire dispatch dispatches an ambulance?

19 ROBERT BOYCE: No.

20 CHAIRPERSON VALLONE: Okay. We'll
21 have to take a look at that. Thank you. Let me
22 congratulate you on winning the best practice
23 model for governance structures that can enhance
24 emergency communications. As I said, we've done a
25 lot of preparation on this, as we always do. In

2 the past, we've always heard a lot of problems. I
3 have to tell you, other than a few minor ones,
4 like the one we just discussed, there is
5 overwhelming agreement out there that the city and
6 you guys in particular have done a heck of a job
7 improving our communications since 9/11.

8 Of course, there are problems, and
9 that's what we're here to discuss, but overall you
10 all deserve a lot of credit for the work you've
11 done to improve our communications.

12 Let start with CIMS. Deputy Mayor,
13 you started right out with that and said that that
14 is among the most important advance since 911, and
15 I couldn't agree more. In fact, we had one of our
16 most complicated and important hearings on the
17 implementation of the CIMS system here at the City
18 Council and it took months and months of
19 preparation. We interviewed people from around
20 the country on that. Overall, it's working very
21 well, as you said.

22 But we still have heard of
23 problems. One of the problems we heard about is
24 that, you know, the higher ups always say things
25 are going well and they usually are, but the foot

2 soldiers have told us that on too many occasions
3 there is no Fire Department representative at the
4 police command center or vice versa, no police
5 representative at the fire command center. In
6 fact, they told us as proof of that the Police
7 Department is constantly calling the Fire
8 Department for updates on the fire. They said
9 they would not have to do that if they actually
10 had a person at the location.

11 Much of that seems to be still
12 coming from the fact that there are separate
13 locations. The Fire sets one up, the Police set
14 one up and there is still some argument at that
15 level as to who should be in charge at certain
16 instances. Not all the time. But I'm told by,
17 again, a lot of people out on the street that this
18 is still happening. That there are
19 representatives that are not coming to each
20 other's command center and that there shouldn't
21 even be two command centers.

22 Are you aware of that? What is
23 being done to continue to improve the system? How
24 are you monitoring that?

25 CASWELL F. HOLLOWAY: Sure. Well,

2 I guess I'll start with the big question, which I
3 am not aware of a systemic problem with CIMS where
4 there is, you know, a high volume or a certain
5 type of incident where there is this separation or
6 confusion or the setting up of two commands.

7 CIMS, which was, as you point out,
8 the product of years really of development, is
9 something that was obviously decided and agreed to
10 by the managers and the people in command in both
11 agencies and then gets deployed. Everybody gets
12 trained on it when they come into the agencies.

13 There are circumstances; there are
14 incidents where there maybe has been confusion on
15 the ground. What's interesting is depending on--
16 what CIMS calls for is a unified command but it
17 identifies an incident commander, an IC. So
18 depending on the type of incident, and I don't
19 have the CIMS manual in front of me, so I don't
20 want to get too specific. But I'll tell you that
21 in certain operations, for example when life
22 safety operations end you could have a switch from
23 FDNY being the incident commander to NYPD being
24 the incident commander. I've sent that happen at
25 building collapses.

2 So the incident response is a fluid
3 thing. And CIMS is not designed to be rigid
4 system. It's a system that is designed to
5 facilitate communication and enable a response to
6 evolve, but you have the parameters within which
7 that response is going to happen. So I can't say
8 that there are never issues.

9 What do we do to deal with those
10 issues? There are after actions all the time.
11 OEM convenes the agencies to go over existing
12 protocols to CIMS, adding protocols to CIMS.
13 Following the Deutsche Bank fire, when we passed I
14 think with the Council's help, 12 pieces of
15 legislate to strengthen building safety and the
16 safety of those operations. We also looked at
17 CIMS and made some changes in CIMS for certain
18 kinds of responses, giving an enhanced role to the
19 Health Department for example. So this is not
20 just NYPD and FDNY.

21 I would be very interested to know
22 from you, whether it was anonymous or otherwise,
23 you know, and we have to figure out a way to get
24 the data, but I would be very interested to know
25 what information you have, because both

2 Commissioner Kelly, Commissioner Cassano,
3 Commissioner Bruno, you know in preparation for
4 this hearing, talked to each of them. And without
5 prompting, each of them talked about how important
6 CIMS is and that it is something that at the chief
7 and captain level is trained on and absolutely
8 happens. And now having had the opportunity to go
9 to a fair number of incidents myself, I can tell
10 you that's how it operates on the ground. No
11 system is perfect and we do evaluations. But I am
12 not aware of a systematic problem.

13 CHAIRPERSON VALLONE: As I said,
14 overall it has been working. It's a very
15 complicated system and there are always going to
16 be problems, but we did hear from both sides,
17 Police and Fire that they believe too many
18 incidences when the proper people were not at the
19 command center. What we'll do is we'll ask them
20 to inform us in the future if this occurs and then
21 we will ask you as to why that occurred and
22 perhaps we can all work to end this.

23 CASWELL F. HOLLOWAY: And I can
24 just invite you, I mean any time, not in the
25 context of a hearing, where incident specific

2 information comes to you, because sometimes after
3 something happens--and it can be simple. There
4 are a couple of instances too where first to
5 arrive is actually incident commander. So if
6 it's, I think, a car fire on a highway, for
7 example. So that, you know, you can have a
8 situation where--most of the situations it's
9 defined who the incident commander is. But I
10 guess what I was going to say is in any incident
11 specific information where you think it would be
12 helpful for us to know, we can do an evaluation of
13 anything; we just need to know about it.

14 CHAIRPERSON VALLONE: We'll work
15 with you on that. You mentioned chiefs and
16 captains. Back in 2006 you said that the only
17 people who had radios that were interoperable
18 between the departments--well it wasn't you--were
19 captains on the Police side and battalion chiefs
20 on the Fire side. Is that still the case? Or
21 have interoperable radios been given to more
22 people?

23 CASWELL F. HOLLOWAY: Chief Dowd?

24 CHARLES DOWD: So I think what
25 you're talking about with captain and battalion

2 chiefs and above, you're talking about the
3 interoperable frequencies. Those are the command
4 and control frequencies where captains and
5 battalion chiefs, all the way up to the Fire and
6 Police commissioners might need to communicate,
7 they would use those channels. But that's on a
8 command and control level.

9 Also, in the testimony we talk
10 about at an operational level, like for example,
11 EMS can utilize the police/fire frequencies now
12 for several years. They are authorized to be on
13 our police radios. In a tactical level, so for
14 example, you would have fire rescue and police
15 emergency service units operating on point-to-
16 point frequencies. So you have different levels
17 of interoperability requirement. We have
18 frequencies available at each level for them to
19 interoperate.

20 CHAIRPERSON VALLONE: So what is
21 the protocol then? Are the foot soldiers on each
22 side supposed to be communicating with each other?
23 Is that supposed to be done on a higher level?
24 What normally happens at a scene of an incident?

25 CHARLES DOWD: I would suggest that

2 the typical firefighter and cop on the street
3 don't have a requirement to interoperate. That's
4 more at a command and control level or an
5 operational level. But again, at the scene of a
6 rescue or an incident, fire rescue and police
7 emergency service officers, firefighters and
8 police officers that are assigned to those
9 specialized units would have the ability to
10 directly communicate and coordinate.

11 CHAIRPERSON VALLONE: Those
12 specific units?

13 CHARLES DOWD: Yes.

14 CHAIRPERSON VALLONE: When it comes
15 to other units, it's at what level can they
16 communicate?

17 CHARLES DOWD: Again, from a patrol
18 perspective because ambulances are out in the
19 field, as are police units kind of on patrol in
20 effect, they have the ability to communicate with
21 each other directly. And again, at the command
22 and control level at any incident where a police
23 captain or a fire battalion chief deems it
24 necessary, they can ask to utilize any of the
25 citywide interoperability channels to coordinate.

2 CHAIRPERSON VALLONE: I understand
3 the captain level. I'm a little confused as to
4 the lower levels when we're not talking about ESU.
5 You said the ambulance. What about police
6 officers and firefighters on the streets? I'm not
7 saying they should. I'm not taking a position.
8 I'd like to know what happens in a normal
9 situation.

10 CHARLES DOWD: They don't normally
11 communicate with each other. Again, because, you
12 know, we don't see operational necessity for them
13 to be able to communicate directly with each
14 other. At the scene of a fire, it's a fire
15 lieutenant or above that would be coordinating the
16 effort kind of on a team basis. And at the scene
17 of an incident with that, you would have at least
18 a police sergeant or above that would be
19 coordinating. So you wouldn't typically have a
20 situation where firefighters and police officers
21 need to communicate generally.

22 CASWELL F. HOLLOWAY: So just to be
23 absolutely clear, and I think Chief Dowd covered
24 this. So there is the tactical channel that is
25 available, particularly for the ESU on the police

2 side and then the unit on FDNY. All firefighters
3 have the ability on that channel. So the
4 interoperable ability, it depends on the
5 operation. And who deploys to the operation is a
6 matter of both within the agencies and CIMS how it
7 deploys.

8 I think maybe it's fair to say that
9 at this point the units that need to be able to
10 communicate to carry out an operation have that
11 capability. It is not the case that every line
12 police officer or firefighter has the ability to
13 switch to a channel and then start to talk to the
14 Fire Department because you'd have to ask yourself
15 well what would they be doing that for, because,
16 you know, there is a command and control element
17 to how you run the operation.

18 CHAIRPERSON VALLONE: Understood.
19 You mentioned the capability a lot in your
20 testimony. I assume that means it's happening.
21 But are you doing drills and in your experience is
22 there actually communication happening between
23 people who need to communicate on the scene,
24 between the different agencies on a regular basis?

25 CASWELL F. HOLLOWAY: I don't have

2 numbers, but Chief, do you want to?

3 ROBERT BOYCE: I don't have any
4 numbers either, but I could get the schedule for
5 you. We do pretty much on a regular basis,
6 interoperability drills. I was at one recently
7 with the Port Authority and NYPD underneath the
8 Hudson River type of drill.

9 CASWELL F. HOLLOWAY: I guess the
10 question though is when operations are out in the
11 field, are the battalion chiefs and the police
12 commanders communicating with one another? Chief
13 Dowd?

14 CHARLES DOWD: So there is a
15 standing protocol for several years now between
16 FDNY and NYPD that any two alarm fire or above
17 automatically dictates the availability of an
18 interoperability channel. Now, you know, the fire
19 commander and police commander may decide that
20 they don't need it. That's up to them. But it's
21 available to them in that situation or any other
22 situation as the protocol calls, when they need
23 it. Our communications people are in direct
24 communication with their communications people.
25 If they ask for it or if we decide we need to talk

2 to them, you know that's done instantaneously
3 through the two communications units and made
4 available to what would typically be a police
5 captain and a battalion chief, if they decided
6 they needed to speak to each other.

7 CHAIRPERSON VALLONE: Again, a lot
8 of if they decided and we have the capability.
9 Based on your experience, has this been happening
10 in the field? Is it working?

11 CHARLES DOWD: Yes. They do use
12 those channels. Maybe not as frequently as we
13 think, because again, a lot of what they're doing
14 when they get to the scene, and I think that's
15 already been stated here today, is the best form
16 of interoperability is face to face coordinated
17 command and control. So that channel is available
18 to them if they are remote from each other and
19 they do use it from time to time. But typically,
20 most of their communication at the scene of an
21 incident would be face to face.

22 CHAIRPERSON VALLONE: Okay. We'll
23 follow up on that. Let me move on to NYCWiN for a
24 moment. When that was rolled out in 2006, we
25 heard a lot. Songs were sung about its abilities

2 and firefighters would be downloading building
3 maps on the way to the fire and police officers
4 would be downloading actual photographs of the
5 suspects, rather than just descriptions over the
6 air and actual criminal records, so they'd know
7 how dangerous the person is. Commissioner, while
8 you've said you've witnessed some of this, the
9 foot soldiers on the street have told us that they
10 have never seen that happen. They've never
11 downloaded a building plan on the way to a fire or
12 got an actual picture of a suspect in a police
13 car.

14 So while potentially it's happening
15 occasionally, it's not happening overall. So
16 NYCWiN has been rolled out, it's a great thing.
17 Other city agencies are using it. But I believe
18 it's most important function is public safety and
19 that apparently is not happening up to the
20 capabilities that you have. Why is that?

21 CASWELL F. HOLLOWAY: Well, let me
22 start, I think it'd be good to summarize from NYPD
23 and FDNY the extent to which NYCWiN is being used
24 and we can go from there. Chief Dowd, do you want
25 to start?

2 CHARLES DOWD: This new technology,
3 and we discussed it earlier, NYCWiN primarily
4 right now we're using it on 1,200 patrol vehicles
5 to run license plates, name checks, VINs, that
6 type of thing. There is a photo manager
7 capability that's being rolled out that has not
8 been rolled out to everybody. It's only officers
9 that have the password. I don't have that number
10 for you right now. Pistol license--the software
11 application on the NYCWiN network--so, they can
12 run availability of information for that type of
13 thing. Supervisors can look at our CAD system,
14 the sprint system, they can look at the data from
15 our CAD system in the car over the NYCWiN system,
16 on those vehicles that are equipped with the
17 appropriate equipment.

18 CASWELL F. HOLLOWAY: Before we go
19 to FDNY, also counterterrorism is using NYCWiN,
20 and this is a demonstration that I got as recently
21 as yesterday, for license checks and other kinds
22 of streaming data. That is actually going to
23 dramatically increase in terms of the amount of
24 bandwidth that is being used for those purposes.
25 Don?

2 CHAIRPERSON VALLONE: Before we get
3 to the FDNY, let me just follow up. First of all,
4 you said that was rolled out in 2009. We heard
5 about this in 2006. Apparently it's only still
6 available to officers with a password. As far as
7 we've learned, we haven't run into any officers
8 with a password that have actually used this.
9 That's of great concern to us. This is a system
10 that we spent a lot of money on and we spent a lot
11 of time on. Officers on the way to a scene still
12 do not have the capability of getting a picture of
13 the suspect. When will every officer have that
14 capability?

15 CHARLES DOWD: Again, when you look
16 at this from the perspective of integrating these
17 software systems so that they can seamlessly give
18 that information. So we're developing and
19 deploying a new CAD system which should deploy by
20 the end of 2012 calendar year, the contract that
21 the NYPD has. Once we have that, we should be
22 able to integrate that with some of our other
23 database systems to deploy that information in
24 real time to officers on patrol. The average
25 patrol officer should have that capability. This

2 is one of the arguments that we've been making in
3 Washington now for the last three years.

4 The difficulty with, and this is no
5 criticism with NYCWiN, but the spectrum it
6 operates on does not give very much in-building
7 coverage. So from an operational perspective, we
8 would prefer to see our officers have the
9 capability to use a broadband system whether
10 they're inside, outside, wherever they are.
11 That's only going to happen if we get this
12 legislation passed in Washington which would then
13 allow us to utilize that spectrum to get more
14 coverage and more capabilities into the hands of
15 the average cop on the street.

16 CASWELL F. HOLLOWAY: I want to
17 just cover the timeline that you raised, Council
18 Member, because this is important, and I was
19 there, as was Steve. 2006 is when the project
20 kicked off. There was actually a contest between
21 two companies to provide this and then Northrop
22 Grumman actually won. They provided that for free
23 and then the winner actually got to implement the
24 system.

25 The system was accepted in 2009 and

2 it was actually on time in terms of its delivery,
3 major technology delivery. So now it's up and
4 running. I think that there continues to be and
5 will continue to be the migration of data
6 capability for public safety purposes and others,
7 but primarily public safety, to NYCWiN. I just
8 want to give Don the opportunity to talk about
9 FDNY.

10 DON STANTON: We're utilizing
11 NYCWiN in a number of areas. We have a special
12 unit that's assigned to our operation center that
13 goes out to large incidents and we're able to
14 transmit live video back from the scene to the
15 FDOC. We have NYCWiN modems installed on all our
16 fire boats for video as well.

17 About two to three years ago, we
18 implemented what we call EFAS, which is Emergency
19 Firefighter Accountability System, which allows us
20 to tie a mayday that's initiated by a firefighter
21 to the riding list and know exactly who that
22 person is, so the incident commander knows who it
23 is and it's also transmitted back to the FDOC so
24 they can look at that as well. We also use NYCWiN
25 to transmit on-scene tactical communications back

2 to the FDOC, which is another huge win for us.

3 CASWELL F. HOLLOWAY: I think the
4 video operating system, VOS, which I mentioned in
5 my testimony, is just one example of, you know the
6 ability on a dedicated network that is the city's
7 and secure, and the security of this is extremely
8 important, is usually valuable and as I say the
9 applications that are being used on the network
10 really continue to grow at a pretty fast rate.
11 We're happy to provide you more information about
12 exactly what's on the network, what's not and what
13 the plan is.

14 CHAIRPERSON VALLONE: Mr. Stanton,
15 can a firefighter on the way to a fire download
16 building plans?

17 DON STANTON: Not at this point,
18 no.

19 CHAIRPERSON VALLONE: Again, we've
20 done a lot of nice things with NYCWiN, but we were
21 told about some very simple uses for this in the
22 public safety sphere like downloading pictures of
23 suspects and downloading building plans, which
24 still have not happened. We've rolled it out to
25 all sorts of different agencies with all sorts of

2 capabilities. But those two, perhaps the most
3 important capabilities it could have, have not
4 been done. We will follow up with you as to when
5 exactly that will be done. We were not told in
6 2006 that we had to wait for a federal bandwidth
7 to get this done. We were told it was happening
8 and it hasn't happened. So we will follow up with
9 you on that.

10 DON STANTON: Really, the
11 cornerstone for that, Councilman, is the
12 electronic command board, which we've been working
13 on for a number of years. It's a direct result of
14 9/11 and that will be the focal point for the
15 downloading of building plans. We have been
16 working for the vendor Raytheon for a while. We
17 are having some issues regarding some
18 connectivity, but we're in the pilot stage now.
19 And once that's resolved we should look towards
20 getting floor plans out to the field.

21 CHAIRPERSON VALLONE: Any timeline?

22 DON STANTON: I'm hoping the pilot
23 gets wrapped within the next couple of months and
24 then we would look towards the building plans.

25 CHAIRPERSON VALLONE: Thank you.

2 I'm going to end soon. Commissioner Holloway, you
3 mentioned federal funding cuts.

4 CASWELL F. HOLLOWAY: Yes.

5 CHAIRPERSON VALLONE: Can you just
6 give us some details about how much has been cut
7 and what that means to us?

8 CASWELL F. HOLLOWAY: Sure. The
9 Homeland Security grant funding, USAI funding for
10 the urban areas that are the highest risk levels,
11 and we consider New York City to be at the top of
12 that list, is critical Homeland Security funding
13 that's enabled New York City to make investments
14 in addition to a substantial investment of city
15 tax levy dollars, by the way, into
16 counterterrorism.

17 And so while a final appropriation
18 hasn't been made, both the House and the Senate
19 bills that came out of committee for Homeland
20 Security funding, I believe the House one has
21 actually been passed. The Senate one is still in
22 committee--dramatically cut funding. I think in
23 the Senate case it's to \$400 million, and the
24 prior year--I'll have to get you the exact
25 numbers--but I think it was about \$600 million,

2 and it came down that year from \$800 million.

3 So, you're seeing a dramatic cut in
4 that funding. What does that mean for New York
5 City? Well, that funding is used for some
6 specific counterterrorism purposes, some of the
7 special units and the special assignments that
8 counterterrorism units have are funded directly
9 with that counterterrorism funding. There are
10 specific technology investments that are funded
11 through that funding. I can give you--I don't
12 have it with me--but a really more precise
13 breakdown of what the potential implications are
14 if the city either has to make that up, which in
15 this environment, as you know, is going to be
16 extremely difficult, or doesn't have the funding.

17 So, the good news is that last year
18 the Department of Homeland Security worked with
19 New York City and other big cities to ensure that
20 the funding, even though it was reduced last year,
21 went to the cities that have the highest risk. So
22 we were able to maintain the level of funding from
23 the prior year. This year, I don't see how that
24 could possibly happen, given that you're talking
25 about a couple hundred million dollars in cuts.

2 CHAIRPERSON VALLONE: They have not
3 reduced the number of eligible cities?

4 CASWELL F. HOLLOWAY: Well, the
5 number of eligible was reduced last year.

6 CHAIRPERSON VALLONE: Right, but
7 they haven't done that again?

8 CASWELL F. HOLLOWAY: They haven't
9 done that again, no.

10 CHAIRPERSON VALLONE: I've got a
11 bunch more questions, but I want to get to fellow
12 Council Members. I do need to get to our co-chair
13 though. Before I do, we've been joined by Council
14 Members Greenfield and Ulrich, who I'm not sure if
15 they're still here. Chair Cabrera?

16 CHAIRPERSON CABRERA: Thank you so
17 much to both of the chairs. Welcome. I just
18 needed some clarification. The 1,200 police cars
19 that have the passwords are able to do what again?

20 CHARLES DOWD: Currently there are
21 1,200 police cars that are available to run
22 license plates, names checks, run vehicle
23 identification numbers, license driver checks and
24 stolen article inquiries.

25 CHAIRPERSON CABRERA: Then you

2 mentioned that we needed more bandwidth in order
3 to penetrate the buildings, correct?

4 CHARLES DOWD: Well, the concern is
5 that the ideal spectrum for public safety is this
6 spectrum that public safety is pursuing down in
7 Washington, the 700 band spectrum. And to get in-
8 building penetration, we would really need that
9 spectrum in order to maximize coverage, say like
10 in this room. So, while the NYCWiN system gives
11 excellent and very reliable in-street coverage and
12 some in-building coverage, the spectrum itself
13 doesn't penetrate like the other 700 spectrum.

14 CHAIRPERSON CABRERA: How many
15 police cars do we have in the fleet?

16 CHARLES DOWD: Pardon?

17 CHAIRPERSON CABRERA: How many
18 police cars do we have?

19 CHARLES DOWD: I don't have that
20 number. I can get it for you.

21 CHAIRPERSON CABRERA: Is it close
22 to 15,000, 16,000?

23 CHARLES DOWD: The Police
24 Department? No.

25 CHAIRPERSON CABRERA: Less.

2 CHARLES DOWD: I think we're more
3 like 6,000.

4 CHAIRPERSON CABRERA: 6,000. So
5 why are the other vehicles, are they not equipped,
6 they just need the password, is it a software
7 issue?

8 CHARLES DOWD: Largely it's they're
9 not equipped. What we've been focusing on is the
10 patrol units; the typical patrol cars are getting
11 that connectivity first. Then as we go forward,
12 we would put it into other--and specialized
13 vehicles, like emergency service has that
14 capability in their trucks.

15 CASWELL F. HOLLOWAY: I'll just let
16 Steve Harte say a little bit more about this.

17 STEVEN HARTE: I think it's
18 important to note, to benchmark where we started.
19 The legacy NYPD data system, and if you compare it
20 to the old speed data when you have a dial up
21 modem in your home, remember with 56k, the old
22 speed data system was 19.2 kilobits compared to a
23 dial up modem at 56 kilobit, compared to the
24 hundred times the speed that the network NYCWiN
25 supports in the police vehicle and other modems in

2 the field.

3 It's very important to note that
4 speed and time and data transactions are critical.
5 So we have the ability to not only deploy the old
6 applications that were text based at a much
7 greater and faster speed, but we also have the
8 ability to access broadband applications where the
9 old network at 19.2 kilobits you would bring it to
10 its knees. So that's number one.

11 Number two, the network was built,
12 again, to provide a very reliable in-street
13 coverage with limited in-building communications.
14 But Chief Dowd mentioned ESU emergency service
15 units, it's very important to note that the
16 stories that are coming back to us are that lives
17 are being saved. That brings a lot of reward to
18 us to know that emergency service units have the
19 ability now to access what's called their sprint
20 terminals and to actually, before a job is
21 actually dispatched over the radio, already be en
22 route to save lives.

23 In addition to that, the ability to
24 press a button, and we could follow up with
25 demonstrations to locate and display the actual

2 GPS coordinates of the caller. So that if, in
3 fact, a caller is not necessary on a road, or is
4 on a bridge, you know a jumper, they have the
5 ability now on their terminals, with this enhanced
6 capability that their old system could not handle.

7 CHAIRPERSON CABRERA: This is what
8 I don't understand. If the system is capable of
9 doing everything that the Chief mentioned, which
10 is incredible, why can it not handle what Council
11 Member Vallone is mentioning that was promised in
12 2009?

13 DON STANTON: So, in 2009 the
14 system was accepted, which began a very methodical
15 process to onboard agencies onto NYCWiN. Included
16 in that was the primary getting the police cars
17 and specialized units on the system as well as
18 other agencies, so we actually are ahead of goal
19 with regard to meeting our objectives of bringing
20 that capability on. Once they are on, they could
21 now roll it out in a meaningful manner with
22 department protocols.

23 CASWELL F. HOLLOWAY: I know the
24 list of the things, and so some of the things that
25 have been said where we are doing it, like live

2 feed video to the FDNY operations center and the
3 patrol cars, the licenses and other information
4 about people, so building plans. I mean, I think
5 one thing to remember is in order to do that it's
6 really two projects that get brought together.
7 NYCWiN is a network. NYCWiN is not content.
8 Plans are content. So there is a separate effort,
9 and I don't have the information on exactly where
10 that stands, although the control board that
11 you're talking about, Don is going to give you
12 some capability there, but in order for the
13 network to actually basically be able to accept
14 that content and download it, that's not a
15 problem. The question is where are you pulling
16 the content from?

17 While we have not--we do not yet
18 have a repository citywide of electronic building
19 plans, there's some developments there that we do
20 have. There will be some data that's available.
21 NYCWiN was never intended to actually build that
22 database. It does have the capacity to transmit
23 that information. I can give you more information
24 on what plans are available and what content is
25 available to be used over NYCWiN.

2 CHAIRPERSON CABRERA: Since we're
3 talking about NYCWiN, does the sharing of NYCWiN
4 among several city agencies cause congestion when
5 public safety officials need to use it? If it
6 does, what's the protocol?

7 STEVEN HARTE: So NYCWiN was built
8 with very strong encryption capability as well as
9 the robustness of its coverage as well as backup
10 capabilities to handle pretty much any situation.
11 So, as part of the network we've implemented
12 what's called quality of service, otherwise known
13 as QOS, to be able to prioritize traffic over the
14 network.

15 So in times, if there were--again,
16 in public safety, what you'll notice is--and this
17 is another example as to why commercial networks
18 are not reliable in times of emergencies. There
19 is a convergence of traffic when there is an
20 emergency. So it could be a citywide event that
21 causes congestion or overload condition or a
22 convergence in a particular area. So the network
23 has quality of service implemented in and Police
24 and Fire have the highest priority on the network
25 over, let's say, a building inspector.

2 CHAIRPERSON CABRERA: How does
3 NYCWiN work when you have a power outage?

4 STEVEN HARTE: So again, every
5 element of the network, citywide across all sites
6 and backup data centers and network operation
7 centers, are either on generator or have a minimum
8 of 24 hour plus battery backup. In instances,
9 over the past several years, we've actually
10 survived 36 hours of battery backup in particular
11 areas. You know, various storm conditions in
12 Queens or in Staten Island. So again, the network
13 is performing to specification and actually
14 exceeding our backup power capabilities.

15 CHAIRPERSON CABRERA: Let's say you
16 had an earthquake, God forbid, let's say you had a
17 massive earthquake and you had a power outage that
18 would last, let's suppose three or four days,
19 would the system still work?

20 STEVEN HARTE: So, in fact, during
21 the last hurricane as well as we had specific
22 sites that were down for several days, and we had
23 deployed portable generators to various
24 facilities, and that's part of our disaster
25 recovery program. It addresses your exact

2 question, which is we would deploy portable
3 generators and/or replacement batteries to
4 facilities to extend the operation.

5 Again, the intelligence and
6 monitoring of the entire network is done 24 hours
7 a day, again throughout the entire year.

8 CHAIRPERSON CABRERA: Beautiful.
9 Let me just go back to the subways. Is there such
10 a thing as a portable repeater?

11 CASWELL F. HOLLOWAY: Is this for
12 the Fire Department?

13 CHAIRPERSON CABRERA: Yes, for the
14 Fire Department.

15 ROBERT BOYCE: There are portable
16 repeaters, yes.

17 CHAIRPERSON CABRERA: Do we have
18 sufficient to cover the potential blind spots?

19 DON STANTON: Well, the deployment
20 of a portable repeater isn't necessary productive
21 when you always have a repeater system in place,
22 because if you have both repeaters coming up at
23 the same time, you could cause more problems than
24 it's worth. So right now the basic coverage is on
25 the stations and on the tracks. And as I said

2 before, prior to us going live we had absolutely
3 nothing. So this is a huge improvement from a
4 firefighter safety and communication capability.

5 CHAIRPERSON CABRERA: So just for a
6 point of clarification. If you enter part of a
7 subway section that you have a blind spot, nothing
8 is working there; can you take a portable repeater
9 there so the system can work?

10 DON STANTON: Again, to just plop a
11 portable repeater isn't going to be conducive to
12 the environment. But operations have certain
13 plans in place when they don't have communication.

14 CHAIRPERSON CABRERA: Here's my
15 last question because I want to give an
16 opportunity to the rest of the members that are
17 here. Today, I think it was the 23rd Street
18 station, people have access, they can use their
19 cell phone in the subway. My question was, in
20 your estimation, and I'm sure you vetted this,
21 does it pose any safety concerns or challenges.

22 STEVEN HARTE: It's a very exciting
23 opportunity to extend cell phone service into the
24 subways. In fact, our agency has been very
25 involved with the company that has been deploying

2 that. In fact, one of the requirements is
3 obviously that number one they don't cause any
4 interference to any other public safety systems
5 that are down there. Two, the ability for people
6 to be able to call 911 and the ability at times,
7 you know the city utilizes various cell phones, to
8 incorporate that into maybe some of our emergency
9 operations plans where we know a particular cell
10 phone company that we could get priority service
11 to utilize would be of help to that. In addition,
12 we're in discussions potentially about expanding
13 our broadband wireless capabilities on that same
14 platform into the subways.

15 CHAIRPERSON CABRERA: You don't
16 have any concerns that somebody may use that
17 system for evil?

18 DON STANTON: I can't answer that.

19 CHARLES DOWD: I think just in
20 general there's always the expectation and we've
21 seen this around the world where subways have been
22 attacked. There is that possibility. We have
23 plans in place already. I don't want to go into
24 detail--

25 CHAIRPERSON CABRERA: [interposing]

2 You don't have to.

3 CHARLES DOWD: --to mitigate that
4 problem if it were to occur. Again, one of the
5 reasons why we want a dedicated network is that if
6 we had to shut down commercial networks because of
7 the type of thing you're describing, we would
8 still want to have our capability in the subway.

9 CHAIRPERSON CABRERA: Beautiful.
10 Thank you so much.

11 CHAIRPERSON VALLONE: Thank you.
12 We're going to go to Council Member Halloran.

13 COUNCIL MEMBER HALLORAN: Thank
14 you, Chairs, I appreciate it. Chiefs,
15 Commissioner, Deputy Mayor, it's good to see you
16 here. I'm going to be the technical geek in the
17 room for a minute.

18 Is it your testimony that the city
19 is allowing a private company to come in and run
20 UHF lines because that's what the digital cell
21 phone network is and we didn't require them
22 simultaneously to allow repeater ability in those
23 same lines for your equipment throughout the
24 subway systems while we're allowing them to use
25 the tunnels created by the City of New York for

2 the transportation of its citizens to put in their
3 commercial product.

4 CASWELL F. HOLLOWAY: So your
5 question is the, I guess the franchise right that
6 you give a private company to lay lines, are we as
7 a condition of that franchise requiring them to
8 meet our technology requirements?

9 COUNCIL MEMBER HALLORAN: Mr.
10 Deputy Mayor, the City of New York is allowing a
11 private company to come in to our subway lines to
12 lay lines for AT&T, Verizon and whatever other
13 companies will be serviced--

14 CASWELL F. HOLLOWAY: [interposing]
15 Commercial information--

16 COUNCIL MEMBER HALLORAN:
17 [interposing] --multibillion dollar industry and
18 we didn't include in that contract in the
19 foresight as they're doing this tunnel by tunnel
20 so that we don't have to spend the money later.
21 We didn't think to include a requirement since
22 they're using UHF 800 megahertz bands on these
23 cell phones to create simpatico with our network
24 of needs for our public safety personnel while
25 we're doing this. I mean am I the only person in

2 the City of New York who thought about this before
3 we signed a contract with a private company? Or
4 am I just the absurd councilman from Northeast
5 Queens?

6 CASWELL F. HOLLOWAY: I think it's
7 important to note this is an MTA RFP, an MTA
8 project. It wasn't actually brought forth until
9 most recently that connectivity would be required
10 in the streets to bring various telecommunication
11 services in. So I would say that the MTA, this
12 would be more of a question for them. However, at
13 the beginning of their project, it was not brought
14 forth that a franchise would be required.

15 COUNCIL MEMBER HALLORAN: I'm once
16 again stunned by the lack of foresight that my
17 city has as billions of dollars are expended as
18 public services are being utilized by private
19 companies. I'm a card carrying Republican, so for
20 me to be saying that I think is pretty sad
21 commentary.

22 Let me continue then to ask in the
23 ten year plan of the last fiscally adopted budget
24 of the Police Department, a quarter of that
25 budget, \$177.9 million was slated for

2 communication equipment. Is any of the
3 communication equipment that's slated to be
4 purchased in this ten year plan designed for the
5 next generation?

6 In other words, are we looking
7 forward now in these communication investments
8 that we're making to looking at different forms of
9 communication? Maybe using SHF as opposed to UHF,
10 which penetrates buildings better, looking to
11 piggyback and have dual or tri-band equipment that
12 can work with our WAN and LAN systems that are
13 being used to piggyback signals? Are we giving
14 any thought to the next 15 minutes in the city's
15 future or are we just guying equipment that's
16 going to be outdated as soon as we purchase it?

17 CHARLES DOWD: So the answer to
18 that is the proposal to support legislation in
19 Washington that you folks are taking under
20 consideration. You know, that legislation is for
21 exactly that. The City of New York--and I've been
22 down to Washington I don't know how many times on
23 this issue to discuss the need for public safety
24 broadband capability, not just in the City of New
25 York but across the nation.

2 So the only way we're going to be
3 able to do that is if Congress assigns enough
4 radio spectrum that's public safety appropriate
5 for us to do that. So the next generation of
6 public safety communications in our view in the
7 city and the Mayor has been a strong supporter of
8 this is broadband capability. The only way to do
9 that seamlessly and then have full nationwide
10 interoperability is if this gets designed from
11 jump street as a system that takes into account
12 all the thoughts that you just mentioned which is,
13 you know, what do we need to do on this and who
14 needs to be able to talk to who and what
15 capabilities can you have?

16 We could go all day on this
17 subject, but the bottom line is there is a major
18 effort inside of public safety nationally to
19 ensure that the next generation of public safety
20 communications allows us to be able to do whatever
21 capability we want to be fully interoperable with
22 whoever comes to the City of New York. So if it's
23 firefighters from Chicago, or we have to go to
24 Chicago, they don't have to think about whether
25 their device will work. Police officers who go to

2 Los Angeles or to Iowa don't have to think about
3 their device working, it would work.

4 COUNCIL MEMBER HALLORAN: And the
5 FBI agents and all of the others. I appreciate
6 that, and nobody, Chief, supports the NYPD more
7 than my chairs do, and myself, we're 100 percent
8 behind you having the technology you need and the
9 money that you need. I know the Police Department
10 is doing a lot with 6,000 fewer officers and it's
11 not easy.

12 My question, though, and it still
13 comes back to how significantly we're really
14 looking at the long term plan. I'm sure you can
15 share my exasperation at thinking that there's a
16 private company going to be snaking through the
17 city subway system to put in communication lines
18 for cell phones but nobody thought simultaneously
19 to require them to consider our needs in public
20 safety while they were getting this wonderful
21 franchise opportunity.

22 So, as we look at the \$85 million
23 for portable radios in the budget this year that
24 was allocated over the ten year plan, Chief, can
25 you tell me, was that number based on current

2 technology equipment or are we looking to the
3 future? Are you looking at trying quad band or
4 just dual band equipment at this point when we
5 talk that there's going to be an \$85.5 million
6 portable radio improvement plan going on? Is that
7 concrete or are we talking about waiting to see if
8 federal money ever evolves on one hand and if
9 federal legislation ever permits the use of the
10 higher band frequencies?

11 CHARLES DOWD: A very complicated
12 question, so let me do the best I can to answer.

13 COUNCIL MEMBER HALLORAN: That's
14 what I do.

15 CHARLES DOWD: Okay. The answer is
16 that the older LMR technology that we use today,
17 in our view over time is ultimately going to go
18 away for the most part. So the goal here, again,
19 is to migrate into broadband technology, not just
20 for data capabilities but also for voice
21 capabilities.

22 To do that and to be fully
23 interoperable the way public safety views this
24 nationwide, we're going to need that spectrum and
25 we're going to need some sort of funding mechanism

2 to get this built out.

3 NYCWiN is an example of an effort
4 to do that, which has been very successful for
5 what it was designed to do which was in the street
6 coverage. But we need to go beyond that. The
7 only way we're going to be able to go beyond that
8 is if we get this other chunk of spectrum.

9 There's still an unfunded mandate
10 out there from the FCC that requires narrow
11 banding. The NYPD has not done that yet. There
12 is a waiver process in place at the FCC today
13 which would allow us to argue that we don't want
14 to spend \$100-\$300 million to narrow band the
15 NYPD's radio system when we see the future of
16 public safety communications as broadband.

17 So that's an argument that we're
18 making in Washington. I think New York City has
19 been absolutely at the forefront of that argument
20 for the last three or four years.

21 COUNCIL MEMBER HALLORAN: I don't
22 want to criticize the Mayor on that issue because
23 I know on that issue, on technology, he's been out
24 in front. But, you know, UHF was gone to
25 originally because it penetrated buildings and New

2 York City is a building-centric place. You know,
3 VHF is better. You need a longer antennae but it
4 runs fine as long as there's open space.

5 Broadband and then higher spectrum actually has
6 even better penetration ability.

7 So, again, my concern is looking
8 forward, as is your concern, but things like the
9 fact that we have a surcharge on our Verizon cell
10 phone for 911 service in New York City. We have
11 that surcharge. It's there. It would have been
12 very easy for us to sit down and talk about a
13 surcharge if necessary to the franchisor who went
14 in and is putting the system in the subway. I
15 think that would have solved a lot of problems,
16 would have given us a lot more flexibility, would
17 have given us a lot of safety.

18 One other question regarding the
19 NYPD's ability to operate in buildings, I know
20 we've talked a lot about the Fire Department,
21 always concerned about the Fire Department. But
22 the Police Department runs into the same problem.
23 If you have a hostage situation on the 47th floor,
24 you aren't getting communication above the 75 from
25 central, right? So what is the Police Department

2 doing in the same situation that the Fire
3 Department is concerned 75 feet up in the air of
4 not having communication?

5 CHARLES DOWD: So the answer to
6 that is that our in-building coverage is
7 excellent. Since we use radio a little
8 differently than the Fire Department, you know
9 individual teams of police officers, two officers
10 assigned to a car, use network frequencies. The
11 higher you go in a building, the better network
12 frequencies operate. So we haven't really had an
13 issue in high rises because of the density of our
14 coverage and the number of sites that we have on
15 our existing land mobile radio system.

16 So I would argue that as a police
17 radio system ours, you know in LMR technology, is
18 as good as anybody's from a coverage perspective,
19 both in-building and in-street obviously.

20 Now there's always areas where
21 you're going to have difficulties and everybody in
22 public safety knows that. If you go four floors
23 down in a building, you're going to have problems.
24 But overall the in-building coverage is excellent
25 on that system.

2 COUNCIL MEMBER HALLORAN: Again, I
3 did that sort of to bring you around to the Fire
4 Department's argument of why they need the box and
5 everything. Well if it can work in the Police
6 Department side of things, why can't we get it to
7 work on the Fire Department side?

8 CHARLES DOWD: You're asking me
9 that question?

10 DON STANTON: As Chief Dowd said
11 Fire and Police do operate differently. The
12 Police Department has a significant infrastructure
13 in place that Fire does not. We recently had the
14 channel 16 infrastructure in place which gives us
15 good in-street coverage. But the way we operate,
16 the point-to-point tactical in-building
17 communications and the post radio pretty much
18 effectively meets our communication needs.

19 COUNCIL MEMBER HALLORAN: I just
20 would suggest that a dual band radio that gave you
21 the ability to tap the UHF repeater system the
22 Police Department uses would be a backup safety
23 mechanism for our firefighters. Certainly we
24 don't want to risk lives when we don't need to. I
25 still think there are other options in terms of

2 mobile technology to have in-pack systems,
3 portable repeaters in each battalion beyond the
4 box.

5 I think individual firefighters
6 could be designated as a radio man, much as the
7 military has individual radio operators who can
8 carry a relatively small battery powered device
9 which would enhance radio communications inside of
10 a building. There's a myriad of technological
11 things that are out there that I don't think we're
12 exploring.

13 But Deputy Mayor, I appreciate your
14 new position and all of the things you're doing to
15 sort of make sure that things happen for us. I
16 just would really like you to go back to the Mayor
17 and have a conversation about the fact that we're
18 laying these lines in the subway system and we
19 really gave no forethought to enhancing the rest
20 of the communications for our public safety
21 people.

22 CASWELL F. HOLLOWAY: We're
23 certainly going to take that under consideration.
24 I just want to point out, because you've raised
25 this point throughout your questioning, I mean

2 you're talking about a franchise that was granted
3 to a transit company, right. You know, the
4 franchise concession review committee gives out
5 franchises for substantial sums for all kinds of
6 technology that's laid into the right of way. As
7 a general matter, while there are plenty of
8 requirements that have gone along with those
9 franchises, and it's not just for laying wire, you
10 know we don't have commercial providers as a
11 general matter build our safety and security
12 networks.

13 Now, I'll certainly look at this
14 case. I don't know the details of this franchise
15 agreement, but these franchisees certainly do pay
16 sometimes substantial sums of money for the right
17 to use the right of way. You know whether or not
18 there's a particular safety enhancement that could
19 be considered as a condition of the franchise, I'm
20 not sure about that, but we'll certainly look at
21 it.

22 COUNCIL MEMBER HALLORAN: Mr.
23 Deputy Mayor, I appreciate that very much. It
24 goes back to the general planning and direction of
25 our city. Con Edison, Verizon dig up the streets

2 right after the city has paved them. There is no
3 consideration for the fact that we just go through
4 a paving cycle and then the roads have to get
5 ripped up. Instead of having a unified plan for
6 them laying their lines when the city has a
7 convenience so that we don't duplicate or
8 triplicate efforts that we're not redundant in how
9 we do things.

10 And I agree they're paying enormous
11 sums for the franchise because they're going to
12 make an enormous sum on the back end. So please
13 let's not pretend that they're paying it out of
14 some goodness in their heart. They're doing so in
15 the good corporate American spirit of capitalism
16 to make money.

17 Well, if they're going to use my
18 public ways to make their money, I think they have
19 an obligation to me as a citizen. Call me crazy,
20 but that sounds like a reasonable thing to do. I
21 appreciate your testimony. I appreciate the
22 input, and I yield back to the chairs.

23 CHAIRPERSON VALLONE: Thank you.
24 Council Member Gentile?

25 COUNCIL MEMBER GENTILE: Thank you

2 to the Chairs and thank you to the Deputy Mayor
3 and the whole staff that came today. I wanted to
4 follow up on some of the questions or the line of
5 questions that were just asked. This is in regard
6 to firefighter safety in the tall buildings.

7 We heard a great deal about the
8 technology that you are now employing and talking
9 about. But if you look at it, you talked about
10 the cross band repeated system, and you indicated
11 in the cross band repeater system two things.
12 One, you mentioned a couple of buildings that have
13 this cross band repeater system: Seven World Trade
14 Center, Four Times Square, and you also indicated
15 that these systems are dependent on the property
16 owner to install.

17 So in effect, this new system is
18 really not something that we can depend upon
19 because it's in so few buildings. And it is up to
20 the property owner. I've heard no testimony that
21 we were requiring by administrative fiat or if it
22 requires legislation, let us know. I've not heard
23 of anything other than it's up to the property
24 owner to put it into a building.

25 So, you go from the cross band

2 repeater system and you look to the box radios
3 that you've testified about. Those box radios are
4 dependent upon being in the battalion that has
5 those radios. You're saying now that that has--
6 I'm sorry, I'll correct that. The cross band
7 system now is in 13 battalions. So if you're not
8 in one of those 13, then that's not even a
9 consideration. The box radios, you have to wait
10 for the battalion chief to show up with those box
11 radios. Those are the 40 watt radios.

12 So, in effect, without really
13 having a cross band repeater system, except for
14 those few buildings, and having to wait for a
15 battalion chief to show up with the 40 watt box
16 radios, you're really now back again to the 2-5
17 watt walkie talkies that the firefighters are
18 dependent upon in these tall buildings.

19 So, really how far have we gotten
20 ten years after 9/11, when we're really talking
21 about, first and foremost, those walkie talkies
22 and then maybe the battalion chief comes with the
23 box radio and then maybe somewhere along the line
24 there's one or two buildings that have the cross
25 band repeater systems.

2 ROBERT BOYCE: I'm sorry, sir, if I
3 wasn't clear. You're talking about a couple of
4 different things. The in-building repeater
5 systems are the ones in maybe a dozen buildings in
6 the city. So that's like Seven World Trade
7 Center. That's in-building repeater systems.

8 The cross band repeater system is
9 in 13 battalion chief's cars. If one of those
10 cars is out of service for a reason, they have a
11 spare. At any significant high rise building
12 fire, you generally have at least four battalions.
13 One of those four battalions cross band repeaters
14 are going to be in service. So it doesn't have to
15 be--

16 COUNCIL MEMBER GENTILE:

17 [interposing] So it's in the car?

18 ROBERT BOYCE: It's in the car.
19 Yeah, the cross band repeater system is in the
20 vehicle. You mentioned about the post radio or
21 the box radio--

22 COUNCIL MEMBER GENTILE:

23 [interposing] The box radio.

24 ROBERT BOYCE: I don't know where
25 that term came from. But all the battalions, all

2 49 battalions in the city plus the rescue
3 battalion, the safety battalion, field com, they
4 all have the post radios. The divisions have
5 their own post radios. So it's a very robust
6 system, like 60 or 70 post radios. So there's a
7 significant robust system there.

8 There was one other question? I
9 know I'm touching them all.

10 COUNCIL MEMBER GENTILE: So what
11 you're saying is that at least at each tall
12 building fire there is going to be a post radio in
13 one of the battalions.

14 ROBERT BOYCE: You need at least
15 two. You need one in the lobby and one in the
16 operations post, which are upper floors.

17 COUNCIL MEMBER GENTILE: Well, a
18 system, there will be a system available at--

19 ROBERT BOYCE: [interposing] Well,
20 the procedure is you've got to communicate between
21 the two radios. At any significant fire, a 10-76,
22 you're going to have at least four battalion
23 chiefs and a division chief responding. So
24 there's five radios there. Those aren't in the
25 vehicles. Those are portable. If one of those

2 goes out of service, we have spares. So, all the
3 battalions and divisions have the post radios.

4 COUNCIL MEMBER GENTILE: So you're
5 saying the picture is better than what I at least
6 understood the first time?

7 ROBERT BOYCE: Yes.

8 CASWELL F. HOLLOWAY: Maybe to
9 amplify that, I think that you asked a big picture
10 question, so where are we really ten years after
11 9/11. I think we are in a substantially better
12 place in terms of within each of these agencies
13 and with the Fire Department specifically in terms
14 of the ability to communicate at high rise fires.
15 Certainly in the subway, as we talked about, FDNY
16 is on the UHF system. And then between these
17 agencies and all the other agencies, we are in a
18 much, much better place.

19 I'd like to suggest what I
20 suggested to Chair Crowley, which is that these
21 investments are, as a general matter, complicated
22 and they tend to be expensive.

23 COUNCIL MEMBER GENTILE: What does
24 the box radio cost, or whatever you call it, the
25 post radio?

2 CASWELL F. HOLLOWAY: I'll get back
3 to you on the specifics. But we already know that
4 the box radios are deployed to all the battalions.
5 So I mean that's 100 percent coverage plus spares.

6 If there is an investment in a box
7 radio or if there is a building code requirement
8 or if there is a--additional cross repeaters that
9 are needed, or if there is an enhancement that can
10 be made by piggybacking on some other
11 infrastructure here, then certainly we should do
12 that.

13 I think answering that question
14 though really depends on taking, I think, a deeper
15 dive into: well, we know the general response
16 time, what are the response time to the high rise
17 fires, are we finding that the communications are
18 a problem in particular instances? I can tell you
19 that I am unaware of a significant communications
20 problem as a categorical matter at a high rise
21 fire.

22 So, now having said that, I'm sure
23 Commissioner Cassano would be happy to have
24 additional resources. But I can commit to you
25 that after this, we will do some homework on our

2 end, sit down and actually look at this very
3 specific question, because I think it is fairly
4 narrow. Is there an enhancement to the high rise
5 building communication ability that should be made
6 or are we as a general matter, based on the data,
7 pretty comfortable with where we are? And then
8 maybe to Council Member Halloran's point, you
9 know, what's next? How long is that technology
10 going to last and is there a next generation that
11 we should be thinking about?

12 I'm committed to go through that.
13 I'm not sure that it makes sense to continue to
14 talk about it here. I think we need more data.

15 COUNCIL MEMBER GENTILE: I
16 understand your point, Mr. Deputy Mayor, but I
17 think one of the aspects of the new generation of
18 what's next is something that I've not heard any
19 testimony on today, but you have looked at.

20 And I'm curious to know, this
21 system known as radio frequency IDs, the RFIDs
22 that would pinpoint the location of a trapped
23 firefighter in a tall building, or any building
24 for that matter without any communication on the
25 part of the firefighter to any radio control. It

2 would be on the uniform of the firefighter and
3 that would pinpoint the location of any trapped
4 firefighter, so we don't run into situations like
5 we had with Firefighter Beddia or Firefighter
6 Graffagnino at the Deutsche Bank Building.

7 That technology has been studied
8 and studied and restudied by the FDNY since at
9 least the Deutsche Bank Building fire. But I've
10 heard no testimony about that today.

11 DON STANTON: Councilman, a couple
12 of things. The Fire Department is currently
13 piloting an RFID project. It's for identifying
14 firefighters that are actually on a rig and
15 responding to an incident. One of the issues we
16 had on 9/11, it was during a shift change. So
17 there were a lot more people that responded than
18 normally would have. So that's actually being
19 piloted.

20 With regard to in-building
21 tracking, we've been looking at this for years.
22 We've had some of the more major companies come in
23 to us, from Raytheon, Northrop Grumman, Hewlett
24 Packard, and they just cannot demonstrate a system
25 that effectively pinpoints where a firefighter is.

2 They pretty much have the x and y axis down, but
3 that z component which actually shows the floor
4 that they're on, they have not been able to solve
5 it. And we've been talking to Homeland Security.
6 We've been involved with some of the pilots that
7 they've been putting forth. We just have not seen
8 a solution that would work for us yet.

9 COUNCIL MEMBER GENTILE: As to your
10 point of using the RFID on the rigs themselves, I
11 think that's more of a personnel issue than a
12 safety issue of who's on the rig at what time.

13 DON STANTON: If I could? I would
14 agree. But also, if the RFID, which I believe
15 will somehow be the solution in the future for
16 some type of firefighter locator, getting those
17 RFID tags in the bunker gear sooner than later I
18 think puts us ahead of the curve.

19 COUNCIL MEMBER GENTILE: And so
20 you're saying that there is no RFID technology at
21 this point that works in those buildings?

22 DON STANTON: Not that I'm aware of
23 that will locate a firefighter within three feet
24 or so. Obviously, you can't see in a smoke filled
25 room. As far as I know there is not a solution

2 that is viable for us. If you're aware of one or
3 you have a company that believes they have a
4 solution, we'd be more than happy to talk to them.

5 COUNCIL MEMBER GENTILE: But that
6 process is continuing?

7 DON STANTON: It's ongoing.

8 COUNCIL MEMBER GENTILE: Mr.
9 Chairman, I just had one other question and then I
10 will yield. Mr. Deputy Mayor, you had mentioned
11 about looking at the command centers for FDNY and
12 NYPD. Is it the case that they set up separate
13 command centers?

14 CASWELL F. HOLLOWAY: There is a
15 unified command that is established where
16 representatives and the incident commander and
17 then the high ranking representatives from each of
18 the agencies that is present are and conduct the
19 operation.

20 Now, in certain circumstances,
21 depending on the size of the operation and the
22 magnitude, I have seen the setup of other areas
23 where more personnel can be operating. For
24 example, at a big water main break, you often set
25 up a separate table that's not right by the

2 incident command, depending on the kind of
3 materials you're looking through. Sometimes, for
4 example, it's a matter of how many valve turns you
5 have to do and to get the valve turned you have a
6 certain thing that you bring out. It's getting
7 more and more electronic.

8 But what I'm describing here is you
9 could go to a scene, just in case anybody decides
10 they're going to go to an incident response, and
11 you may see more than one table set up, more than
12 one setup of personnel. But there is a unified
13 command at each of these incidents where the
14 people running the operation from each agency are
15 co-located.

16 COUNCIL MEMBER GENTILE: So are you
17 suggesting that what Council Member Vallone was
18 speaking about hearing from the troops on the
19 field about different command centers is really
20 what you just described?

21 CASWELL F. HOLLOWAY: Well, I don't
22 want to speak for whoever has given this anecdotal
23 information. What I'd rather do is get a little
24 more information about the specific incidents. It
25 could be. It could be the case. No system is

2 perfect and, you know, it could be the case in a
3 certain operation that there was some confusion
4 about how the setup was supposed to work. But I
5 need to know more about the specific response.
6 But as a general matter, the unified command is
7 the place from which face to face, person to
8 person, the responding agencies run the operation.

9 COUNCIL MEMBER GENTILE: Thank you,
10 Mr. Chairman. Thank you, all.

11 CHAIRPERSON VALLONE: Thank you.
12 We have to finish up with this panel relatively
13 quickly because we have one more panel and we have
14 to be out of the room by 1:00. I have just two
15 quick questions. You discussed the Fire
16 Department system of potentially knowing who's on
17 a rig at one time. Chief Dowd, back in 2006, you
18 testified that there was also a project in place
19 for police officers to each get an individual
20 radio, which they could press a key and then you
21 would know exactly who was on what scene. Again,
22 that was 2006, so where are we with that project?

23 CHARLES DOWD: So you're talking
24 about what we commonly refer to as unit ID. We
25 have a system in place that allows us every time a

2 police officer keys up their radio, there is a
3 computer system located at our electronic section
4 in our radio shop which will show exactly who just
5 keyed up and the duration of the transmission.

6 So we can track back who made what
7 transmission. It does not give location data, but
8 it identifies the individual radio that's assigned
9 to the individual police officer.

10 CHAIRPERSON VALLONE: Why would
11 they key up or not key up?

12 CHARLES DOWD: Well, in just the
13 normal course of operations if they're
14 transmitting. So when they key up the radio. Let
15 me clarify, keying up means pushing to talk. I
16 apologize. I'm thinking you know all these terms.
17 So I apologize. So, every time they would push to
18 talk, it registers on this system and tell us
19 whose radio that was.

20 CHAIRPERSON VALLONE: In that way
21 you've been able to cut down on the clutter that
22 was also a problem after 9/11?

23 CHARLES DOWD: 9/11 and the issue
24 of unauthorized transmission that we have
25 problems, that any agency has problems with from

2 time to time. We can address them by knowing
3 which radio transmitted.

4 CHAIRPERSON VALLONE: One of the
5 last recommendations was that fact that land lines
6 when down on 9/11 due to Verizon problems. Back
7 in 2006 you testified about a microwave system
8 that you were going to implement to circumvent
9 that problem. Can you give us an update on that?

10 CHARLES DOWD: That's been done in
11 phases. I think we're up to and completed what we
12 would characterize as phase three. What that uses
13 is if you look at the blackout, we rely on Verizon
14 or a phone company for back call with their T1 and
15 T3 lines. So what we've done is we've built kind
16 of a network, kind of a spider web network of what
17 they call microwave hops from one spot to another
18 for back call of radio systems.

19 What that does for us is microwave
20 is more reliable. And in an instance, let's say
21 like the hurricane which wasn't that bad,
22 everything went well that time, but if you had a
23 blackout scenario again where you started to lose
24 your commercial connectivity, these microwave
25 sites, which are generator protected, would back

2 call the radio transmissions for you so you have a
3 more reliable infrastructure for that.

4 CHAIRPERSON VALLONE: Is phase
5 three the last phase or is it--

6 CHARLES DOWD: [interposing] You
7 know what, I think there might be one more, and I
8 will get the details for you for that. But we've
9 expanded it from just our citywide frequencies.
10 We've now pushed it out into each geographic
11 borough so that the local precinct frequencies, at
12 least in a number of cases, would be available to
13 work even if the commercial back call were to
14 fail. I think we have one microwave phase to do
15 to extend that a little further.

16 CHAIRPERSON VALLONE: Council
17 Member Brewer?

18 COUNCIL MEMBER BREWER: Thank you
19 very much. In a recent article, Wayne Barrett was
20 actually very complimentary of the Mayor and the
21 work that's being done, obviously blaming the
22 Republicans for wanting to send much of the
23 spectrum to the commercial buyers.

24 But my question is in fact the bill
25 passes in Washington in some form, can you just be

2 specific, in addition to the communication that
3 exists now, how would that legislation help to do
4 some of your agenda items?

5 CHARLES DOWD: Well, again, what
6 that does is that solves a whole host of problems.
7 First of all, one of the reasons that it's very
8 difficult for public safety to be interoperable is
9 that everybody is in different radio spectrums.

10 COUNCIL MEMBER BREWER: I'm aware
11 of that.

12 CHARLES DOWD: So while we've done
13 a lot here locally to solve that problem, if you
14 had to go outside the New York region, our
15 communications equipment is useless and vice
16 versa. So it's solving that interoperability
17 problem so that our devices in broadband would
18 work no matter where you went. If people had to
19 come to support us in New York, as we found out on
20 9/11. But then it's also giving you all these
21 other capabilities: streaming video, data. So
22 it's an information sharing capability far beyond
23 what we use today. That's part of it. Although
24 NYCWiN does a lot of it now, that spectrum would
25 not be interoperable with anything on a nationwide

2 basis. That's why we need that bill passed.

3 Again, the goal here is to make sure that we're
4 fully interoperable nationwide.

5 Now, as to who supports this, there
6 are some Republicans that are unconvinced, but I
7 have to point out that Peter King and Michal Grimm
8 from Staten Island are strong supporters of the
9 legislation.

10 COUNCIL MEMBER BREWER: Okay. My
11 other question is again in the same article Wayne
12 Barrett talks about the TCU [phonetic] and the
13 fact that the police have this frequency. I know
14 you talked about it a little bit, Cas, but how
15 does the Fire Department access. Can you be
16 specific on that?

17 CASWELL F. HOLLOWAY: I spoke to
18 Mr. Barrett.

19 COUNCIL MEMBER BREWER: He said so.

20 CASWELL F. HOLLOWAY: Yes. It was
21 a fine conversation.

22 COUNCIL MEMBER BREWER: It's always
23 a fine conversation with Wayne Barrett. I've
24 known him for 40 years. Go ahead.

25 CASWELL F. HOLLOWAY: Yes. The

2 station is programmed on their radios. So it's
3 simply a matter of, you know, depending on the
4 particular situation, following the right protocol
5 to inform--I don't know if it's through incident
6 command, Chief Boyce you can maybe describe
7 exactly how the TCU channel gets activated in a
8 specific circumstance.

9 ROBERT BOYCE: First, let me just
10 say very few incidents, thank God, is a need for
11 police and fire to be communicating with each
12 other. That's first off.

13 Say in a building collapse and PD
14 has resources and Fire has resources that are
15 working on the pile and they need to communicate.
16 It's simply a matter of changing a channel from 1
17 to 13 on the Fire and I'm not sure on the PD. It
18 would have to be some kind of communication, a
19 conscious decision to go to TCU so we can operate
20 interoperability. But general speaking, like
21 Chief Dowd alluded to earlier, you know Fire is
22 going to have their processes and PD is going to
23 have their processes, what they're going to be
24 doing on the pile. Very infrequently is it
25 necessary to have the interoperability.

2 CASWELL F. HOLLOWAY: But it's
3 there. Going to that frequency is really a
4 decision that would happen through incident
5 command. So it's something that that the
6 capability is just a dial turn away. I think a
7 lot was made in that article about the
8 characterization of it as a request from FDNY to
9 NYPD. It's really if the incident requires that
10 that communication happen, it can be
11 instantaneous.

12 COUNCIL MEMBER BREWER: We've had a
13 lot of hearings in Technology, when I chaired it
14 over the years, on the training issue for officers
15 and firefighters and OEM on technology. What's
16 the ongoing training for some of these discussions
17 that we're having here today, if any, or if it's
18 necessary?

19 CHARLES DOWD: I don't have the
20 details. I can certainly get that all for you.
21 But, you know, we have an in service training
22 program in the Police Department, so any time a
23 new capability or a new procedure comes into
24 place, whether it's communications related or
25 otherwise, or technology related, that information

2 is pushed out through the police academy to the
3 in-service trainers in each precinct to train
4 officers. If it's more complex, they're brought
5 into the police academy for training.

6 COUNCIL MEMBER BREWER: How much do
7 police officers use their own cell phones to deal
8 with some of these issues as opposed to some of
9 the outlines that you've given us here today?

10 CHARLES DOWD: You know, that's all
11 anecdotal, so I'm not sure.

12 COUNCIL MEMBER BREWER: A lot.

13 CHARLES DOWD: Probably. And I'll
14 tell you why, because the younger officers are
15 more comfortable with the technology. That's why
16 we're making the argument in Washington that says
17 come on, let us do this, because they'll jump all
18 over this capability.

19 COUNCIL MEMBER BREWER: Because
20 they do use their cell phones a lot, that's what
21 they tell us, to do some of these things. In
22 terms of NYCWiN, that's again a topic that I'm
23 familiar with, having known when it first started
24 at half a million. Can you give us some idea of
25 how much it's cost in the last few years to

2 implement NYCWiN? Maybe it was a million when it
3 started?

4 CASWELL F. HOLLOWAY: Steve?

5 COUNCIL MEMBER BREWER: I remember
6 going to Northrop Grumman, touring the facilities.
7 Steve knows this. Go ahead.

8 STEVEN HARTE: Hi, nice to see you.

9 COUNCIL MEMBER BREWER: Billions.

10 STEVEN HARTE: How are you?

11 COUNCIL MEMBER BREWER: I'm fine.

12 STEVEN HARTE: The initial five-
13 year contract was \$500 million, of which
14 approximately \$358 million was to build the
15 infrastructure which since we've expanded a great
16 capability across the entire city, practically all
17 city agencies. And roughly, again at the last
18 City Council budget hearings, the details were
19 provided on the budget, roughly \$40 million a year
20 to run. The five-year renewal that we just
21 negotiated saved approximately \$52 million over
22 the original contract renewal value. So the first
23 renewal, which was five years was registered at
24 \$207 million.

25 COUNCIL MEMBER BREWER: \$207

2 million per year?

3 STEVEN HARTE: No, for five years.

4 COUNCIL MEMBER BREWER: \$207
5 million for five years to run?

6 STEVEN HARTE: Yes.

7 COUNCIL MEMBER BREWER: How many
8 agencies are involved with that? I know DEP. We
9 tried to get the Port Authority. How many
10 agencies are actually using it?

11 STEVEN HARTE: 29 agencies.

12 COUNCIL MEMBER BREWER: That's just
13 city agencies or some state?

14 STEVEN HARTE: City only agencies.

15 COUNCIL MEMBER BREWER: Is there
16 any suggestion to go beyond that?

17 STEVEN HARTE: Yes. We've had a
18 number of discussions with the MTA and to
19 implement a couple of pilots. There's traffic
20 signal priority which has been a joint effort
21 between DOT and the MTA. I would also like to say
22 one of the critical applications and anchor
23 applications has been the city's advance traffic
24 control system, which is run out of the JTMC, out
25 of Long Island City.

2 Again, a collaborative effort
3 between New York State DOT, New York City NYPD as
4 well as New York City DOT to ensure that the
5 roadways are clear and response is immediate. So
6 a number of great press events around Midtown in
7 Motion have been made by the Mayor as well as
8 4,000 units to date deployed on the city's
9 intersections. Over the next year, we'll be up to
10 10,500 intersections where the city can maintain
11 the health of the city's traffic control system as
12 well as respond immediately at the touch of a
13 button to change traffic patterns for evacuations
14 or response to planned events or emergencies.

15 COUNCIL MEMBER BREWER: Just a
16 final question. In terms of the other police
17 departments and emergency situations for other
18 than just New York City, I know we're not like
19 some cities that have five or six layers and don't
20 know how to communicate, but what is the actual
21 communication system? Not just with NYPD and Fire
22 and OEM, but some of the other, Port Authority and
23 so on, within the metropolitan region? That's
24 always been an issue for past hearings. I know it
25 will work when we have broadband, but we don't

2 have the spectrum.

3 CHARLES DOWD: So the answer again
4 is the same difficulty is there that is on a
5 nationwide basis, which is disparate spectrum. So
6 we have longstanding protocols with New York State
7 Police, MTA, Port Authority of New York and New
8 Jersey. They are authorized to be on our
9 frequencies in the City of New York on our
10 citywide frequencies and even on our division
11 frequencies depending on the need, and Nassau
12 County, the same thing. So they're authorized in
13 emergency situations to go on to our frequencies
14 if they need assistance.

15 From a command and control
16 perspective, they're all part of the local
17 structure we have set in place for public safety
18 response, NIMS, CIMS that allows them to operate
19 also on our command and control interoperability
20 channels, on our 800 system, Steve, right? So
21 they have the capability to talk on all those
22 systems. But in some cases, quite frankly, they
23 have to be carrying more than one device and
24 sometimes three devices in order to be able to do
25 that. That's the problem with the difficult

2 spectrum.

3 COUNCIL MEMBER BREWER: Thank you.

4 CHAIRPERSON VALLONE: Thank you,
5 former chair Brewer, it's good to have your
6 expertise here. My last question and I wish I had
7 20 minutes on this but we don't because we have
8 one more panel. One of the things Ray Kelly
9 testified was one of our biggest needs is a backup
10 911 system. Commissioner, can you update us on
11 PSAC II?

12 CASWELL F. HOLLOWAY: Yes. Since
13 coming back to City Hall, I have had conversations
14 with Commissioner Kelly, Commissioner Cassano and
15 the people who are all moving this project
16 forward. PSAC II is part of ECTP, the Emergency
17 Communications Transformation Project. Phase one
18 is the co-location of PD, FD and EMS all in a
19 single call center. We're just about there with
20 that project.

21 PSAC II is under construction. If
22 you go up to right off the Hudson River Parkway,
23 you'll see a foundation for the building that will
24 be the city's backup 911 call center. In fact,
25 the way we envision it operating is to do load

2 balancing to some extent so that you're actually
3 always running some volume of calls through PSAC
4 II.

5 I think as the committees probably
6 know, an effort has been underway to try to
7 contain some of the costs of the building. That
8 exercise is just about complete. I don't have all
9 of the details in front of me right now. But
10 construction is continuing and will continue. I
11 can get back to you with more specific data on the
12 timeline.

13 I guess what I was leading with is
14 the reiteration of the importance of the backup
15 911 system by Commissioner Kelly and Commissioner
16 Cassano has been made clear to me. And so we're
17 moving forward.

18 CHAIRPERSON VALLONE: When it comes
19 to the first phase that's not even done yet.
20 They're supposed to all be on the same floor and
21 they're not. I believe the police are already up
22 on the third floor but fire is not because the
23 system is still--

24 CASWELL F. HOLLOWAY: [interposing]
25 Other way around.

2 CHAIRPERSON VALLONE: The other way
3 around? So the Fire is up on the third floor and
4 the Police are not yet because the Vesta
5 [phonetic] system is unreliable. When is that
6 going to be rectified?

7 CASWELL F. HOLLOWAY: Well, we have
8 had successful testing over the summer of the
9 Vesta system. Now, NYPD is in the middle of
10 training. Once that training is complete, they
11 will actually move into the third floor.

12 Just a little bit of context here,
13 the 911 system is obviously perhaps the most
14 important public safety system that there is. So
15 before cutting over to a brand new system for PD
16 and FD--and FD by the way is operating on the
17 system--but once PD comes over, obviously the
18 whole volume of 911--the majority of volume of 911
19 calls comes from the PD system. It was important
20 that we did a bunch of what are called large
21 network system testing to ensure that the system
22 can deal with volume.

23 Now, Vesta had problems. In fact,
24 the software was not operating in a way where we
25 had confidence that it could handle those large

2 volumes. We worked with Verizon. First of all,
3 we haven't made a payment to Verizon in a very
4 long time because it's a milestone based delivery
5 and they haven't delivered the working Vesta
6 system.

7 However, our judgment, and this is
8 a judgment that has been throughout the life of
9 the project, is that we did have ultimately
10 confidence that Verizon was willing to make the
11 investment and could as a technology matter solve
12 the difficulty with Vesta. It's taken a long
13 time. However, we weren't going to switch over to
14 a new 911 system until we knew the new one was
15 going to work.

16 So we have successfully tested it
17 and in fact Verizon built a lab here to do much
18 more intensive testing of every upgrade. As you
19 know, with these systems, once 911 goes live for
20 the new Vesta system, it's not going to be static.
21 There will continue to be updates. And the
22 system, you know we lived with the old 911 system
23 for what, since 1968?

24 CHARLES DOWD: '95.

25 CASWELL F. HOLLOWAY: '95 and then

2 before that. So we expect to be with this system
3 for a long time and for it to continue to evolve.
4 So, on the one hand it has taken longer than
5 anyone has wanted for these agencies to be co-
6 located.

7 However, we have, I think, really
8 held Verizon's feet to the fire as a contract
9 matter. And I can tell you, having been
10 intimately involved and no re-involved in the
11 final phase of part one, I think we are going to
12 have confidence when we go in there that this new
13 system is going to be able to function as required
14 to ensure the safety of New Yorkers.

15 CHAIRPERSON VALLONE: I can follow
16 up on that for 20 minutes, but we can't. So part
17 two, completion date?

18 CASWELL F. HOLLOWAY: In terms of
19 what the date is, I think the latest date was
20 2013. I'm just not sure if that's slipped. So
21 I'm going to have to come back to you with a
22 specific timeline.

23 CHAIRPERSON VALLONE: Okay. I'm
24 going to turn it over to Chair Crowley to ask a
25 question and finish up. Before I do, I just want

2 to, again, say we've pointed out some things that
3 we see are problems. I want to remind you of what
4 I originally said. We believe you've done an
5 excellent job overall in making improvements since
6 9/11. As you said, we are substantially safer and
7 have substantially better communications than we
8 did since then overall. It's our job to point out
9 these improvements that still need to be made.

10 Chair Crowley?

11 CHAIRPERSON CROWLEY: Thank you,
12 Co-chair Vallone. Since my co-chair brought up
13 the subject, I just want to revisit with a few
14 questions about your emergency call taking center.
15 Public Safety--PSAC, Public Safety--

16 CASWELL F. HOLLOWAY: [interposing]
17 Answering Center.

18 CHAIRPERSON CROWLEY: Answer
19 Center, which is part of the emergency call
20 taking--

21 CASWELL F. HOLLOWAY: [interposing]
22 Emergency Communications Transformation Project.

23 CHAIRPERSON CROWLEY: Gotcha. So
24 the last I heard that there was some contracts
25 held by the Comptroller's Office in terms of the

2 construction of PSAC II in the Bronx. Was that?

3 CASWELL F. HOLLOWAY: One second.

4 I want to get back to you with details on that. I
5 believe that there was an agreement in terms of
6 the full registration amount and how much we were
7 going to move forward with as an initial matter.
8 The system is integrated for PSAC II which is
9 Northrop Grumman. I can tell you Northrop Grumman
10 is on the ground. They are working.

11 CHAIRPERSON CROWLEY: In the Bronx?

12 CASWELL F. HOLLOWAY: Actually, I'm
13 not sure where. Northrop Grumman is the systems
14 integrator. The building is not finished yet, and
15 in fact it's not somewhere where you could work.
16 You have construction trailers there for the
17 construction of the building itself. I'm not
18 exactly sure where Northrop has its team staffed
19 but I can get back to you with that.

20 CHAIRPERSON CROWLEY: Okay. I
21 heard news reports that it was in a flood zone,
22 they weren't sure they were going to continue the
23 construction there.

24 CASWELL F. HOLLOWAY: No, we're
25 continuing there.

2 CHAIRPERSON CROWLEY: You are
3 continuing to--

4 CASWELL F. HOLLOWAY: [interposing]
5 We are continuing there, yes.

6 CHAIRPERSON CROWLEY: Although you
7 don't have a completion date--

8 CASWELL F. HOLLOWAY: [interposing]
9 I just don't want to get it wrong. So I want to
10 get you the schedule. We have a schedule.

11 CHAIRPERSON CROWLEY: Today, you
12 have your PSAC I in Brooklyn.

13 CASWELL F. HOLLOWAY: Correct.

14 CHAIRPERSON CROWLEY: And you have
15 the Fire Department operating center also nearby.

16 CASWELL F. HOLLOWAY: We have two
17 communication COs for FDNY and they're backup for
18 the FDNY. And then there's backup at One Police
19 Plaza as well.

20 CHAIRPERSON CROWLEY: At an
21 undisclosed location somewhere in Queens too? Is
22 that true for the Fire Department?

23 CASWELL F. HOLLOWAY: If it's
24 undisclosed, it's undisclosed to me.

25 CHAIRPERSON CROWLEY: Well, just

2 for reassurance purposes, if God forbid there was
3 an attack right in that area in Brooklyn, where is
4 the Fire Department command center? Is there
5 another place? Do they have backup?

6 CASWELL F. HOLLOWAY: Don?

7 DON STANTON: Right now we have
8 Queens CO is the backup. So Queens would stay
9 where they are and Brooklyn and Staten Island
10 would go there. The Bronx is the backup which is
11 currently manned, and Manhattan would go there.
12 So effectively, if we had to vacate 11 Metro Tech,
13 there are places for us to go so we can dispatch.

14 CHAIRPERSON CROWLEY: And you also
15 have interoperability in Lower Manhattan at One
16 Police Plaza for all the agencies to work with OEM
17 if there was some type of attack or malfunction in
18 Brooklyn?

19 CHARLES DOWD: Currently the backup
20 911 center is One Police Plaza.

21 CHAIRPERSON CROWLEY: Okay.

22 CHARLES DOWD: That has been
23 upgraded to the same level of call taking
24 positions and technology that exists at the
25 current 911 center in Brooklyn.

2 CHAIRPERSON CROWLEY: To further
3 clarify a question that was asked by my co-chair,
4 Council Member Vallone about your system that
5 Verizon has with the phones. What's that?

6 CASWELL F. HOLLOWAY: Vesta.

7 CHAIRPERSON CROWLEY: Vesta. Now,
8 most of today's hearing concentrated on
9 communications within the city agencies. But
10 there are difficulties, especially in times of
11 emergencies for regular people who are calling in
12 911 emergencies to get through. Especially, you
13 know, if we look back just in recent months, there
14 are two incidents that come to mind. One, the
15 snowstorm and another incident was a tornado, that
16 microburst that happened. I, myself, tried to get
17 through on 911 and couldn't, when I saw a fire
18 happening in my community.

19 So I have concern about a system
20 that currently isn't together or working as well
21 as we would like it to work. Was that a
22 malfunction of the Verizon system?

23 CASWELL F. HOLLOWAY: I'm sorry,
24 was which a malfunction?

25 CHAIRPERSON CROWLEY: When 911

2 calls are made, those emergencies that don't go
3 through properly. No 911 call taker picks up and
4 says "what's your emergency?"

5 CASWELL F. HOLLOWAY: So
6 distinguishing between two things. The first is
7 right now NYPD is operating the 911 call takers
8 and they are the intake for the vast majority of
9 calls and including a high volume of the fire
10 calls in fact is coming through currently the
11 first floor of Metro Tech, the 911 system that is
12 currently in place. So that would be an issue,
13 any incident specific problems with getting
14 through to 911 would be a volume or other issue
15 with that, which the chief will speak to in a
16 second.

17 What you're hitting on, though, is
18 exactly why this cutover has not yet happened.
19 Probably more than any other single technology
20 issue or maybe any issue that I've worked on when
21 I was at City Hall before and now back is Vesta.
22 Can Vesta--and the specific question of volume--
23 can Vesta handle the volume that 911 could see in
24 the event of a major incident?

25 When Verizon first presented the

2 system to us to accept the answer to that question
3 was no. Then we did another test. We did, in
4 fact, a whole series of tests. We had them build
5 a lab and we've had the top officials of the
6 company in and out. I can tell you now it's not
7 for lack of resources that this isn't yet
8 finished. The good news is we've successful
9 tested; the network large system test was
10 successful. Now, it's a matter of training a
11 couple thousand police personnel to be able to
12 move into the new place.

13 CHAIRPERSON CROWLEY: Let me just
14 clarify.

15 CASWELL F. HOLLOWAY: But your
16 question was about getting through to 911.

17 CHAIRPERSON CROWLEY: I won't
18 forget the question.

19 CASWELL F. HOLLOWAY: Yes.

20 CHAIRPERSON CROWLEY: But now you
21 have a system where Vesta is able to take all the
22 volume coming in?

23 CASWELL F. HOLLOWAY: Vesta has
24 been successfully tested so that it can take the
25 volume. We have not cut over to the system yet,

2 the new system.

3 CHAIRPERSON CROWLEY: What's the
4 delay, just training?

5 CASWELL F. HOLLOWAY: Training and
6 getting everybody into the system. Believe it or
7 not, it's a multi-month process to do because
8 first you have to train the people who are going
9 to train. Then the trainers train the
10 supervisors. Then you train the second line
11 supervisors. Then you train all the line call
12 takers.

13 CHAIRPERSON CROWLEY: Right. So
14 there's a timeline in that process. But the good
15 news is that you've had a breakthrough and that
16 this system can handle the volume.

17 CASWELL F. HOLLOWAY: Yes.

18 CHAIRPERSON CROWLEY: You don't
19 have to change and create a new system.

20 CASWELL F. HOLLOWAY: Yes, correct.

21 CHAIRPERSON CROWLEY: That's been
22 tried and tested and it hasn't failed.

23 CASWELL F. HOLLOWAY: Correct. It
24 was successful--

25 CHAIRPERSON CROWLEY: [interposing]

2 This is serious just because--

3 CASWELL F. HOLLOWAY: [interposing]

4 Absolutely--

5 CHAIRPERSON CROWLEY: --only a few
6 months ago, I mean we were lucky there weren't
7 even more serious emergencies. There were a
8 number of serious emergencies during the snowstorm
9 but there could have been more--

10 CASWELL F. HOLLOWAY: [interposing]

11 Well let's go back to that because that's the
12 current 911 system.

13 CHAIRPERSON CROWLEY: Right.

14 CASWELL F. HOLLOWAY: Chief Dowd,
15 do you want to speak to that?

16 CHARLES DOWD: There's a difference
17 between whether a system is working and whether a
18 system is overloaded. So the reality is that as
19 efficient as we think we are in answering 911
20 calls, there comes a point where the calls are
21 delayed in answering the volume gets extremely
22 high, like in a 9/11 incident or for example the
23 earthquake--

24 CHAIRPERSON CROWLEY: [interposing]

25 Right, but that's with the current system. We

2 have a system that we know is successful which is
3 the Vesta system and you tried and you were able
4 to figure out a way where you just need to train
5 people and the system will, one day in the near
6 future, be able to handle volume?

7 CHARLES DOWD: Yes, in the say way
8 that the old system effectively handles volume.

9 CHAIRPERSON CROWLEY: But that
10 doesn't give me reassurance.

11 CASWELL F. HOLLOWAY: But the way--

12 CHAIRPERSON CROWLEY: I'm sorry.
13 We don't have much time and there's going to be
14 another panel and we have to be out of the room by
15 1:00.

16 CASWELL F. HOLLOWAY: I want to
17 clarify one thing because I think I understand
18 where you're going. And I'm going to go then back
19 to you Chief. Even with the new system, which has
20 successfully tested, it is still testing a high
21 volume that could it potentially be exceeded. I
22 mean no system is going to ever be deployed; I
23 don't know if it could be built, that could handle
24 absolutely any volume.

25 CHAIRPERSON CROWLEY: Right. But

2 you're unifying--

3 CASWELL F. HOLLOWAY: [interposing]

4 So it is still conceivable that there could be
5 delays in 911 answering under any system. So I
6 didn't want to--okay.

7 CHAIRPERSON CROWLEY: Deputy Mayor,
8 we all want what's best for communications in the
9 city in the time of emergency. What's frustrating
10 is that there's a system that doesn't handle the
11 volume right now in a time of a great crisis.
12 There doesn't seem to be a real clear path to
13 solving this problem.

14 I personally think it has something
15 to do with unifying all the three system, the EMS,
16 the Fire and the Police emergencies. That's part
17 of the reason why you get so much volume at one
18 time that the system fails. You haven't had any
19 reassurance from Verizon that this is never going
20 to fail again in the future.

21 In bringing up the unifying call
22 taking system, this is just one of the many issues
23 of concern. We had two hearings in a year and a
24 half to address just that part of the problem, the
25 unified call taking. So I think knowing that we

2 have less than 15 minutes to go for this
3 particular room, I will first say that along with
4 my colleagues here today, I recognize that the
5 administration has made great enhancements to
6 improve communication, but there's definitely
7 follow up issues that need to be addressed. One
8 is the unified call taking system and the 911
9 volume and the likelihood of it to fail again in a
10 catastrophic emergency or just an emergency like a
11 tornado or a snowstorm.

12 We need to follow up with the FDNY
13 study that we did on the subways and to make sure
14 that we're doing as much as we possibly can to
15 improve communication in and around the subways.
16 As it relates to repeaters in high rise buildings,
17 there was also a study that we should go over.
18 When we meet, we should meet again as a committee.
19 That was part of Oliver Koppell's concern earlier
20 that he didn't have a chance to express was that
21 there are things that we could do together to make
22 sure that radio communication is better in high
23 rise buildings.

24 Lastly, just to know that we have
25 to further clarify what happens with the EMS AVL,

2 the automatic vehicle locator system and how that
3 interacts with your computer aided dispatch
4 because we're hearing differently from the union.
5 They say quote/unquote that there's zero function
6 in dispatching as it relates to the AVLs. But I
7 think that maybe we could see it ourselves with a
8 visit to the center.

9 CASWELL F. HOLLOWAY: Sure. I can
10 tell you that's not true.

11 CHAIRPERSON CROWLEY: Okay. Good.
12 I thank you again for your time this morning and
13 look forward to continuing this discussion.

14 CASWELL F. HOLLOWAY: Thank you.

15 CHAIRPERSON CROWLEY: We're going
16 to have the next panel. We have Yucel Ors. Is
17 Yucel Ors still here? Yucel is with Public Safety
18 Alliance, APCO International.

19 [Pause]

20 CHAIRPERSON CROWLEY: If you could
21 please state your name and begin your testimony
22 once you're ready?

23 YUCEL H. ORS: Sure. My name is
24 Yucel Ors. I'm the director of government
25 relations for the Association of Public Safety

2 Communications Officials, APCO International. I'm
3 also the program manager for the Public Safety
4 Alliance. I would like to thank you for the
5 opportunity to appear before you today regarding
6 the proposed Resolution 870-A which calls on
7 Congress to pass and President Obama to sign into
8 law S911, the Public Safety Spectrum and Wireless
9 Innovation Act.

10 APCO International is the world's
11 largest organization of public safety
12 communications professionals. It serves the needs
13 of public safety communications officials
14 worldwide by providing professional development,
15 technical assistance, advocacy and outreach to
16 nearly 16,000 members.

17 The Public Safety Alliances is a
18 partnership of the nation's leading public safety
19 associations which include APCO, the International
20 Association of Chiefs of Police, the International
21 Association of Fire Chiefs, the National Sheriff's
22 Association, the Major City Chiefs Association,
23 the Major County Sheriff's Association, the
24 Metropolitan Fire Chiefs Association, the National
25 Emergency Management Association and the National

2 Association of State EMS Officials. The
3 partnership is operated by APCO International.

4 The PSA believes that the passage
5 of S911 bipartisan legislation, introduced by
6 Senators Kay Bailey-Hutchison and John Jay
7 Rockefeller IV holds the key to solving the
8 problem of lack of interoperability our public
9 safety agencies are facing today.

10 After working through various
11 issues regarding how to fund and govern the public
12 safety broadband data network, Chairman
13 Rockefeller and ranking member Hutchison of the
14 U.S. Senate Committee on Commerce, Science and
15 Transportation developed S911 as a compromise bill
16 which was favorably voted out of committee in
17 June, by a margin of 21 to 4.

18 Among the agreements included in
19 S911 was to dedicate up to \$10 billion of spectrum
20 auction revenue to reduce national debt, as well
21 as providing \$11.75 billion over ten years to
22 build out the public safety broadband network.
23 Led by Senators Charles Schumer and Kirsten
24 Gillibrand, as well as Congressman Peter King, the
25 Chairman of the House Homeland Security Committee,

2 who introduced HR607, the Broadband for First
3 Responders Act of 2011, the State and City of New
4 York's Congressional Delegation has been among the
5 strongest supporters and advocates in the nation
6 for passing legislation that will allocate the D
7 block spectrum and funding to public safety to
8 build out a nationwide broadband network to
9 improve the communications and interoperability of
10 our country's emergency communications, both day-
11 to-day operations and in times of crisis.

12 At this time, I would like to
13 submit into the record a comprehensive report that
14 APCO International has compiled in recent weeks,
15 documenting a large volume reports, studies, field
16 tests, commentary, testimony and legal filings.

17 CHAIRPERSON CROWLEY: I'm sorry.
18 In the interest of time, we're going to submit
19 your testimony to the record. But if you could,
20 just wrap it up?

21 YUCEL H. ORS: Sure. Basically, in
22 short, this report has everything that you can
23 ever imagine about why this is so--

24 CHAIRPERSON CROWLEY: [interposing]
25 Submit the report.

2 YUCEL H. ORS: --needed. The only
3 thing we would ask is as the Resolution 870-A is
4 passed, you work with your colleagues in other
5 cities and counties and other communities have to
6 do the same thing.

7 CHAIRPERSON CROWLEY: Absolutely.

8 YUCEL H. ORS: New York is the lead
9 but we need to get this message out. This is a
10 one-time opportunity. If Congress does not pass
11 this legislation, it will really set back public
12 safety broadband.

13 CHAIRPERSON CROWLEY: We agree,
14 absolutely. Thank you for your testimony today.

15 YUCEL H. ORS: Thank you.

16 CHAIRPERSON CROWLEY: We have no
17 other people who are here to testify. This
18 concludes the Public Safety, Fire and Criminal
19 Justice Committee and Technology Committee hearing
20 of September 27th, 2011.

C E R T I F I C A T E

I, Donna Hintze certify that the foregoing transcript is a true and accurate record of the proceedings. I further certify that I am not related to any of the parties to this action by blood or marriage, and that I am in no way interested in the outcome of this matter.

Signature Donna Hintze

Date October 25, 2011