

TRANSCRIPT OF PROCEEDINGS

IN THE MATTER OF:)
)
JOINT ADVISORY COMMITTEE)
ON COMMUNICATIONS)
CAPABILITIES OF EMERGENCY,)
MEDICAL AND PUBLIC)
HEALTH CARE FACILITIES)

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FEDERAL COMMUNICATIONS COMMISSION

IN THE MATTER OF:)
)
 JOINT ADVISORY COMMITTEE)
 ON COMMUNICATIONS)
 CAPABILITIES OF EMERGENCY,)
 MEDICAL AND PUBLIC)
 HEALTH CARE FACILITIES)

Commission Meeting Room
 Federal Communications
 Commission
 445 12th Street, S.W.
 Washington, D.C.

Monday,
 October 29, 2007

The parties met, pursuant to the notice, at
 10:05 a.m.

PARTICIPANTS:

- JIM BUGEL
- MICHAEL J. ACKERMAN, Ph.D.
- JOHN F. ADAMS, JR.
- CURTIS M. BASHFORD
- TED O'BRIEN
- JAMES A. CORRY
- DREW E. DAWSON
- STEVE J. DELAHOUSEY
- ERIC K. GRIFFIN
- LISA KAPLOWITZ, M.D., MSHA
- RICHARD J. LIEKWEG
- JONATHAN D. LINKOUS
- KEVIN MCGINNIS
- JOHN F. NAGEL
- THOMAS S. NESBITT, M.D. (Via Telephone)
- VIRGINIA PRESSLER, M.D.
- MURAD RAHEEM
- SHAWN R. ROGERS (Via Telephone)
- MIKE ROSKIND
- JULIETTE SAUCIE (Via Telephone)

PARTICIPANTS: (Cont'd.)

KAREN SEXTON
JIM TRAFICANT
CARL C. VANCOTT
JOHN S. WILGIS (Via Telephone)
CHRISTOPHER K. WUERKER, M.D.
ERIC WERNER (Via Telephone)

APPEARANCES

DAVID AYLWARD
JAY SANDERS
MARY ELLEN HENNESSY
IVAN GOTHAM

1 MR. ACKERMAN: Here.

2 MR. BUGEL: John Adams?

3 MR. ADAMS: Here.

4 MR. BUGEL: Curtis Bashford.

5 MR. BASHFORD: Here.

6 MR. BUGEL: Donna Bethea Murphy?

7 (No response.)

8 MR. BUGEL: James Corry?

9 MR. CORRY: Here.

10 MR. BUGEL: Drew Dawson?

11 MR. DAWSON: Here.

12 MR. BUGEL: Steve Delahousey?

13 MR. DELAHOUSEY: Here.

14 MR. BUGEL: Eric Griffin?

15 MR. GRIFFIN: Here.

16 MR. BUGEL: Dr. Kaplowitz?

17 MS. KAPLOWITZ: Here.

18 MR. BUGEL: Richard Liekweg?

19 MR. LIEKWEG: Here.

20 MR. BUGEL: John Linkous?

21 MR. LINKOUS: Here.

22 MR. BUGEL: Kevin McGinnis?

23 MR. MCGINNIS: Here.

24 MR. BUGEL: John Nagel?

25 MR. NAGEL: Here.

1 MR. BUGEL: Dr. Pressler?
2 MS. PRESSLER: Here.
3 MR. BUGEL: Mr. Raheem?
4 MR. RAHEEM: Here.
5 MR. BUGEL: Shawn Rogers?
6 MR. ROGERS: Here.
7 MR. BUGEL: Mike Roskind?
8 MR. ROSKIND: Here.
9 MR. BUGEL: Karen Sexton?
10 MS. SEXTON: Here.
11 MR. BUGEL: Jim Traficant?
12 MR. TRAFICANT: Here.
13 MR. BUGEL: Carl VanCott?
14 MR. VANCOTT: Here.
15 MR. BUGEL: Dr. Wuerker?
16 MR. WUERKER: Here.
17 MR. BUGEL: Ted O'Brien for Iridium?
18 MR. O'BRIEN: Here.
19 MR. BUGEL: Thank you. Okay. I would now
20 like to turn the podium over to Lisa Fowlkes from the
21 FCC.
22 MS. FOWLKES: Good morning, I'm Lisa
23 Fowlkes, Deputy Bureau Chief of the Public Safety and
24 Homeland Security Bureau here at the Federal
25 Communications Commission.

1 On behalf of FCC Chairman Kevin J. Martin
2 and the other FCC Commissioners I would like to
3 welcome you to the first meeting of the Joint Advisory
4 Committee on Communications Capabilities of Emergency
5 Medical and Public Healthcare Facilities. Thank you
6 for agreeing to serve as members of this important
7 committee. We appreciate your commitment to this
8 critical undertaking.

9 I would also like to thank Jim Bugel for
10 agreeing to chair this committee. The creation of
11 this committee emphasizes the importance of effective
12 and reliable communication systems for emergency
13 medical and public healthcare facilities. As required
14 by the implementing recommendations of 9/11 Commission
15 Act, the committee will assess the specific
16 communications capabilities and needs of emergency
17 medical and public health care facilities.

18 The committee will also examine options to
19 accommodate growth of communication services used by
20 these facilities and options to improve integration of
21 these communication systems with existing or future
22 emergency communication networks. The committee must
23 report its findings to Congress by February 4, 2008.
24 This will be a challenging but rewarding task.

25 We are confident that your expertise and

1 experience will serve the committee extremely well in
2 fulfilling its goals. Thank you again for dedicating
3 your time to this important endeavor.

4 MR. BUGEL: Again, good morning, ladies and
5 gentlemen. You have before you a packet. In it is an
6 agenda, there is also a list of your fellow committee
7 members and a copy of most of the materials that have
8 been sent out to you via email over the last two
9 weeks.

10 I've got some opening remarks, and then
11 we'll go kind of into an overview of the committee
12 structure and how we plan to get our task
13 accomplished. Then we will go into a session where
14 each one of you will have an opportunity to introduce
15 yourselves and your area of interest. We also have
16 with us guest speakers today from COMCARE, and the
17 Global Telemedicine Group and New York State Health
18 Department. Then we'll conclude our program today.

19 Again, I want to thank you for attending the
20 first joint meeting and thank you for your
21 participation. Over the past two weeks I have had the
22 opportunity to speak to almost every one of you about
23 why you have volunteered to serve on the committee,
24 your specific interests in this matter and your
25 expectations.

1 The knowledge, expertise and talent in this
2 room is truly impressive. Each one of you has a lot
3 to contribute to this effort, and I'm confident that
4 our final report will reflect that knowledge and
5 skill. We have been asked to complete our report in a
6 tight timeline, and we'll have to accomplish much of
7 our work during the hectic holiday season.

8 Your decision to volunteer demonstrates that
9 you recognize how vital this task is to our country
10 and fellow Americans. As you know, the establishment
11 of the committee is part of Congress' attempt to
12 implement the recommendations of the 9/11 Commission.

13 We can all agree that if there's another
14 terrorist attack, pandemic, or natural disaster the
15 scale of Hurricane Katrina or similar to the fires
16 just experienced in southern California we have to be
17 better prepared to deal with the aftermath. As you
18 all know, there is much we can do to improve our
19 health care communications system.

20 It is hard for the public to comprehend in
21 this day and age that emergency agencies still have
22 difficulties communicating with each other and sharing
23 information, especially in mass casualty events.
24 Existing and new technologies have the potential to
25 bring health care to unserved communities, improve

1 public health and cut costs.

2 Technology exists today that can fully
3 integrate police, fire, Homeland Security, EMS
4 communication systems. Government policy will
5 continue to play a valuable role in determining how
6 these future needs are met and whether we maximize the
7 use of technology to protect Americans. I believe our
8 mission is clear as outlined by Congress.

9 One, assess the specific communications
10 capabilities and needs of emergency medical and public
11 health care facilities including the identification of
12 required improvements for basic voice data and
13 broadband capabilities. Two, assess options to
14 accommodate the growth of basic and emergency
15 communication services used by emergency medical and
16 public health care facilities.

17 Finally, assess options to improve
18 integration of communication systems used by emergency
19 medical and public health care facilities with
20 existing or future emergency communications networks.
21 We have been asked to produce a forward thinking
22 report that follows these parameters and submit our
23 findings directly to Congress.

24 Before I get into the details of how we will
25 proceed I'd like to take a moment to explain what

1 Joint Advisory Committees are all about. Some of you
2 are familiar with them, perhaps some of you have
3 served on one before. Congress may act on our
4 findings, they may not. That depends on the quality
5 and relevance of our report and Congress.

6 There is little doubt in my mind, however,
7 that if we produce a comprehensive report people will
8 pay attention. For years Congress has looked to
9 private and public sectors to work together to tackle
10 difficult issues. Congress has established such
11 committees on issues ranging from electronic commerce
12 during the dot com boom, postsecondary education
13 financial assistance and food safety procedures.

14 Now, Congress has directed the expert
15 agencies in communications, the FCC and NTIA, along
16 with HHS and DHS to establish our Joint Advisory
17 Committee. But as you know, the issues of emergency
18 medical and public health communications are far more
19 reaching, and our deliberations are very timely.

20 Not a day goes by when Congress or the next
21 President to be in Iowa or New Hampshire doesn't talk
22 about today's health care challenges. With this
23 national health care debate looming on horizon many
24 have pointed out that the greater use of technology
25 could significantly cut costs and reduce medical

1 errors.

2 It's amazing that currently only five
3 percent of clinicians have computerized patient
4 records and that only a small fraction of the billions
5 of medical transactions that take place each year in
6 the United States are conducted electronically. The
7 ability to consult patient full medical history online
8 would make it easier for doctors to deliver the most
9 appropriate and comprehensive care.

10 Public health officials could use the
11 database to detect trends and determine the value of
12 different treatments for specific kinds of patients.
13 According to one recent survey a full electronic
14 health care or health information technology system
15 could save the country as much as \$77.8 billion
16 annually, approximately five percent of the roughly
17 \$1.66 trillion we spent on health care in 2003.

18 The idea of integrating our health care
19 network has support at the highest levels of
20 government. In 2004, then HHS Secretary Tommy
21 Thompson released the first outline of a 10 year plan
22 to build a national electronic health information
23 infrastructure in the United States.

24 The report, entitled *The Decade of Health*
25 *Information Technology: Delivering Consumercentric*

1 *and Information Rich Health Care*, was produced in
2 response to a call by President Bush for most
3 Americans to have electronic health records within a
4 decade.

5 As well, the Health and Human Services
6 Department has recently established the highly
7 successful Nationwide Health Information Network,
8 NHIN. Its goal, to provide a secure nationwide
9 interoperable health information infrastructure that
10 will connect providers, consumers and others involved
11 in supporting health and health care.

12 Billions of dollars are being spent on IT
13 infrastructure in every industry across our economy in
14 order to leverage the benefits of Internet Protocol
15 networks and systems. How will emergency medical and
16 public health communications also leverage this
17 investment?

18 So we have emergency medical communications,
19 public health communications, the integration of the
20 two from a tactical and interoperable level, but
21 overarching all of this is the promotion of electronic
22 connectivity in health care or health IT. In the end,
23 we hold enormous potential on what we can communicate
24 to Congress.

25 As I said before, public health in

1 conjunction with advances in information technology
2 can save our government, the American taxpayers and
3 all health care consumers sums of money. I want to
4 repeat that it's important for all of us to reach
5 beyond the membership comprised here today.

6 Numerous studies, papers and systems are
7 being created each and every day within the realm of
8 our charge.

9 Organizations such as Health Care
10 Information Management System Society and E-Health
11 Initiative have been thoughtful leaders in offering
12 proposals and best practices for health care providers
13 and consumers alike to harness the technology at their
14 fingertips, as well as other organizations such as
15 COMCARE, which will be presenting to us later today,
16 and first responder organizations are working hand in
17 hand with state, federal and local authorities to
18 build necessary IT infrastructure to propel seamless
19 emergency response into the 21st Century.

20 More importantly, each and every one of you
21 here today has played an integral role in pushing the
22 envelope in public health IT and emergency response so
23 Americans can get better care. So how will we
24 proceed? How can we manage ourselves over the course
25 of the next several months to prepare our report?

1 From a mechanical perspective and after
2 significant input from many of you I have proposed
3 dividing our committee into four working groups that
4 will address each of the objectives. Each group will
5 be assigned a chair and vice chair, and those two
6 individuals will be responsible for organizing
7 meetings and leading the effort for their respective
8 working groups to complete their portion of the
9 overall report.

10 All of you will be appointed to a particular
11 working group in order to keep the workload balance.
12 Nevertheless, I encourage you to become involved in
13 the other working groups, and please don't hesitate to
14 be very knowledgeable and participate in their
15 efforts.

16 The four working groups will be the
17 Emergency Medical Group; the Public Health Group; the
18 Technology Integration Group; and the Project
19 Management Group. The Project Management Group will
20 be comprised of the chairs and the vice chairs of the
21 three working groups and will be the main line of
22 communications between me and the other working
23 groups.

24 We will put up a slide later on that I will
25 hand out that will show you exactly what working group

1 you've been assigned to and who the chairs are. We
2 will divide our work into three phases.

3 Phase 1 will be three weeks long from
4 October 30 to November 21. The purpose of Phase 1
5 will be to assess the current landscape of
6 communications capabilities in health care facilities.
7 Each group will establish its mission and will
8 consider the needs and requirements of these
9 facilities.

10 They will examine basic and emergency
11 communication technologies and determine gaps that
12 call for improvement. In Phase 1 we also want to ask
13 each working group to identify any progress currently
14 underway in the subject area specifically pointing out
15 recent improvements and promising technologies in each
16 area that are already underway.

17 Many of you are hard at work with
18 alternatives and new developing technologies in this
19 area, so this is an opportunity to point out critical
20 work already being performed. Phase 2 will be six
21 weeks long from November 26 to January 8. During this
22 period the groups will look forward to determine what
23 specific improvements should be made.

24 The groups will repurpose their mission and
25 project the changing needs and requirements for new

1 communications at health care facilities. They will
2 also determine what capabilities will be improved upon
3 and will create plans to accommodate growth. Finally,
4 Phase 3 will last two weeks from January 9 to January
5 25. At this point we will conclude the final draft of
6 the report.

7 The project management group will be
8 responsible for producing a draft of the report based
9 on the work completed by the working groups in Phase 1
10 and Phase 2, but the other working groups will be able
11 to develop change requests to that document. The
12 project management group will take time to consider
13 these requests.

14 Once that process is complete, the project
15 management group will produce a final draft. Then we
16 will set aside a week for the full committee to
17 consider and approve the report. We are driving to a
18 consensus based document. As I said earlier, we have
19 been handed a valuable opportunity.

20 The chance to speak directly to Congress on
21 an issue that affects the health care, health and
22 safety of millions of Americans. In light of this
23 opportunity and the report we send to Congress it is
24 critical that we continue to foster an environment and
25 the technology space that will propel innovation

1 through market based solutions.

2 Together, this Joint Advisory Committee will
3 define the next generation of health care and
4 communication disaster response for our nation.
5 Again, I thank you for your participation and your
6 willingness to serve your country.

7 Need to take a breath. With that, I think
8 it's now time to start the brief introductions of each
9 of the committee members. I'll start with myself.
10 I'm Jim Bugel, I work with AT&T, I'm based here in
11 Washington, D.C. I most recently completed the Chair
12 position of the President's National Security
13 Telecommunications Advisory Committee's Report on
14 Emergency Communications and Interoperability that was
15 sent to the President in February of this year. My
16 area of focus for my company is national security,
17 emergency preparedness and public safety policy. I
18 know a few of you. I look forward to working with all
19 of you. As I said earlier, I think I have spoken to
20 almost every single one of you over the last two weeks
21 except for about two of you.

22 I am truly impressed with the talent that's
23 assembled here and look forward to working with you.
24 Guess we'll go alphabetically.

25 Mr. Adams? If you could identify yourself,

1 too, please?

2 MR. ADAMS: I'm John Adams and I work for
3 Raytheon. I have about 30 years of experience working
4 with the spectrum management and technology.
5 Currently, I am the Chairman of the Spectrum
6 Management Group for Raytheon trying to make sure
7 everything that we do with the wireless are regulated
8 and fully in compliance with national laws because a
9 lot of people out here now are radiating signals and
10 stuff unlicensed.

11 We've got to make sure that we're licensed,
12 and the other thing, too, is make sure we find the
13 right technology for this group. I look forward to
14 working with each and every one of you. As for before
15 I came to Raytheon I spent 21 years in the Army
16 serving my country, and this is another opportunity to
17 do that, so I look forward to it.

18 MR. BUGEL: Thank you, Mr. Adams. Dr.
19 Ackerman?

20 MR. ACKERMAN: I'm Michael Ackerman. My
21 home base is the National Institutes of Health, the
22 National Library of Medicine. I'm the Chief at the
23 National Library of Medicine, the Assistant Director
24 for something we call High Performance Computing and
25 Communications which comes out of an earlier 1990s

1 program across government in the area of high
2 performance computing and communications.

3 My office is responsible for advanced
4 networking and the application of advanced networking
5 to health care. I'm a biomedical engineer by training
6 with many, many years of experience.

7 I often characterize myself as an expert in
8 everything and a master of none, Jack of all trades
9 and master of none, but that's the nature of
10 biomedical engineering, being able to speak all the
11 languages and mix and match to the needs that come up.

12 I serve in several committees, but the one that's
13 relevant to this is that I serve on the Advisory
14 Committee to Internet2 for the purpose of health
15 applications.

16 MR. BUGEL: Thank you, Doctor. Mr.
17 Bashford?

18 MR. BASHFORD: Good morning. Curt Bashford
19 with General Devices. I'm happy to be here this
20 morning. GD has been involved in EMS communications
21 linking hospitals, and ambulances and public safety
22 for a number of years. I've been with the company 21
23 years now, the last 17 of which have been in that EMS
24 communications setting.

25 We didn't dare call it telemedicine until

1 the last couple of years or we'd have vegetables
2 thrown at us, but it is all coming together. We're
3 offering solutions in voice, and telemetry, and data
4 and video. The convergence of technology in today's
5 setting is really allowing all these thoughts to
6 finally come to fruition and begin to come together to
7 serve the need that's out there.

8 I'm also, background, electrical and
9 biomedical engineering along with seven years in a
10 former life in EMS. I've worked with hundreds of
11 hospitals and EMS services throughout the country,
12 City of New York Fire Department, University of
13 Chicago.

14 Most recently our latest project I ever saw
15 from our end, City of Tucson Fire EMS has the first
16 commercial citywide wireless EMS telemedicine system
17 doing concurrent two way video voice and data, so it's
18 kind of the wish list of what we've been trying to
19 accomplish in the field for a number of years.

20 Excited to be here. I've worked with a few of you in
21 the past, and look forward to the next coming months.

22 MR. BUGEL: Thank you. Mr. Corry?

23 MR. CORRY: Good morning, Jim Corry, I'm
24 with Mobile Satellite Ventures based in Reston,
25 Virginia, and retired after 22 years as a Secret

1 Service Agent. I have a pretty strong background in
2 emergency and hyperbaric medicine. Here to contribute
3 to the cause.

4 MR. BUGEL: Thank you, Jim. Mr. Dawson?

5 MR. DAWSON: Thank you, Mr. Chairman. First
6 of all, congratulations on your work and that of NTIA
7 and FCC in terms of getting the committee stood up so
8 quickly. It's very impressive. I'd like to provide
9 just a little bit of background about myself. I
10 currently serve as a Director of the Office of
11 Emergency Medical Services at National Highway Traffic
12 Safety Administration within the Department of
13 Transportation.

14 This is a position I've held for about four
15 and a half years. For those of you who don't know,
16 NHTSA has played a prominent role in emergency medical
17 services system development for nearly 40 years.
18 Also, within the NHTSA Office of Emergency Medical
19 Services is housed the National 911 Office, a project
20 that we operate jointly with NTIA.

21 Prior to NHTSA I was a state EMS Director in
22 Montana. I was the State of Montana for over 30 years
23 including serving as its State EMS Director and during
24 the last part of my tenure overseeing a variety of
25 public health programs. Of course my real interest in

1 emergency medical services devolved or involved
2 working with my local ambulance service on a volunteer
3 basis for probably about 20 years.

4 I'm pleased that the committee has been
5 formed; I certainly appreciate the charges from
6 Congress and the very short timeframe in which these
7 need to be prepared. I also think that this
8 committee's work provides a valuable opportunity to
9 lay the groundwork for modernizing the EMS and public
10 health communications system in the nation.

11 Although I know that reporting to Congress
12 is our primary responsibility the committee's report
13 will also be very useful to the Federal Interagency
14 Committee on Emergency Medical Services. That's a
15 statutorily created group that is responsible for
16 federal interagency coordination on emergency medical
17 services.

18 There is a committee on medical
19 communications and 911 that is chaired by the FCC and
20 myself. My boss, Nicole Nason, is currently
21 chairperson of the Federal Interagency Committee on
22 Emergency Medical Services. I would also point out
23 that it will be very helpful to us as we convene the
24 National EMS Advisory Council which is very near to
25 being created now.

1 The information from this will be very
2 useful to that process as well. We're certainly
3 looking forward to it. Thank you, Mr. Chairman.

4 MR. BUGEL: Thank you, Mr. Dawson. Mr.
5 Delahousey?

6 MR. DELAHOUSEY: Yes, thank you. I'm Steve
7 Delahousey, I'm a registered nurse and paramedic, I'm
8 Vice President of Emergency Medical Services
9 Corporation. We are the parent corporation for
10 American Medical Response, or AMR, who is the largest
11 provider of EMS in the United States.

12 One of our subsidiaries is also EmCare. It
13 is one of the leading providers of ER staffing with
14 emergency physicians. For Hurricane Katrina I served
15 as the ESFA medical disaster officer for south
16 Mississippi. I chaired the Public Safety Subcommittee
17 for the FCC's independent panel to review
18 communications for Hurricane Katrina.

19 Most recently our subsidiary, AMR, was
20 selected by the government to serve as the first ever
21 federal contractor for FEMA to provide ground and air
22 ambulance service for an incident of national
23 significance. I'm the past Chair of the Harrison
24 County 911 Commission, and I look forward to working
25 with you. Thanks.

1 MR. BUGEL: Thank you, sir. Colonel
2 Ebberts, have you joined us?

3 MS. SAUCIE: This is Dr. Juliette Saucie,
4 I'm sitting in for Colonel Ebberts this morning. I
5 can tell you a tiny bit about him. He's the Director
6 of Homeland Security for the City of New Orleans,
7 certainly was in charge during Hurricane Katrina and
8 the rescue, and response and relief efforts in the
9 City of New Orleans.

10 I am the Director of EMS for the City of New
11 Orleans. I also serve as the Medical Director for EMS
12 there, the Medical Director for the Fire Department
13 there, and serve as the Chief Medical Officer for
14 Homeland Security there. I am an Assistant Professor
15 of Medicine in Emergency Medicine at LSU in New
16 Orleans.

17 I have served as ESF-8 lead during, well,
18 post-Katrina really in City of New Orleans. I'm a
19 former paramedic. Steve Delahousey was actually my
20 first boss. You can laugh now, Steve, if you want.

21 I'm a member of the Louisiana Emergency
22 Response Network Subcommittee out of Department of
23 Homeland Security Region 1, serve as the Co-Chair of
24 the Emergency Preparedness Committee for the National
25 Association of EMS Physicians, and am honored to sit

1 in for Colonel Ebberts today. Thank you very much.

2 MR. BUGEL: Thank you very much. Appreciate
3 that. Mr. Griffin?

4 MR. GRIFFIN: Thank you, Mr. Bugel. I'm
5 Eric Griffin, Director of Lee County Emergency
6 Management in Sanford, North Carolina. I'm very
7 pleased to be here to be able to serve in this
8 capacity and work with each one of you on this
9 commission.

10 During times of or in between active
11 emergencies I work to ensure our community's plans,
12 equipment and personnel are ready to respond to any
13 disaster, and during emergencies I'm responsible for
14 coordinating all emergency response in Lee County and
15 its municipalities.

16 I've served as Director in my present
17 position for the past 11 months, and before that I've
18 worked and I have over eight years in emergency
19 services in Wake County and New Hanover County in
20 North Carolina. My understanding as it pertains to
21 the scope of this committee comes primarily from the
22 realm of integration and planning.

23 I see my particular function as being
24 helpful in working with my peers on this committee to
25 ensure that the technology and needs described by the

1 various work groups are able to be implemented by the
2 end users while the systems that are ultimately
3 proposed are able to be integrated at a legacy
4 communication plans and systems.

5 I look forward to serving and learning from
6 each of you. I look around here and I see a wealth of
7 expertise and knowledge, and I think this is going to
8 be a great working relationship. I think the product
9 that we all come together to produce is going to allow
10 our Congress to make great strides for our nation.
11 Thank you.

12 MR. BUGEL: Thank you, Mr. Griffin. Dr.
13 Kaplowitz?

14 MS. KAPLOWITZ: I'm Lisa Kaplowitz, I'm
15 Deputy Commissioner for Emergency Preparedness and
16 Response for the Virginia Department of Health. As
17 such, I'm responsible for both our CDC preparedness
18 funding for public health as well as our funding from
19 HHS ASPR for health system preparedness.

20 We partner with the Virginia Hospital and
21 Health Care Association for the HHS ASPR grant, and
22 that's worked extremely well over the past five years,
23 with regional planning and decisions made at the
24 regional level for health care coordination and
25 response.

1 Virginia has a unified public health system,
2 so all of our local health departments are part of the
3 state which has really facilitated our emergency
4 planning. I have had this position for five years.
5 In my former life I worked for the Virginia
6 Commonwealth University Health System, Medical College
7 of Virginia.

8 In addition to running the AIDS center, I'm
9 trained in infectious diseases, I was in charge of
10 telemedicine and actually started the telemedicine
11 program which mainly served the Department of
12 Corrections, so I'm well aware of the value of this
13 technology which we link to the health department.

14 We do all our training through
15 videoconferencing, and it saved us a tremendous amount
16 of money as well as coordinating all our meetings.
17 We're very involved in communications planning in the
18 Commonwealth working an interoperability group at the
19 state level and working with all our partners, both
20 public and private, for emergency response.

21 In addition to all that, I'm also
22 responsible for the Office of Emergency Medical
23 Services within the Virginia Department of Health.
24 There are many challenges that we face, and we're well
25 aware the interoperability goes way beyond the

1 technology. We need a governance system in place.

2 There is no perfect communication system.
3 As such, we've built an incredible amount of
4 redundancy into our communication systems. Both in
5 health care and public health we've worked very hard
6 to link with emergency response groups throughout the
7 Commonwealth.

8 This is a major challenge for both public
9 health and health care to make sure that we have
10 coordinated communications that work with all our
11 emergency response partners, so I certainly look
12 forward to working with this group on this major
13 challenge.

14 MR. BUGEL: Thank you, doctor. Mr. Liekweg?

15 MR. LIEKWEG: Good morning, I'm Rich
16 Liekweg, I'm the CEO of the University of California
17 San Diego Medical Center. UCSD is one of five
18 academic medical centers within the University of
19 California system, and it's the only academic medical
20 center in the San Diego region. Pleased to be part of
21 this committee.

22 UCSD Medical Center has been recognized the
23 last two years as one of the top 100 most wired
24 medical centers and one of the top 50 most wireless.
25 We have been fortunate to have fully deployed a

1 computerized physician order entry system across the
2 two hospitals.

3 We are deploying an electronic medical
4 record already in our ambulatory care, and in the next
5 two years, so my experts tell me, we will have it
6 rolled out across the inpatient setting. I think a
7 little bit optimistic. We have completely automated
8 our medication administration system as well to
9 improve the quality and the safety of the care that we
10 provide.

11 We also use telemedicine and provide stroke
12 coverage across San Diego and Imperial Counties and
13 have recently networked with our community clinics
14 with our emergency rooms so that we can provide
15 medical homes to our patients who unfortunately we see
16 first and foremost in the emergency room setting.

17 I've been with San Diego for five years.
18 I'm also Chairman of the Hospital Association for San
19 Diego and Imperial Counties and sit on the board of
20 the California Hospital Association and its Executive
21 Committee. So as a state we are very interested in
22 the work that this committee doing.

23 Prior to joining UCSD I spent 16 years at
24 the Duke University Health System. My last position
25 there was CEO of one of the county facilities that

1 also operated the EMS system in Durham County. I most
2 recently obviously am coming from the firestorms in
3 San Diego. Somewhat coincidental that this meeting
4 was scheduled a week after that event.

5 We learned a lot from the result of the
6 Katrina disaster a couple of years ago. We certainly
7 learned a fair amount from the fires we had in San
8 Diego four years ago, and a lot of that showed as we
9 came together as a community.

10 The communications were extremely effective.
11 So there's certainly some lessons learned that I'll
12 be able to share with this group, things that worked
13 well and still where we have some opportunities to
14 deal with major disasters like that. So thanks for
15 allowing me to be here.

16 MR. BUGEL: Thank you, and that's why we
17 scheduled this. We had all the confidence you'd be
18 able to put them out. Mr. Linkous?

19 MR. LINKOUS: Thank you, Mr. Chairman, it's
20 a pleasure and an honor to be appointed to the
21 committee. Appreciate it. My name is John Linkous,
22 I'm the Executive Director of the American
23 Telemedicine Association.

24 ATA is a membership based organization with
25 members throughout the country, actually, throughout

1 the world, including medical hospitals, providers,
2 vendors of telecommunications equipment, a wide
3 variety of people involved in a very broad definition
4 of telemedicine, which is really providing medical
5 health communications using telecommunications, all to
6 aid patient care.

7 ATA has been involved in both
8 telecommunications issues and emergency issues for a
9 number of years. Probably really starting accelerated
10 after 9/11 where we were very involved in providing
11 recommendations and support. You'll hear more about
12 that later from our past president who will be
13 speaking.

14 Many members of the panel have been members
15 or are current members of ATA over the years including
16 a couple of board members, so I feel like we're very
17 well represented here.

18 My past life before ATA, I was involved in
19 telecommunications consulting working with mainly the
20 telecommunications companies and also working with the
21 Commission on the original E-911 Report and Order and
22 doing a lot of work in the cellular telecommunications
23 area. A pleasure to be here.

24 MR. BUGEL: Thank you. Mr. McGinnis?

25 MR. MCGINNIS: Thank you, Mr. Chair. My

1 name is Kevin McGinnis, I'm entering my 34th year in
2 emergency medical services. My day job has been EMS
3 system building with such positions as having been a
4 regional EMS Director for a nine county region in
5 Upstate New York, moved to be the state EMS Director
6 in Maine.

7 I've been an emergency department director
8 and director of ambulance services in a couple of
9 different locations. My night job has been a
10 paramedic, and I still practice paramedicine when
11 those few occasions I get to go back to Maine to do
12 so.

13 I am currently the Communications Technology
14 Advisor for the National Association of State EMS
15 Officials, the National Association of EMS Physicians,
16 the National Association of EMTs, the National EMS
17 Management Association and the National Association of
18 EMS Educators. It's a position that everybody is
19 interested in, but they decided to consolidate it all
20 under one person.

21 I've been very active for the last few years
22 in EMS communications and have kind of been the EMS
23 guy at a lot of tables involving communications
24 interoperability. I currently am Vice Chair of the
25 Executive Committee of the Office of Interoperability

1 and Compatibility at DHS's SAFECOM Interoperability
2 Program.

3 I also work on a committee there on data
4 communications and belong to the National Public
5 Safety Telecommunications Council.

6 I'm very much looking forward to the
7 tremendous opportunity that this brief experience is
8 going to provide us to move emergency medical services
9 communications along because I very much believe that
10 as EMS has grown up as a system in the last 35 years
11 and has gotten to the point where it can bring
12 extremely sophisticated care to you in your home or on
13 the street, one thing that we're doing the same way we
14 did it 35 years ago is talking on the radio.

15 We have such a great opportunity to do so
16 much more for our patients. Thank you very much.

17 MR. BUGEL: Thank you. Mr. Nagel?

18 MR. NAGEL: Thank you, Mr. Chairman. My
19 name is John Nagel, I work for American Messaging
20 Services. They're the second largest paging carrier
21 in the U.S. I'm also here representing American
22 Association of Paging Carriers. They are the paging
23 carriers' association. I have an electrical
24 engineering degree.

25 I've been in the paging industry for 27

1 years. The first 20 or so years I spent developing
2 infrastructure products for the paging industry. The
3 last six years I've spent working for carriers. I'm
4 here to help contribute and possibly learn things that
5 may also help. It's a pleasure to be here.

6 MR. BUGEL: Thank you very much. Dr.
7 Nesbitt, have you had the opportunity to join us via
8 telephone?

9 MR. NESBITT: Yes. I've been on since the
10 beginning.

11 MR. BUGEL: Thank you.

12 MR. NESBITT: Yes. I'm Tom Nesbitt, I'm a
13 physician. I have a Masters degree in public health.
14 My day job is Executive Associate Dean of the School
15 of Medicine at University of California at Davis. I'm
16 also the Director for the Center for Health and
17 Technology at UC Davis which houses our telemedicine
18 program which has been in existence for about 10 years
19 or so.

20 We have about 80 telemedicine sites
21 providing care in about 30 different specialties
22 including emergency medicine and critical care
23 medicine. We also have worked with public health
24 departments for distance education.

25 I'm also currently the Chief Scientist for

1 the Center for Information Technology Research in the
2 Interest of Society at UC Davis, which is a research
3 center researching the use of telecommunication and
4 information technologies in a variety of areas
5 including health care.

6 I'm currently working with the University of
7 California Office of the President to implement the
8 portion of Proposition 1(d) that deals with the
9 development of an expanded telemedicine network
10 throughout the University of California's system.
11 Finally, I'm working with a statewide committee that's
12 been formed by the Governor's office in response to
13 the FCC Rural Health Care Pilot Program.

14 This group will be advising the University
15 of California, if we are fortunate enough to receive
16 that grant. Other relevant information is that I
17 previously served on the National Advisory Committee
18 on Rural Health under Secretary Shalala, and I also
19 look forward to the work on this committee. Thank
20 you.

21 MR. BUGEL: Thank you, doctor. Now we go to
22 Mr. O'Brien who I think actually challenged Dr.
23 Pressler for the greatest distance covered in order to
24 get here coming in from Chile last night.

25 MR. O'BRIEN: Two weeks in South America,

1 but I came from a different direction. I'm with
2 Iridium Satellite, I'm responsible for all that our
3 system does and we do in the Americas, North and South
4 America. Many of you know the Iridium satellite
5 system is as we like to say truly the only system in
6 the world that's capable of providing service to and
7 from every point on the globe.

8 It provides voice, and fax and data service.
9 The system has been widely used, heavily used after
10 some of the major natural disasters we've seen such as
11 Katrina, tsunamis, earthquakes and so forth.

12 We're happy to see that it's now becoming
13 adopted and made part of the infrastructure by many of
14 the first responders and emergency care organizations
15 for applications such as medivac and asset
16 coordination to a level of getting sort of vital sign
17 information from the field to in front of those who
18 are able to make productive use of it.

19 So I'm here, I think the contribution I hope
20 I can make is we've lived and been very close to
21 helping with these disasters, and I think we have a
22 pretty good understanding of sort of how that all, the
23 phases through which that goes and what the strengths
24 and limitations are of the systems that are out there
25 today including ours as well as others.

1 Before, Iridium I was with COMSAT from its
2 inception. During the years we've built what today is
3 called the INMARSAT system for mobile communications
4 as well as the international global system, which
5 today is called the INTELSAT system. So I'm happy to
6 be here and hope I can help. Thank you.

7 MR. BUGEL: Thank you. Dr. Pressler?

8 MS. PRESSLER: Aloha. Thank you, Mr.
9 Chairman, and members of the committee. My name is
10 Ginny Pressler, I'm Executive Vice President at Hawaii
11 Pacific Health which is the largest health care
12 provider in the state. We're a four hospital system
13 with three physician groups, about 18 clinics and
14 about 1,000 other private docs throughout the state
15 that are linked in together.

16 I believe the reason I was assigned this
17 prestigious appointment was because I've been very
18 outspoken in the state about our need for better
19 electronic connectivity, trying to develop a regional
20 health information organization in the state and other
21 efforts.

22 Our four hospital system actually has
23 electronic records throughout all hospitals, and along
24 with Richard, I'm being told in the next year and a
25 half we'll have everything connected up, hopefully

1 also with our physicians as well as hospitals, with
2 computer order entry and full electronic medical
3 records.

4 Our hospital has also been a leader in the
5 state in working collaboratively with both the public
6 and private sector. We're members of two
7 collaborative groups, one called Holomua, which is an
8 attempt to get all of the health care providers in the
9 state connecting and talking to each other with their
10 electronic systems, and the other is actually a grant
11 with FCC for broadband connectivity of both Hawaii and
12 providers in the pacific to have us all interconnected
13 for better communications.

14 Prior to being at Hawaii Pacific Health I
15 was Deputy Director at the State Department of Health,
16 and I think that was the other reason I was appointed,
17 because I have experience working with the public
18 health sector and was there at the times of several of
19 our disasters, so I'm very pleased to be here, and I
20 look forward to working together with you.

21 Jonathan, Dale Moyen says hello to you.
22 Thank you.

23 MR. BUGEL: Thank you. Mr. Raheem?

24 MR. RAHEEM: Good morning, Mr. Chairman, and
25 thank you, Ms. Fowlkes, for having us here. I'm the

1 Branch Chief for Electronics and Communications in the
2 Assistant Secretary for Preparedness and Response in
3 Department of Health and Human Services. I'm going to
4 actually see some of you folks on Thursday. The FCC
5 and HHS is chairing a joint committee on public health
6 response communications.

7 We have two primary roles, one is
8 preparedness with the Hospital Preparedness Program
9 and the Critical Infrastructure Preparedness for
10 Health Care, and the response arm, the National
11 Disaster Medical System, was returned to HHS in
12 January of this year, so we have challenges such as
13 electronic medical records in the field, and how we
14 use that with our response teams and how that
15 information then gets transferred to hospitals.

16 I am predominantly a communicator not a
17 health care person. I've been doing this for many
18 years. I was previously with the Peace Corps as FL
19 Communications Manager worldwide and would hope to
20 listen, and learn and contribute. Thank you.

21 MR. BUGEL: Thank you. Mr. Roskind?

22 MR. ROSKIND: First of all, I want to thank
23 the FCC and the NTIA for their leadership in setting
24 this up and specifically Mr. Bugel for his leadership
25 in running and setting this up in such a fast and

1 efficient manner. Want to thank the rest of you for
2 your service to your profession and to your country.

3 My name is Mike Roskind, I'm the Deputy
4 Director of the Office of Emergency Communication and
5 currently the Acting Director. I work for Secretary
6 Chertoff who sends his best, along with Deputy
7 Undersecretary Jameson and Assistant Secretary Garcia.
8 They're all grateful for your service and want to
9 thank you.

10 Office of Emergency Communication was stood
11 up under a congressional mandate under Title 18 and
12 modification of the 2002 Homeland Security Act to
13 consolidate emergency communication activities between
14 federal, state and local government including tribal
15 activities.

16 One of our products is to be a national
17 emergency communication plan, which my hope is to
18 leverage the lessons learned and recommendations of
19 this panel and incorporate the lessons from the Joint
20 Advisory Committee into that national emergency
21 communication plan. My background, I came from
22 industry, most recently Wireless Facilities Government
23 Services, which recently became Kratos.

24 I was also an elected city councilman for
25 the City of Woodinville, Washington, and active in the

1 Association of Washington Cities and Suburban Cities
2 Association in King County, Washington. My background
3 before that, I spent 10 years on the street as a
4 patrol officer for the Seattle Police Department and
5 the Snohomish County Sheriff's Office.

6 Before that I was an electronic warfare
7 officer flying the A6-Bs actually defeating
8 communication infrastructure. I have combat
9 experience from Operation Desert Storm in defeating
10 the Iraqi air defenses and as an antisubmarine warfare
11 officer.

12 My educational background includes a
13 Master's in strategic planning from the University of
14 Washington and a Bachelor's degree from the U.S. Naval
15 Academy, which despite putting 52 points on the board
16 Saturday managed to lose.

17 MR. BUGEL: I'll save the editorial comment
18 on that one. We have to back up a little bit. Mr.
19 Rogers, have you had the opportunity to join us on the
20 bridge?

21 MR. ROGERS: I have. Can you hear me?

22 MR. BUGEL: Yes.

23 MR. ROGERS: Okay, great. Well, I thought
24 maybe you were going to save us lurkers for the last.
25 Shall I just launch into it?

1 MR. BUGEL: Go right ahead.

2 MR. ROGERS: All right. I'm Shawn Rogers,
3 I'm the Director of the EMS Division of the State of
4 Oklahoma Department of Health. I've been a paramedic
5 since the Reagan administration, I've been an EMS
6 Administrator since Bush one and I've been the
7 Oklahoma State Director since late in the Clinton
8 Administration.

9 I'm the Communications Chair for the
10 National Association of State EMS Officials, and I'm
11 delighted there to be working with Kevin McGinnis.
12 I'm very interested in representing EMS in this
13 excellent discussion, and I'm very grateful that we're
14 having it.

15 EMS as a field, little has been heard from
16 regarding communications outside the fire arena. I
17 think it's very important that nonfire EMS be
18 reflected. Most EMS throughout the middle of the
19 county is nonfire, and those endeavors, mostly small
20 towns, and private operators, and hospital based
21 operations and so forth, have been little touched by
22 national preparedness efforts thus far.

23 I'm eager to assist, too, with developing a
24 plan to prepare for the exponential expansion of
25 demand from the retiring Baby Boom Generation. So I'm

1 happy to be here and happy to meet you all.

2 MR. BUGEL: Thank you, Mr. Rogers. Ms.
3 Sexton?

4 MS. SEXTON: Thank you. I'm Karen Sexton,
5 I'm Ph.D. and a nurse by training. I've been in
6 hospital administration for greater than 20 years
7 including academic medical centers and Level 1 trauma
8 centers. Currently, I'm the CEO for University of
9 Texas Medical Branch in Galveston's hospitals and
10 clinics. If you don't know where Galveston is, it's a
11 barrier island that's 40 miles south of Houston.

12 We have one of the only BSL-4 labs on an
13 academic campus, we have petroleum plants in Texas
14 City and we're on the Galveston/Houston port channel.
15 We're used to emergencies. Being on our island we
16 serve hurricanes as well. I guess I'm here because I
17 served as the incident commander for the total
18 evacuation of our hospital first time in 114 years.

19 During Hurricane Rita we evacuated 427
20 patients. In that evacuation we used 100 plus
21 ambulances, 32 helicopters, six fixed wing, and
22 multiple busses. My frustration was that once we put
23 our patients on the road we had no longer any
24 communication with those vehicles as they tried to
25 navigate the traffic situation in the Houston area and

1 get our patients to medical facilities.

2 UTMB serves as one of the largest
3 telemedicine programs in the world primarily through
4 their consults with our correctional care across the
5 State of Texas. We are a large health care facility
6 and serving multiple clinics across the State of
7 Texas. We admit 41,000 patients to our hospitals
8 every year and we do almost one billion clinical
9 ambulatory visits a year.

10 I currently serve on the Executive Board of
11 the Texas Hospital Association and on the Advisory
12 Board of the Council of Teaching Hospitals at the
13 AAMC. Following the hurricane evacuation I was asked
14 to serve on the Governor of Texas Task Force to
15 enhance Texas' ability to respond across the state,
16 and in that role I served as the Chair of the Special
17 Needs Committee.

18 I'm pleased to be here and do what I can to
19 be better prepared to handle emergencies.

20 MR. BUGEL: Thank you very much. Mr.
21 Traficant?

22 MR. TRAFICANT: Yes. Mr. Bugel and Ms.
23 Fowlkes, thank you for your leadership and I
24 appreciate the opportunity to serve with each of you.
25 I'm Jim Traficant from the Harris Corporation.

1 Harris is an assured communications and information
2 management company.

3 My background comes from I'm the Vice
4 President of our health care solutions business. We
5 do work with the NIH, the CDC, and Harris does an
6 extensive amount of work managing networks at the
7 national level and the ability to provide first
8 responder communication support.

9 We provide a nationwide network through the
10 FAA, some of the largest networks in the intelligence
11 community, also with Defense. During Hurricane
12 Katrina we stood up a microwave communications network
13 in response to the devastation there for the
14 communications. We also have the capacity through our
15 broadcast business working with PBS stations to avail
16 communications bandwidth for rural telecommunications.

17 I came at this, though, not as a medical
18 professional but as a patient. My passion for serving
19 on this committee is a result of two liver
20 transplants. Having relied and had my life at stake
21 for emergency medical responders I really appreciate
22 the service that each of you have provided. It has
23 made a difference in my family, in my life personally,
24 and I'm looking forward to contributing to this
25 committee.

1 MR. BUGEL: Thank you very much, sir. Mr.
2 VanCott?

3 MR. VANCOTT: Good morning, Mr. Chairman,
4 members of the committee. I am Carl VanCott,
5 currently the Communications Specialist for the State
6 of North Carolina Office of Emergency Medical
7 Services. I've been with the State of North Carolina
8 for 33 years now.

9 The principal product that we're working on
10 currently is a statewide voice integrated system
11 connecting all hospitals, public health departments
12 and EMS responders. This is a -- what's the correct
13 word they use -- it's an analog system, anyway, and we
14 are looking at now integrating that into a statewide
15 digital 800 megahertz trunked system which also will
16 be statewide.

17 Prior to joining the State of North Carolina
18 I worked in private enterprise, private industry, in
19 developing radio telemetry equipment for paramedic
20 applications. Worked with the Los Angeles County Fire
21 Department and was instrumental in putting in some of
22 their radio telemetry equipment, worked with Gage and
23 DeSoto on the television program Emergency and I have
24 evolved through many different systems and working
25 with different people.

1 Chairman of the EMS Communications Committee
2 for Public Safety Communications Officials, past
3 Chairman of the National EMS Committee on Region 31
4 800 Megahertz Planning, I have been a member of the
5 College of Fellows for the National Association of
6 Emergency Dispatchers and past President of the
7 National Academy of Emergency Dispatchers, currently
8 Committee Chairman of the Subcommittee on EMS
9 Communications for ASTM, and I've had the privilege of
10 working with several of the people around this table
11 before and I'm looking forward to continuing our work.
12 Thank you.

13 MR. BUGEL: Thank you, sir. Mr. Wilgis?

14 MR. WILGIS: Yes, thank you, Mr. Chair.
15 John Wilgis with Florida Hospital Association. I want
16 to take the opportunity to thank the FCC and the NTIA
17 for calling this joint committee together to address
18 the important needs of interoperability in emergency
19 medical communications. I am the Director of
20 Emergency Management Services for Florida Hospital
21 Association which is a member association of hospitals
22 and health systems for the State of Florida.

23 My role is a little unique in that I
24 represent all Florida hospitals to our state
25 government officials, that being the Department of

1 Health, and specifically, the Offices of Public Health
2 Preparedness, the Department of Emergency Medical
3 Operations and the Division of Emergency Management.

4 I have a background and I'm a respiratory
5 therapist by trade but went on to get my MBA in
6 hospital administration, and I have a diverse clinical
7 and administrative background in the hospital world
8 and then came over to FHA after some work I was doing
9 in the realm of emergency preparedness and planning.

10 My real interest here in working with this
11 group is how can we integrate, coordinate, all of the
12 various diverse systems of voice and data
13 communications for all of our health care systems,
14 that being prehospital and hospital? In the State of
15 Florida it's a huge issue, and we would like to work
16 with the group and work with the committee to prepare
17 for improving this across our country.

18 I'm happy to serve on this committee. I
19 just thank everyone. I look forward to working with
20 you all. I hope we can accomplish a lot in a very
21 short period of time. Thank you very much.

22 MR. BUGEL: Thank you. Dr. Wuerker?

23 MR. WUERKER: Good morning, my name is Chris
24 Wuerker, I'm an ER physician here in D.C. I work at
25 Washington Hospital Center, which is a large 900 bed

1 facility here in the District. I've been involved
2 with emergency preparedness for the hospital, D.C.,
3 and the national capitol region. I'm also the Program
4 Medical Director for MedSTAR Transport.

5 We're a five helicopter Medivac provider
6 that operates throughout the mid-Atlantic region.
7 Perhaps I can contribute a perspective from the ER and
8 perhaps from the air.

9 MR. BUGEL: Thank you. Also joining us on
10 the phone is Eric Werner. Eric, are you still there?

11 MR. WERNER: Yes, I am, Jim.

12 MR. BUGEL: Just introduce yourself to the
13 group.

14 MR. WERNER: I will do. Thank you. This
15 actually comes at sort of a very opportune time
16 because, as I mentioned, regretfully, I'm going to
17 have to sign off momentarily. My name is Eric Werner,
18 I'm a Senior Advisor to Assistant Secretary for
19 Information and Communications John Kneuer at the
20 Office of the Assistant Secretary for the National
21 Telecommunications and Information Administration.

22 I didn't jump in at the beginning, but
23 before I leave I would like to take a moment on behalf
24 of Assistant Secretary Kneuer and Deputy Assistant
25 Secretary Meredith Baker join in the remarks you made,

1 Jim, and those that Lisa made at the outset to welcome
2 all of the members of the committee and to thank you
3 all for your service.

4 In particular, Jim, I wanted to thank you on
5 behalf of the Assistant Secretary for taking the wheel
6 to navigate the committee through its important work
7 and what will be very fast moving waters over the next
8 10 to 15 weeks.

9 As you so eloquently summarized earlier the
10 mandate of the committee underscores the critical
11 importance that our public health system and the
12 emergency medical services sector in particular play
13 in maintaining the well-being of our nation generally
14 in elevating our overall state of preparedness to
15 enable us to respond to emergency events regardless of
16 their source or scope.

17 The work of the committee compliments a
18 number of ongoing initiatives at the federal, state
19 and local levels in the areas of medical
20 communications and information systems, public safety
21 and emergency preparedness communications and other
22 major emergency preparedness activities.

23 Certainly we at NTIA are very familiar with
24 this having just recently issued about \$1 billion in
25 grant money for public safety interoperable

1 communication systems, but complement as well a number
2 of the initiatives that you mentioned in your remarks
3 that are underway, both at our fellow agencies, HHS
4 and DHS, and elsewhere in the government.

5 The work of the panel is going to be very
6 important to helping I think to rationalize, and
7 harmonize and coordinate many of the activities that
8 are underway across that spectrum and to help bring
9 them together.

10 The breadth of expertise that is represented
11 with you in the room now, and on the phone, and the
12 members of the panel, and in those who are not on the
13 panel but who have graciously and generally offered
14 their experience and their expertise in support of the
15 work of the committee I think portend great success
16 for this panel.

17 The work plan that you've laid out I think
18 is a formula for an efficient approach to important
19 issues, and we at NTIA will look forward to working
20 with you and in support of the committee and its work
21 over the coming weeks. I will look forward to hearing
22 how the rest of the meeting goes.

23 MR. BUGEL: Thank you, Eric. I apologize
24 for not deferring to you earlier. Probably around the
25 fourth meeting I'll get all this right.

1 MR. WERNER: No, no, no, no. Don't take it
2 in any way. The circumstances aren't optimal
3 unfortunately. I regret that I couldn't be there in
4 person with you today. I would like to acknowledge
5 the presence of my colleague, David Murray, who is
6 also a Senior Advisor for the Assistant Secretary, who
7 is joining you in the Commission's meeting room today.

8 Unfortunately, I am out in Los Angeles
9 attending a meeting with the Assistant Secretary on
10 another matter and preparing to go into another
11 meeting on that shortly. I will look forward to
12 hearing how the rest of the meeting goes, and am very
13 interested to hear the discussion on the forthcoming
14 work of the committees and the subcommittees.

15 MR. BUGEL: Thank you very much.

16 MR. WERNER: Thank you.

17 MR. BUGEL: Appreciate it. A couple more
18 introductions. I would also like to introduce Jean
19 Ann Collins from the FCC who will be working with us.
20 You will probably very likely receive emails from
21 Jean Ann.

22 The other person that works with me is
23 Colleen Meisenger -- Colleen -- the person that you
24 probably will receive all the emails from because I'm
25 incapable of getting them right the first time, so

1 it's not spam, it's coming from us. They are
2 responsible for doing a tremendous amount of work in a
3 very short period of time in conjunction with NTIA and
4 the FCC in order to get this thing off the ground and
5 running.

6 As I said before in speaking to you on the
7 phone I was very impressed with this group and was
8 very impressed when I looked at resumes, and I'm even
9 more impressed now. In your package, also, you've
10 gotten email, is basically the three working groups.
11 It's about the fourth, fifth, sixth document back.
12 These are the Emergency Medical Group, the Public
13 Health Group and the Technology Integration Group.

14 The chair for the Emergency Medical Group
15 will be Mr. McGinnis, the chair for the Public Health
16 Group will be Mr. Linkous and the chair for the
17 Technology Integration Group will be Mr. Roskind.
18 They are right now currently in the process of seeking
19 for additional leadership inside the working group.
20 Please familiarize yourselves with who is on the
21 committees, on your working groups.

22 You have the contact information. There is
23 obviously going to have to be a tremendous free
24 exchange of information going between the working
25 groups and within the working groups. A lot of this

1 work is going to have to be done via conference call,
2 via email. We will be lining out -- I guess let me
3 back up.

4 What the Project Management Working Group
5 hopes to have in about a week is an outline of what we
6 think the direction of the report. That outline will
7 be discussed with you all, and we will move forward
8 from there. It will be a work in progress.
9 Basically, we do not have a lot of time. We have to
10 rely on a lot of work that's been done.

11 You all are very familiar with the existing
12 bodies of work out there. So after this meeting I'd
13 like to spend some time with the chairs, and we can
14 discuss that further.

15 With that, I think now I'd like to turn to
16 our first guest speaker, which is David Aylward with
17 COMCARE. Let me also just add that our opportunities
18 to get together are going to be rare. We may get
19 together according to the schedule. Also, in your
20 package is a tentative schedule. As Mr. Linkous
21 pointed out to me you've got to take your breath after
22 you looked at it, but, you know, 90 days is 90 days.

23 So if there are groups that you would like
24 to present testimony and witness to the group, to the
25 general body, please submit those through the working

1 group chairs so that we can vet that process and
2 potentially make arrangements for that.

3 Mr. Aylward, welcome.

4 MR. AYLWARD: Thank you. My name is David
5 Aylward. I know many of you. Nice to see all of you
6 I've known and worked with, nice to meet others of
7 you. A little bit of personal background. This fall
8 is my 30th anniversary in communications and IT
9 policy, and more recently deployment. COMCARE that I
10 represent I helped found 10 years ago, is an emergency
11 response advocacy group.

12 We represent about 100 organizations, many
13 of which are around the table. The perspective that
14 we have, our goal in life is to do what you're talking
15 about doing. I must say that I'm delighted that today
16 in three different cities there are major events going
17 on on critical topics related to this.

18 Harris Corporation is sponsoring MILCOM in
19 Florida today where my colleague, Judith Woodhall, the
20 Executive Director of COMCARE, is speaking to an
21 audience of uniforms about what they call CIMIC. I
22 didn't know what CIMIC was until a while ago, but
23 that's civil military cooperation. The military needs
24 to be interoperable with us folks, and so they're
25 focusing on this issue.

1 Today in Chicago there's a group called
2 HITSP that's meeting. Those of you who come from the
3 hospital world and electronic health records, you know
4 what HITSP is all about, but that's where I'm going
5 after this meeting. To go from a time when kind of
6 yelling about hey, don't forget emergency medicine to
7 a day when there are three major events, it's very
8 gratifying, so I'm delighted.

9 We thought that it would be helpful to break
10 the talking a little bit by starting with some video
11 entertainment since one of the hardest things we have
12 found in this space is to give people a vision of
13 what's possible. If they don't know what's possible
14 then they don't ask for what's possible, and
15 therefore, they take what the vendors offer them.

16 The vendors tend to offer them stuff that
17 may work very well for their current function but
18 doesn't advance the ball. We and some of our friends
19 have tried to put together visual demonstrations of
20 what the future might look like, and so if you'll
21 permit.

22 We're not a corporation, so we don't have a
23 huge production so you may see a few rough edges here,
24 but this is a little six minute movie about what the
25 future might look like.

1 (Whereupon, a video was shown.)

2 MALE VOICE: If we can get to victims
3 earlier we have a much better chance of saving a
4 person's life. We need to know the location of that
5 incident, we need to know the magnitude of that
6 incident.

7 MALE VOICE: Time can make all the difference
8 in the world. It can be the difference between life
9 and death.

10 FEMALE VOICE: The sooner we get to the
11 incident, the sooner we can control it.

12 MALE VOICE: We've got a limited window to
13 make a difference.

14 MALE VOICE: To be effective during an
15 emergency responders need the information they need
16 when they need it. This means utilizing modern
17 information technology for easy, rapid access to
18 essential data, data that can be shared and enhanced
19 throughout the response continuum creating an
20 environment of informed emergency response.

21 Emergency responders are the critical links
22 in the chain of survival. Unfortunately, a wealth of
23 information that would help responders perform their
24 duties far better is beyond their reach. More and
25 better information empowers responders to perform at

1 new levels. This information exists, but it resides
2 on the opposite side of a technological divide.

3 The emergency communication center of the
4 future will bridge this gap allowing them to access
5 and share critical information that just may save your
6 life. The current 911 system exists primarily to
7 receive incoming telephone calls and dispatch
8 traditional first responders. Critical victim and
9 incident information often exist in electronic form,
10 but 911 dispatchers don't have access to it.

11 FEMALE VOICE: We have the technology, we
12 just need to connect the dots.

13 MALE VOICE: A car crash resulting in severe
14 brain injury demonstrates the information that is
15 available today electronically but not available
16 automatically or on demand to dispatchers.

17 This information includes exact incident
18 location, crash data, vehicle make and model,
19 ambulance and paramedic availability, hospital bed and
20 medical staff availability, status of air transport
21 services, vehicle extrication information, injury
22 prediction tools, personal health records, hospital
23 records and traffic advisories.

24 MALE VOICE: Right now we're having to have
25 an individual, a dispatch officer, calling people in

1 sequential fashion trying to get a hold of the people
2 they need, and that's time.

3 MALE VOICE: PSAPs will become emergency
4 communication centers assuming a vital, ongoing role
5 in emergency response processing a diverse wealth of
6 information. The PSAP of tomorrow will synthesize
7 information from sources ranging from text messages
8 and photographs captured by cell phones to patient
9 histories obtained from electronic health records to
10 telematics crash data to injury predictions and care
11 records.

12 MALE VOICE: We need a 411 for 911.
13 Everyone that needs to respond to an incident can see
14 what it is, where it is and what kind of response
15 needs to be given to it.

16 MALE VOICE: Let us paint a vision of that
17 future. After driving all day a woman falls asleep at
18 the wheel. She hits the windshield with enough force
19 to lose consciousness. Upon impact the car's
20 telematics system immediately transmits over a
21 commercial wireless network a voice call, exact
22 location and detailed crash information.

23 MALE VOICE: Currently, we have to call on a
24 radio and wait for dispatch to come back with that
25 information.

1 MALE VOICE: Crash location, deceleration
2 rate, direction of force, airbag deployment, vehicle
3 make and model and other relevant data are
4 automatically assembled at the telematics call center.
5 The voice call goes to the ECC 911 center along with
6 this package of information.

7 The data is also immediately delivered to
8 other agencies that have registered to receive it such
9 as EMS, air transport, the transportation department,
10 the police and the closest trauma center. The crash
11 data is then automatically fed into a new emergency
12 medical dispatch EMD protocol within the 911 CAD
13 system.

14 Now, EMD combines real data with the answers
15 to questions and it uses the urgency algorithm to
16 combine engineering data with observational
17 information to predict the probability of serious
18 injury. The initial injury prediction based only on
19 the crash data is not too severe. An ambulance is
20 dispatched and the EMTs review the injury predictions
21 on the way to the scene.

22 At the same time, the 911 telecommunicator
23 receives the name of the owner of the vehicle from the
24 telematics service provider. She gains access to the
25 driver's personal health records to which the owner

1 granted advance permission. She is alerted that the
2 patient is currently taking the blood thinner
3 Coumadin.

4 In this case when adjusted for the driver's
5 age, gender, consciousness and Coumadin use the
6 dispatcher sees that the urgency algorithm is
7 predicting a high probability of brain injury. Within
8 a few minutes we now have a very different kind of
9 emergency.

10 Life saving information in hand, the
11 telecommunicator calls for an emergency air medical
12 transport crew to be activated to airlift the
13 passenger to a trauma center due to the probability of
14 brain injury. Brain trauma protocols are downloaded
15 to both the ambulance and air responders along with
16 instructions to check for internal bleeding due to the
17 blood thinner.

18 The brain trauma team at the center is
19 alerted. Simultaneously, fire responders now know the
20 make and model of the car. The crash data predicts
21 extraction equipment will be required, so they grab
22 the jaws of life. In route, they access detailed
23 vehicle structure data via the vehicle rescue database
24 and familiarize themselves with hazards in the car
25 such as electrical currents and air bag mechanisms.

1 They are ready to start cutting as soon as
2 they arrive. Fire responders rapidly extricate the
3 victim. The EMTs stabilize her. The air medical team
4 arrives and air lifts the passenger to the emergency
5 department with the specialized brain trauma team.

6 At the same time, the crash victim's
7 emergency response electronic health record is
8 expanded with voice to text entries from responders
9 and automatic entries from devices such as blood
10 pressure and pulse ox monitors. All relevant patient
11 data is sent electronically to the waiting hospital
12 staff.

13 The operating room is being prepared. This
14 information is fed into the hospital's patient system
15 before the patient arrives saving the hospital time
16 and expense. Because incident and patient data was
17 collected from the moment the crash occurred hospital
18 staff is able to provide rapidly informed care.

19 Where once emergency rooms admitted patients
20 as blank slates these properly equipped doctors have a
21 wealth of important information about the patient.
22 For example, doctors are able to access a history of
23 changes in the driver's Glasgow Coma Scale Score since
24 the first call to 911.

25 These trend lines indicate the need for a

1 fast operation to relieve bleeding in the brain. The
2 significant changes in consciousness are being quickly
3 detected.

4 MALE VOICE: With a trauma case the time can
5 make all the difference in the world. It can be the
6 difference between life and death.

7 MALE VOICE: Because of the responders,
8 their skills and the new information they have the
9 victim receives rapid and informed response. She
10 survives with no long-term brain damage. The system
11 worked not just in this crash, it got smarter and
12 better prepared for the next emergency.

13 Throughout this scenario external
14 information sources such as telematics, personal
15 health records and the vehicle rescue website as well
16 as the actions of responders contribute data at
17 various points along the continuum of response. Data
18 does not remain in one place.

19 It flows through the chain of response from
20 911 to EMS to hospital based care improving emergency
21 care at each of these points. Ultimately, this
22 information is used to improve response processes
23 through protocol development and research, savings
24 lives along the way.

25 MALE VOICE: This project is about getting

1 better information to the right people quickly.

2 MALE VOICE: Whether the response is to
3 pandemic flu, hurricanes, heart emergencies or
4 terrorist attacks, critical information needs to
5 easily flow through the continuum of response allowing
6 responders to provide prompt, high quality, life
7 saving emergency care.

8 The question is not if an emergency will
9 happen on your watch, it's when and how will you
10 handle it? Will you have modern data and voice
11 communications or will you only be able to make
12 telephone calls. Information and evidence based
13 decisions represent the next generation of emergency
14 response. Get ready to be informed.

15 MR. AYLWARD: So that's our vision. It
16 tracks very close. Last night I read an article Kevin
17 just wrote in an EMS magazine that looks like he was
18 kind of the script writer for this. I think the issue
19 that we face is, you know, you might disagree with
20 some of that, but how do we get there?

21 The pieces that weren't really described
22 there is if you have that kind of a system it's very
23 easy for public health to extract out of it the data
24 that they want for syndromic surveillance, and just as
25 importantly it's easy for public health to put

1 instructions into that kind of a system into a 911
2 protocol saying if somebody is complaining of chest
3 something ask them if they've been abroad in the last
4 two weeks.

5 If they've been abroad in the last two weeks
6 ask the following four questions. So there's a vision
7 there that I hope you ascribe you to. We are working
8 on some very specific issues related to that vision
9 which we would be delighted to put in front of you, be
10 delighted to have you involved in individually or as a
11 group. Our most active ones are on patient tracking
12 generally.

13 I'll describe that a little bit. We are
14 working, a lot of work, on standards. We are working
15 on the things in the middle that are necessary for
16 that kind of a system to work. Let me step back for a
17 second and offer a couple of comments on one of the
18 problems with emergency medicine, and IT and public
19 health is that you're kind of the weak sisters or the
20 poor sisters of the emergency world.

21 I've been at this for about 10 years, and
22 one of the things that is always the case is that
23 there's a big boys club and then there are other
24 clubs, and the medical people tend not to be part of
25 the big boys club. That's unfortunate because

1 emergency communications used to be thought of
2 historically and in this building as a spectrum issue,
3 as a radio issue, and it is certainly that.

4 That's very important, but you're all here
5 because it's much more than that. One, you're part of
6 the radio world, but also, you're part of the
7 information world. The world hasn't caught up to
8 that, so we tend to be excluded, whether it is from
9 the committees that are doing the planning, from the
10 state plans themselves.

11 There's a lot of talk about the billion
12 dollars that's going out the door. I'm reading the
13 state plans as to how that billion dollars is going to
14 get spent. There are not a lot of major
15 representation.

16 There are some individual states that are
17 doing a great job, there are some other states that
18 have included some people like you or people at this
19 table, but for the most part there is not what I would
20 call an integrated planning process that includes all
21 of emergency response including emergency medicine,
22 either in the planning or in the spending, nor is that
23 money being focused on interoperability.

24 I think one of the messages that we all get
25 is clean up your own house first, and within the

1 emergency medical world I think we have our own kind
2 of stovepiping that we've been able to do. CDC spent
3 a lot of money on emergency communications on one
4 specific thing, health alert networks.

5 A lot of money was put out the door three,
6 four, five years ago to put up one way systems. A lot
7 of money is being put out the door by HHS to do
8 another stovepipe which is to pull data back in from
9 hospitals so it can be analyzed to look for trends, a
10 one way stovepipe system.

11 Other broader homeland security grants, CDC
12 has been funding public health. Public health was
13 delighted to get some funding for the first time from
14 the federal level in a big way, and they certainly
15 weren't going to share it with EMS.

16 There was HRSA throwing money out the door
17 to hospitals who were delighted to get it and
18 certainly weren't going to share it with EMS much less
19 the EMS cousins. I know one folks, you know, they
20 were told to go off and get their own program, which
21 they did, but they couldn't get it funded.

22 The people doing private stuff are just kind
23 of, you know, as Lisa was saying earlier, they're not
24 really invited to the party at all. Part of this is
25 politics. I mean, part of this is EMS is not well-

1 organized, emergency medicine is not well-organized.

2 These are all new professions.

3 They haven't had decades to get together and
4 form political action committees and learn how to
5 influence the political system. Enough already. It's
6 time to get over that, and get organized and to have
7 our own centralizing forces because even within these
8 professions there's a commitment to diversity that
9 goes beyond what it needs to be.

10 The final piece I'd say about that is, yes,
11 Jim, there's a lot of focus on health IT now, but
12 interestingly, it doesn't include what you're talking
13 about here for the most part. It's hospitals and
14 public health to some degree, it's not emergency.
15 That's changing a little bit, starting to change this
16 group. I think it can make a big difference.

17 In the funding silos, what is the federal
18 government doing about this, unfortunately the federal
19 government for the most part is reinforcing those
20 silos. I already mentioned we represent law
21 enforcement to some degree and fire to some degree, so
22 I'm not picking on them.

23 I just want to point out that emergency
24 response is a big integrated whole, and if you focus
25 on this from the perspective of the public, like Jim

1 was saying he needed help one day. I spent the last
2 three weeks at Duke University Hospital, my wife
3 decided to attack a floor with her hip and the floor
4 won.

5 If you look at this from the public's
6 perspective they don't think of it in terms of
7 domains, they think about it in terms of a response
8 system. When you look at it from the federal level or
9 the state level, what are we doing? Well, one thing
10 we're doing is Congress in its wisdom said well, 80
11 percent of the money at minimum should go to the
12 locals.

13 Well, if you're building IT and
14 communications networks that's just wrong. You
15 shouldn't do that. I mean, for other purposes that's
16 right, but where we need integrated networks you
17 shouldn't do that. Where in the federal government is
18 the integrated emergency response program for all
19 organizations?

20 I hope it's you, Mike. I hope that's going
21 to be you, but it hasn't been up to this point. If
22 you're into public warning you go to one place and
23 FEMA, if you are into radios you go to a different
24 place and if you're into information analysis you go
25 to another place and where is the focus on the center.

1 I skipped most of this talk about what's
2 wrong just to focus on what we think we should do
3 about it. We have worked this problem for a long
4 time. When I say we, our members are we. We've
5 thought a lot about it, and we think you can break it
6 down in some parts.

7 Each of the parts there's a lot of work has
8 been done, and so I hope this group with your short
9 schedule will really try to validate or un-validate
10 what's been done in a number of areas. I think those
11 areas are transport, standards, applications,
12 enterprise services, core services and economics and
13 funding.

14 A lot of work has been done on some and
15 almost no work has been done on others. On transport,
16 the most important thing I think you could contribute
17 is to tell emergency medicine and public health to
18 stop trying to be special. Just be like everybody
19 else. For transport purposes, for network purposes,
20 the last thing you want to do is to have your own
21 network.

22 The last thing you want to do is build
23 another stovepipe. You don't need your own network.
24 You want to have a network that everybody else is on
25 so you can share it. It's much easier to share

1 information if you're all using the same emergency
2 response network, and using international standards
3 hopefully and using that wonderful Internet Protocol
4 that everybody can talk in.

5 At the standards layer part of that is true
6 as well. You don't want to have your own standards.
7 Hopefully you're using other peoples' standards, like
8 TCP/IP, and SIP and the other voice over IP standards.
9 It's at the application layer where there's some
10 specialness to what each of the domains is doing, but
11 up to this point we haven't kind of broken those out.

12 Whether we are fire, or we're police, or
13 we're EMS, or we're hospitals, we tend to talk about
14 the whole thing as if it's ours and then ours will
15 meet theirs. What I'm saying is at the transport
16 layer that shouldn't be the case.

17 If you then think about this as an
18 enterprise, you think about if you were General Motor
19 and you thought about look at the world the way they
20 have, they haven't just tried to link all General
21 Motors facilities, they've tried to link their
22 suppliers and their customers.

23 So if you think of this world we're in as an
24 enterprise with emergency medicine being a critical
25 part of a bigger enterprise you'll start looking at

1 the things in the middle that are necessary to run the
2 enterprise, and that is a big gap. It's one we care a
3 lot about, we spend a lot of time on it, we have some
4 processes going that we'd like to invite you to
5 validate or kick around, and I'll talk a minute about
6 them.

7 The last one is one that I don't think
8 anybody's done anything about, and that's economics
9 and funding.

10 So the last thing I'm going to come to is to
11 suggest to you the major contribution of this group
12 could be to launch some analysis because at the end of
13 the day we can talk all we want to about saving lives,
14 but the people making the decisions here are writing
15 checks and we need to show them that the checks
16 they're writing make sense and are being done in a way
17 that either will produce a return on investment or are
18 justifiable.

19 I already talked a little bit about this
20 slide, but in thinking about what transport is I think
21 architecturally you want to announce that each part of
22 the people represented here is nothing more than a
23 node on the network. You're an important node. You
24 can be a really important node, or a kind of important
25 node, or a not so important node if you're a towing

1 company, but you're still a node.

2 Architecturally there are a lot of you. In
3 fact, there's 100,000 emergency agencies in this
4 country before we get to the AT&Ts of this world, and
5 the television stations and the others who need to be
6 in it. If architecturally we can think about them all
7 being the same so there's agency in, it's a lot easier
8 to figure out how to have interoperability and share
9 information.

10 That's not to say that everybody has the
11 same rights at all, but architecturally you can link
12 them together. Second, if you look at agencies first
13 there's already fiber everywhere thanks to the
14 exuberance of the end of the last century. We got
15 lots of dark fiber in the ground all over the place.

16 Yes, there's a few places way out in rural
17 America, but most places are close to fiber, and
18 indeed, most places are close to private networks
19 owned by states, or private networks owned by cities,
20 or private networks owned by the DOT. There's a lot
21 of network capacity out there. We just need to get
22 agencies to connect to it.

23 It's not that hard, particularly if we get
24 people to focus on sharing networks. In Indiana, the
25 911 people have put together their own statewide

1 network. Great idea. They've really cut their costs.

2 But why 911 should have a statewide network when they
3 use about this much capacity makes very little sense.

4 All emergency response agencies in that
5 state would make a lot more sense and would cost this
6 much more. Those networks need to be run at a much
7 higher level than they are now. We have a phenomenal
8 communication success story in this country. It's
9 called commercial communications. We should look at
10 that and copy that.

11 They do not run local networks, they run
12 regional and national networks. That's what we should
13 be doing in emergency response, and you can't do that
14 as a single domain and you can't do that on a local
15 level. Finally, I would suggest that we should follow
16 Morgan. Some of you know Morgan O'Brien. He's spent
17 a lot of time in this room convincing the FCC of some
18 radical ideas.

19 What Morgan did was basically single
20 handedly revolutionize emergency communications. Up
21 until Morgan O'Brien came in with his Cyren Call
22 proposal a little more than a year ago we did
23 emergency communications one way. We did it all
24 locally. We gave out the goodies that the FCC hands
25 out as spectrum, incredibly valuable stuff, and we

1 used to give it out locally and not even just locally.

2 We'd say you're the local police, you get
3 some, local fire gets some. Morgan came up with this
4 plan, and without going into the gory detail because
5 they've cleaned the blood off the rug here, a year's
6 worth of lobbying and fighting, but we now have
7 separate content from carriage. We're just talking
8 about a network.

9 He's not talking about what goes over the
10 network. It's national. The new public safety
11 network is national. The leaders of public safety,
12 instead of worrying about running a network, how to
13 run a network and who owns the network, they're not
14 owning it. What they're doing is setting the
15 requirements for it, which is terrific.

16 That's exactly what they should be doing is
17 setting requirements. Morgan got a process going that
18 knocked down the wall between public and private.
19 We're going to share spectrum between public and
20 private, which makes it a whole lot cheaper for the
21 public folks to be on it, but because of the wonders
22 of IP they'll be able to have higher rights when they
23 need the higher rights.

24 Incredibly, the other neat thing about that
25 is there was a time when in the wireless area public

1 safety had the best stuff, they had the cutting edge
2 stuff, and that passed about 15 or 20 years ago.
3 There are now 300 million users in the United States
4 of wireless phones or so, a billion worldwide.

5 That R&D machine is cranking out new stuff
6 all the time, and Morgan has come up with a plan that
7 the benefits of that, both in terms of R&D and the
8 economies of scale and purchasing, are going to accrue
9 to the emergency response community in this broadband
10 network.

11 So thank you, Morgan, for doing that. He
12 talked a handful of public safety leaders into
13 supporting him and he couldn't have done it without
14 them, and so they did that and we should copy it. We
15 should copy that model for everything else we're
16 doing. I commend it to you, but let me be very clear
17 I'm only talking about networks, I'm not talking about
18 information.

19 Control of information should be local. How
20 the information gets to places is regional and
21 national. What you do with it -- emergency response
22 has always been local and it should stay local.
23 Standards, one can go to sleep on standards very fast.
24 The point I would like to leave you with here is that
25 there needs to be a major effort by the emergency

1 medical community to link to the nonmedical emergency
2 communities to share some standards.

3 If you don't do that then you can't
4 communicate about incidents. Police, and fire, and
5 transportation, and emergency managers, all those
6 people have a lot to say to you and you have a lot to
7 say to them about how a response gets handled. So the
8 DHS process that Kevin, and I and some others have
9 been involved in of producing data messaging standards
10 across all domains is a terrific thing, and it needs
11 to go forward.

12 There will be a standard voted on early next
13 year called HAVE that will report between 911 and
14 hospitals how many beds you got, what specialties you
15 have available, what the status of the hospitals is.
16 There's a perfect example of what I'm talking about.
17 That effort is funded at a level that is an
18 embarrassment. As a taxpayer I'm embarrassed by.

19 I'm on the board of an organization and we
20 just paid for consultants to move that process forward
21 because DHS wasn't putting the money behind it. So I
22 hope one of your recommendations is that there be a
23 serious effort in this all domain field behind a good
24 program that is just ridiculously underfunded.

25 One that is not underfunded is the one we're

1 involved with with HHS on the HITSP standards. They
2 got a lot of people, a lot of emails. I mean, it just
3 chews up hours a week where they're trying. What
4 they're missing there is people like you. It's
5 fascinating.

6 As they expand into the emergency side of
7 electronic health records and start doing what we've
8 been looking for for patient tracking, which is
9 standards for patient tracking, there are not a lot of
10 emergency people at the table. A lot of hospital
11 people, lot of public health people, not a lot of
12 emergency people.

13 So there are actually today, and tomorrow
14 and the next day in Chicago a lot of emergency people,
15 so I think we've kind of fixed that problem. Last
16 point on standards is there needs to be some common
17 dictionaries. Person is a word that goes across all
18 domains. Identity is a concept that goes across all
19 domains. You need to know identity for your purposes,
20 cops need to know it for their purposes, Red Cross
21 needs to know it for family reunification purposes.

22 We need some words that go across all
23 domains. Again, there was an effort to do that called
24 NIEM at DHS, again, underfunded, again, needs to cover
25 everybody. There need to be significant numbers of

1 people like you or your organizations in that process.
2 So it's a basic plumbing issue. People bow to
3 standards, but it takes work.

4 One final thing is you cannot expect the
5 emergency professions to participate unless they're
6 funded. These standards we've got to get done fast.
7 The federal government two years ago made a commitment
8 with us to hand money out to Kevin's group, and the
9 911 group and others to pay their airfares, to pay
10 their time to participate.

11 Not to pick on Harris, but Harris has 50
12 people who do nothing but standards in different
13 areas, and they go to all these meetings. We need to
14 do that for the emergency response as well. I just
15 threw this up because we spend all of our time in the
16 industry talking about the top line.

17 Everybody talks about computer aided
18 dispatch systems, or emergency operation center, or
19 run report, you know, what's the right PDA to record
20 the information or how do we get traffic data? A lot
21 less attention gets spent as you go down and none
22 pretty much is getting spent at the bottom.

23 The reason is the more you go down the less
24 individual value it is to a domain and the much
25 greater it is to the whole, that is there is a line of

1 business service called NLETS. The cops figured out
2 they wanted to share warrants. Okay, they've got a
3 service to do that, but imagine a mapping service
4 that's shared by everybody.

5 If you measure total cost of ownership you'd
6 save a hell of a lot of money if everybody shared a
7 GIS system, but there's nobody in charge of everybody
8 so it's harder to measure those savings. Similarly,
9 you get to the bottom and you start talking about core
10 services, shared identity rights management.

11 That would be a huge step forward in patient
12 tracking to be able to know what identity, but also in
13 radio interoperability. So those bottom services are
14 ones that we think are worth focusing on. IP. We
15 need to get over the debate about IP. There is still
16 pockets of fear about InternetPprotocol. I don't know
17 why.

18 If it's good enough for Wall Street and the
19 Department of Defense it's good enough for me. If
20 it's good enough for the rest of the world it's good
21 enough for us. We need a common language, and the
22 world has produced one for us. It's called Internet
23 Protocol, so let's just use it. Every telephone call
24 that originates on GSM, or CDPD, or, you know,
25 wherever it is it's converted into packets at some

1 point to move around.

2 I don't know why we don't just do that for
3 everything. Radio interoperability. Radio
4 operability is a very important issue. You can't
5 function as a first responder without a good radio.
6 We ought to address that problem. If you need a
7 radio, we ought to buy you a radio. But that's not
8 interoperability and it has very little to do with
9 interoperability.

10 If we want interoperability fast and cheaply
11 what we need to do is to look at the landscape and see
12 that Lisa does not carry a \$4,000 radio on her hip,
13 and she never will I don't think. She probably
14 carries one of these. Other people sit at desks with
15 telephones. The new state police P-25 radio system is
16 equipping the state police in North Carolina with
17 Viper radios, and they're delighted and that's great.

18 Maybe Carl's going to get a few for his
19 people. That's fine. They've got those. I'm from
20 Charlotte, and I can tell you the communities around
21 the Charlotte area can't afford those radios, so
22 they're going to stick with what they've got for a
23 while. So how are we going to tie all those together
24 in the next year?

25 There's one way, and it's simple: IP. We

1 can do this if we focus on interoperability. The
2 military is doing it in Iraq and Afghanistan. We can
3 just copy them. Now, is that perfect? No. Does it
4 address operability issues? No. But if we convert
5 everything at IP we can do lots of interesting things.

6 I forced myself through a calculus of three
7 year per user cost of interoperability, and if you do
8 it with IP you're in the range of two to three percent
9 of what it takes if you buy everybody a new radio.
10 Now, you're not going to buy everybody a new radio is
11 the point.

12 You're going to buy a new radio for the
13 person that needs a new radio, the state patrolman,
14 the fireman. You're going to buy them a new radio.
15 There are a lot of you that need to interoperate, not
16 the least of which is the public needs to be able to
17 call in. We need to recognize that everybody is on
18 different timetables.

19 We're not going to get everybody. Even if
20 we had total money, any amount of money, it would be
21 spent on the different. So everything over IP is the
22 mantra that's coming out of DOD, and I think it's a
23 pretty useful one. Core services. Simply, we've got
24 papers out the kazoo on this. I'm not going to spend
25 a lot of my time on it.

1 It's just if you want to communicate with a
2 lot of parties you've got to know who the parties are.
3 You've got to have a registry of who the heck the
4 parties are and what information they want, and we
5 don't have one. We designed one. We have a process
6 going forward with NENA. and with the State Fire
7 Marshals and with OGC to trial that.

8 We'd delighted for you to validate the
9 requirements we're using and see if they apply to you.
10 Similarly, you can't have everybody interoperable and
11 not have a rule book. You've got to have rights
12 management, you've got to have access control. What
13 is Karen allowed to do, not Karen, but what is the
14 University of Texas, Galveston, allowed?

15 What messages are they allowed to send?
16 What messages are they allowed to receive? You just
17 need that, and nobody's working on that. Those two
18 issues are huge and need to get solved. If you have
19 the software to do that then you can deal with the
20 real issue which is force leaders to get around the
21 table and tell you what the policies are.

22 All I was just talking about before is
23 you've got to have the software. Now that you've got
24 the software you can get people in a room and say
25 okay, what is our policy here in Winchester about

1 sharing crash information? Instead of somebody saying
2 well, we can't share because we don't have the
3 systems, you can say yeah, we can share now.

4 So when somebody says well, they can now say
5 they don't want to share, okay? They can say that,
6 and they can record that policy. Much more likely you
7 can put together systems. A good example is in the
8 State of Virginia, Virginia hospitals are willing to
9 share detailed information about their bed
10 availability and service availability in a disaster.

11 They're willing to share that with Lisa, and
12 with their colleagues, and with 911 and everybody
13 else. As soon as that disaster is over they are not
14 willing to share at all. They're willing to share if
15 their emergency room is on surge and that's it. Okay,
16 that's fine.

17 All we need is a rule book that says push
18 the button when that incident happens, and the data
19 can now flow. We don't have that. If we get that
20 going, then we can start having a really interesting
21 discussion of how would we do things differently? I
22 mean, the neat thing about that little movie is we did
23 something different.

24 An aircraft got sent before there was
25 somebody on the scene saying we need an aircraft. So

1 you experts in the field can start talking about the
2 neat new things that we could do in the future. Peter
3 Letarte who is a brain trauma person, who you could
4 tell a brain trauma person worked on that video, has
5 all kinds of ideas as to how he can change his
6 practice based on this.

7 Then over time we can start refining. Carl
8 has spent a lot of his time on emergency medical
9 dispatch upgrading the protocols. We can do almost
10 real time education and upgrade of protocols with this
11 kind of a system. So bottom line, please treat safety
12 as a virtual enterprise. Please call it a virtual
13 enterprise, please call it a safety enterprise and do
14 total cost of ownership as if it were one.

15 It isn't going to be one, it's going to have
16 a lot of different owners, but you folks coming
17 together can treat it as one and say let's look at
18 this thing overall. Then, separate the network from
19 the data going over it. Don't let somebody say well,
20 we've got to have a network for alerts, and then we've
21 got to have a network for weather or we've got to have
22 a network for HazCollect.

23 Then, think about interoperability and all
24 its forms. Don't let somebody say well, we're just
25 talking about interoperability of voice for first

1 responders. No. It's much bigger than that. We're
2 not just talking about wireless, talk about
3 interorganization. Look at the legislation.

4 How many times do you see in the legislation
5 you can spend the money on equipment? Well, my small
6 agency has 20 employees and we can't afford equipment.
7 What we would like to do is to buy a managed service.
8 We would like to pay a monthly subscription to get
9 this service, whatever it is, from a company.

10 According to Congress, most of the laws that
11 Congress has passed, I can't do that. I have to buy
12 equipment, which guarantees that small agencies either
13 don't get what they need or that they buy something
14 that the vendor told them to buy that's more expensive
15 than it needs to be.

16 Perfect example is radio over IP. Radio
17 over IP is terrific stuff, and it ought to be all over
18 the place. Most of the departments out there can't
19 take that piece of software, download it onto the
20 server and manage it. I was having real trouble
21 getting the spacing on my slides done at 2:00 this
22 morning, I'm going to manage a radio IP? No.

23 This guy could manage it. This is Stacy
24 Black from AT&T. Phone companies do that, IT
25 companies do that and let me pay a couple hundred

1 bucks a month for a subscription. I mean, we need to
2 open up how we do this. Planning. There is simply no
3 reason why we're funding with our tax money state
4 emergency interoperable committees that do not have
5 full representation from every emergency response
6 profession sitting on them.

7 The new laws are starting to be more
8 inclusive, but in the field they are not. The reality
9 of this is that there is some representation, but
10 they're not full. Plus, you know, at the federal
11 level DHS and HHS need to get together, and they need
12 together with -- Drew's running the 911 project.

13 Next generation 911 is as relevant to this
14 topic as anything I can think of. Hopefully it's not
15 going to be next generation 911, hopefully it's going
16 to be next generation emergency communications.
17 There's going to be legacy equipment. One of the
18 things I really encourage you to do is to assume that
19 nobody's going to buy any new software, nobody's going
20 to buy any new equipment.

21 Just assume that for the moment. We know
22 that won't be true, but the legacy systems have got to
23 work with this system. It's not that hard. They're
24 all Windows based. Just make them write a damn
25 interface. In order to do radio over IP buy a

1 gateway. Costs \$1,500. Put in a gateway.

2 I got one in my living room, you know,
3 converts the cable into IP. Focus on what's in the
4 middle: shared services, core services and then the
5 policies. Local and state governments. There's a
6 real tendency here to go to the feds and point their
7 figure at if only DHS would do this then we'd be fine
8 or only HHS would do this and we'd be fine.

9 Emergency response has been a state and
10 local function forever. I don't know when it became a
11 federal one. It isn't a federal one, so state and
12 local ought to be really taking charge here. The
13 mayors ought to take charge, the governors ought to
14 take charge. Why we expect the police, or fire, or
15 EMS to lead on interoperability is beyond me.

16 Why we blame them for not doing so is beyond
17 me. Kevin's job is to do EMS, it's not to be
18 interoperable with somebody else. Somebody at the
19 core center needs to have that responsibility. That's
20 why we elect Presidents, and Mayors, and Governors and
21 people like that. So it's those folks. Plus, we need
22 then total cost of ownership and focus on outcomes.

23 We are looking at this in terms of well, 911
24 got the call answered quickly, or EMS got the guy to
25 the hospital quickly. I don't care. I'm having a

1 heart attack. It's an end to end thing that we need
2 to have. I've said it before, I'll just stress it
3 again. We've got to get the networks at much higher
4 levels while the locals worry about what to do with
5 the data.

6 Feds, come back and beat on you a little
7 bit. You've got to mean it when you say all hazards.
8 The number of times when somebody has said yeah, all
9 hazards, all hazard, but we really mean terrorist or
10 we really mean disasters. The first responders are
11 the same, the equipment's the same, the ambulance is
12 the same, the hospital is the same.

13 The hospitals don't double their size. The
14 federal programs, I mean, I was in politics the first
15 10 years, I was on the government side the first 10
16 years. I understand that government programs reflect
17 lobbying, but at some point somebody's got to stand
18 back and say okay, enough already, we need to get
19 those programs together.

20 DHS is funding IPAWS, which is alerting,
21 HSIN, which is supposedly a network, it's a portal,
22 they were funding until last week something called
23 OPEN, which is a competitor, and now I read that
24 they're going to fund \$100 million, \$200 million
25 network linking together EOCs. That's all coming out

1 of this, mostly out of FEMA.

2 We've got all these different dictionary
3 programs going on. HITSP, NIEM, Global Justice.
4 SAFECOM has been focused on radios. It was focused on
5 voice, then it's doing a little more data, and then
6 they include a cabinet and a few other people, so
7 they're expanding out from there. Then we go over to
8 Department of Commerce and we've got HazCollect.
9 What's that all about?

10 Dawson is over here spending, what, \$300
11 million on -- no. Nobody's funding the middle.
12 There's very little funding of standards, there's very
13 little funding of core services. Just a final thing
14 there, we need to stop buying proprietary
15 applications. Nobody should be allowed to buy with
16 our money should buy anything that is not fully
17 interoperable and meeting all the standards.

18 Finally, occurred to me that we're talking
19 emergency medicine. The biggest federal funder of
20 emergency medicine is Medicare and Medicaid, and
21 they're not here and they're not out there where I'm
22 working, so I would hope they would show up. We have
23 projects in core services on patient tracking, on
24 standards we would love to put in front of the
25 appropriate people here.

1 We'd love for you to look at what we've
2 done. The NRIC VII 1D report that I was coauthor of
3 is a useful document. There's a lot of stuff that's
4 been written on what I call plumbing issues. I hope
5 that you can take a look at that. I appreciate the
6 time. I think I've probably run over my time as I
7 usually do, but I appreciate your indulgence. Thank
8 you.

9 MR. BUGEL: Thank you, David.

10 Any questions for Mr. Aylward from the
11 committee? If you do, please state your name first so
12 we can record it.

13 (No response.)

14 MR. BUGEL: Well, David, you've left them
15 speechless.

16 Mr. Roskind?

17 MR. ROSKIND: My group is going to be
18 Technology Integration. I really liked your
19 presentation, and I agree with almost all of what you
20 were saying. I would invite you to present a white
21 paper synopsis that you'd like us to incorporate into
22 our working group's recommendations.

23 MR. AYLWARD: Delighted. Thank you.

24 MR. BUGEL: Yes, Mr. Traficant?

25 MR. TRAFICANT: I have a question. David,

1 one of the questions I had, and I guess it's going to
2 be one that will persist for me is as we start looking
3 at where do we find an answer to go attack the middle
4 for some of these core services, who is responsible
5 for making that happen? Where do you go to the
6 decision making authority to get at that?

7 MR. AYLWARD: This is fundamental.
8 Absolute, the fundamental question. The answer is
9 Pogo had it. We have met it. It's us. This is not a
10 federal issue, and it's not a local issue, it's not a
11 state issue, it's not a private issue, it's not a
12 public issue. It's us. Who sets up, designs and runs
13 the directory of all of the agencies?

14 We call it EPAD. We had one answer when we
15 started doing it four years ago in thinking about the
16 answer to that question, and in the last year we've
17 come up with a very different answer. We think that
18 the idea initially was let's set up a not for profit
19 that owns each of these core services and have
20 everybody kind of be on the board and because it's a
21 community utility have the directory shared.

22 We then came to the conclusion that it was
23 probably better to have the same kind of community
24 come up with standards and then let you build one, and
25 you build one and you build one in different parts of

1 the country and then they could intercommunicate, the
2 model being the Internet.

3 There's a domain name server. We've got a
4 bunch of domain name services, dot com, dot org, dot
5 biz. The Internet couldn't run without them. There
6 are different ones owned by different companies, but
7 they all made a standard. So we're engaged in exactly
8 that process of setting the standards, developing the
9 standards after having spent a couple of years
10 knocking on Mike's predecessor times four doors saying
11 gee, the feds should do this.

12 Economists have an expression for this. I'm
13 not an economist, so I've forgotten the expression,
14 but it has to do with that common value. It's not
15 worth enough for you to do it, it's not worth for her
16 to do it, but if we all got together it would be worth
17 a dime and we would all benefit. So it's something I
18 think we've all got to do together, and we invite you
19 to join in.

20 MR. BUGEL: Mr. McGinnis?

21 MR. MCGINNIS: David, from the Emergency
22 Medical Working Group I'd like to also extend an
23 invitation. Your thoughts on networking at higher
24 levels, intriguing and definitely something we need to
25 look at. Would you be willing to give some thought to

1 the current opportunities that are before us in the
2 new 700 single licensee national network, what
3 opportunities there might be for emergency medical to
4 take advantage as a part of that network, and present
5 us some recommendations?

6 MR. AYLWARD: I'd be delighted to, and I
7 would advance it one step which is the two key
8 agencies in this room, DHS and Department of Commerce,
9 will start deciding on December 3 whether to approve
10 state plans for interoperability.

11 If they don't, if they don't read those
12 plans carefully and those plans do not include you,
13 then I think one hell of a stink ought to go up,
14 number one, and number two, because that precedent is
15 exactly what will be feeding into the next layer,
16 which is what you're talking about, which is on a
17 concurrent path people are developing the requirements
18 for that system, and, yes, you need to be at that
19 table.

20 I'd be delighted to do anything I can to
21 help you be there.

22 MR. BUGEL: Jim?

23 MR. CORRY: I'm Jim Corry from MSV. I
24 really enjoyed your presentation, also, but I'm just
25 kind of interested in your personal realistic

1 assessment of all that. I've been retired from the
2 government for nine years, and when I first came to
3 the wireless industry nine years ago one of the first
4 research products I was given when I went to work for
5 CTIA was to work on the topic of digital divide.

6 I think there is a divide. You pick any
7 community, any technology and there is an equivalent
8 of the digital divide between urban areas and rural
9 areas. There's the haves and the have-nots. I see
10 all this, but almost feel like realistically for the
11 next 30 years all that you're advocating really is
12 only ever going to be brought to bear in wealthy,
13 urban communities.

14 MR. AYLWARD: Let me make the opposite case.

15 MR. CORRY: The reason I say that is that
16 I've already bought the retirement property not two
17 and a half hours from here that we intend to retire to
18 when my wife can retire from the government, I can't
19 even get a DSL line. I mean, my only hope for even
20 high speed email is if I go to a satellite company
21 that's providing that.

22 I do not see in the foreseeable future, if
23 not even in my lifetime, any hope two and a half years
24 from now where I've got my farm of even having a
25 paramedic level first responder come and get me when

1 my pacemaker blows out or it comes that final time for
2 me. So I was just saying if you could give me a
3 realistic assessment of all this incredible stuff you
4 were talking about?

5 MR. AYLWARD: In two pieces let's take all
6 those communities that have high speed broadband today
7 and measure the number of the populous that is covered
8 by that, and I bet you it is over 90 percent.
9 Therefore, the question is okay, how do we get those
10 kind of services into 90 percent of America?

11 I care about the 10 percent because I own
12 property just like that until we moved to be near
13 grandkids, which is the biggest draw in the world, so
14 I've thought about that problem. The 90 percent is
15 pretty straightforward.

16 When I talk to the Harris Corporations and
17 the others like them and say look, come to this
18 market, here's a really cool market, nobody is doing
19 modern IT in this market, look at all these agencies,
20 they go you've got to be kidding, this is 100,000, I
21 don't have the sales force to go knock on all those
22 doors, I can't do this, I'll go to New York, I'll go
23 to L.A., I'll go to Washington.

24 That's what you're talking about. That's
25 just a sales model. What hasn't yet happened is

1 somebody deciding that they're going to get rich by
2 doing it a different way.

3 I think that rural America could get those
4 services faster than New York City because when I go
5 to Winchester, Virginia, to talk about this kind of
6 stuff the police chief, and the fire chief, and the
7 emergency manager and the head of the hospital, you
8 saw them on that movie, they're all sitting around at
9 the table, they're all friends, they want to work
10 together, they want to do new stuff.

11 You call that meeting in New York, they
12 won't come. Number one. Number two, you can't go to
13 Winchester and sell it, it's too expensive. So Harris
14 ought to set up a new product which is selling the
15 service, a computer aided dispatch system offered
16 online.

17 ASP basis, managed service, where all I got
18 to do is have a broadband connection, a thing in my
19 ear and a computer screen, and I can get modern voice
20 over IP, everything that you saw there, and I don't
21 have to do any software at my end. All I got to do is
22 have a broadband pipe. If I'm smart, I'll have a
23 back-up one with a satellite.

24 MR. BUGEL: David, you almost close to done?

25 MR. AYLWARD: Yes.

1 MR. BUGEL: Okay.

2 MR. AYLWARD: Managed service. In your part
3 of the world, use a satellite. For the 10 percent,
4 use a satellite. That is not the problem it was when
5 you went to work at CTIA. It's a much bigger problem.
6 We didn't have wireless everywhere. I mean, that
7 problem is solving itself pretty fast.

8 MR. BUGEL: Okay, David, thank you very
9 much.

10 MR. AYLWARD: Thank you.

11 MR. BUGEL: You obviously provided us with a
12 lot of input, a lot of things for us to consider. I'm
13 going to exercise chair privilege here and call for a
14 five minute break with hopes that everybody will be
15 back in 10 minutes. So it is now 12:10, let's
16 reconvene here at 12:15, 12:20 if we possibly could.
17 Thank you.

18 (Whereupon, a short recess was taken.)

19 MR. BUGEL: I would like to reconvene the
20 meeting. I'm going to ask a procedural question.
21 Lisa, relative to requests by the working group or
22 working group chair to provide evidence to the
23 committee, does that go through the commission and be
24 posted on the comments cycle?

25 MS. FOWLKES: If people want to send any

1 comments?

2 MR. BUGEL: Yes.

3 MS. FOWLKES: What we've said in the public
4 notice is that they should send them to me and to
5 Eric, and we will get them to you and make sure that
6 they're posted on the web.

7 MR. BUGEL: Right. So basically, the
8 comments that you request will be sent by the
9 witnesses to the FCC and then they will post them on
10 the website in the comment section for everyone to see
11 as a public process. Okay. We also have with us Jay
12 Sanders from the Global Telemedicine Group.

13 Mr. Sanders? Thank you.

14 MR. SANDERS: Thank you, Mr. Chairman, thank
15 the committee for allowing me to share my views on
16 these critical issues. I was actually hoping somebody
17 would ask because I have been working on the issues
18 that you are addressing for over 35 years.

19 My feeling is that telecommunications is
20 fundamentally the umbilical cord not only for
21 emergency medical services but for day-to-day health
22 care in this country. David has made it very easy for
23 me, and in hearing each of you identify your
24 backgrounds it's even much easier because I have a
25 feeling that I will probably be simply underlining

1 many of the things that we all share together.

2 I would actually like to begin with a
3 disclaimer, a request, a hope and a prediction. The
4 disclaimer is I'm a physician, I'm not a technologist.
5 What I know about technology will get us all into
6 trouble. What I do know a lot about are what the
7 needs are, and I also know a lot about what type of
8 functionality the technology needs to provide to
9 address those needs.

10 I also know what the infrastructure needs to
11 be. You've heard most of the issues with regard to
12 interoperability, with respect to standards, with
13 respect to redundancy, with respect to the operational
14 integrity. It needs to run like a utility. If I turn
15 that light switch on, the light goes on. It can't
16 take days, it can't take months to set up.

17 That is a very critical issue. What I
18 haven't heard yet is the need to recognize the legal
19 and regulatory constraints that we now deal with. In
20 a mass casualty with a radiation laden cloud or
21 pathogenic microbes these agents are not going to
22 respect state boundaries, and we need to deal with
23 those legal and regulatory issues.

24 From a request standpoint, and I've actually
25 heard a response to this already, I'd like you to

1 perhaps broaden your definition of: 1) who you define
2 as an emergency medical personnel; who you define as a
3 first responder. I think we have all too often
4 forgotten about the fact that the corporate community
5 in this country needs to be identified as a first
6 responder.

7 I think our schools need to be identified as
8 first responders. Quite candidly, while each of us
9 can become victims, each of us can in fact with the
10 appropriate communication infrastructure become first
11 responders in our home or in our work site.

12 My hope, and I think this was reflected in
13 David's remark, is that the end result of your 90 day
14 working objectives will generate enough political
15 bandwidth to provide the funding to develop the types
16 of systems that we need.

17 My prediction is that if you do it right 10
18 years from now medical historians will not be talking
19 about your having developed the emergency medical
20 health care infrastructure, they will talk about your
21 having developed a national health highway system. I
22 take you back to the mid-1990s when President
23 Eisenhower signed the National Highway Act.

24 As you all know, it was not signed and
25 developed initially to develop our transportation

1 system and our commerce system in this country. It
2 was designed because he was concerned about the
3 ability to move military personnel from the Atlantic
4 seaboard to the Pacific seaboard.

5 Based on the state of the roads at the time
6 it took too long, so he created the National
7 Transportation System, the National Highway System,
8 for the wrong reason. It became the greatest economic
9 stimulus to this country. I would anticipate that
10 what you are focusing on today in terms of an
11 emergency medical system will in fact 10 years from
12 now be a national health highway system.

13 Now, I'm here wearing three hats. First hat
14 is as a physician. I'm a professor of medicine, I'm
15 an internist, I'm boarded in immunology, I've run a
16 major department of medicine at the University of
17 Miami, Jacksonville Memorial Hospital, I helped start
18 with Dr. Eugene Nagel the second EMS system in this
19 country in 1970 in Dade County, Florida, I have run an
20 intensive care unit, I've run an emergency room, I've
21 taken care of patients who have been in major trauma.

22 Those of you who will recall the L-1011
23 Eastern Airlines crash in the Everglades a number of
24 decades ago, I was involved in that running the
25 Department of Medicine at Jacksonville Memorial

1 Hospital and working with our trauma team in the
2 Emergency Department.

3 I've also been a victim of major trauma
4 having been in Hurricane Andrew and affected by that.

5 I've taken care of patients with anthrax, I've taken
6 care of patients with Dengue, I've taken care of
7 patients with malaria, with drug-resistant
8 tuberculosis and with MRSA, Methicillin-resistant
9 staph aureus.

10 Long before it became news headlines we have
11 been dealing with that. I've taken care of patients
12 who have been exposed to malathion in the south Dade
13 farmlands, which are the equivalent of sarin gas
14 exposure.

15 I know the needs of emergency medical
16 services in this country, but I also am very aware of
17 the fact that one of the things I hope we do not lose
18 sight of when we're talking about major traffic
19 accidents, whether we're talking about a dirty bomb,
20 whether we're talking about flu pandemic, is the fact
21 that we have invisible emergencies in this country
22 every single day that unfortunately we don't pay
23 enough attention to.

24 What do I mean by that? What I mean by that
25 is the fact that there are people dying every single

1 day in the United States because of lack of access to
2 health care. I am talking about the fact that people
3 are dying of sudden cardiac arrest, or myocardial
4 infarctions, or their stroke because they haven't had
5 access to effective care.

6 The fascinating thing is that doesn't get
7 headlines, and yet, if you take a year's period of
8 time and add up all the deaths related to those causes
9 they are much greater than any concern I have about a
10 flu pandemic in this country. The problem is they're
11 occurring over a longer timeframe, there are three to
12 four in multiple locations and that doesn't get the
13 same kind of headlines as a Katrina does.

14 They are equally if not more important
15 because they are happening every single day. I'm here
16 also with a second hat as a medical researcher. Since
17 the early 1970s, actually in 1973, I received one of
18 the first eight grants given by what was then HEW and
19 the National Science Foundation for a system called
20 telemedicine.

21 The first telemedicine funded grants from
22 the U.S. government occurred in 1973, and I had one of
23 those grants. I have been addressing maldistribution
24 of health care, whether on an emergency basis or a
25 chronic basis, ever since then.

1 I helped establish the first statewide
2 telemedicine system in 1991 in the State of Georgia
3 which were 59 sites that connected three academic
4 medical centers to nine secondary care community
5 hospitals, each of which were connected with four or
6 five primary health care facilities including public
7 health facilities.

8 I developed in 1993 the first what we called
9 electronic house call. This was the first
10 telemedicine technology to go into everyone's home.

11 One of the fascinating things that we
12 learned from those experiments, which are now going on
13 all over the world, is the fact that it's not simply a
14 convenience to put health care technology into an
15 individual's home, it is virtually from the medical
16 standpoint the only thing to do because we have
17 learned that the exam room has to be where the patient
18 is not where the physician, provider or nurse is.

19 I also helped start, and, John, correct me
20 if I'm wrong on the dates here, what was it, 1993 that
21 we started the American Telemedicine Association?
22 1993, and I was President of that organization in 1996
23 and I'm now President Emeritus of that organization.
24 Also, in 1996 for Secretary Shalala I represented the
25 United States in telemedicine to the G-8 nations.

1 My third hat is one as being a member of the
2 Board of Directors and Head of the Rural Health Care
3 Committee of the Universal Service Fund. Any comments
4 I make today should be viewed simply as educational.
5 I am not proposing anything at all. It is
6 inappropriate for me to do that.

7 One thing I do want to do and have on the
8 record is the fact that I applaud Chairman Martin for
9 the pilot program that he has initiated utilizing the
10 Universal Service Funds and the Rural Health Care
11 component to develop regional networks of
12 communication infrastructure.

13 My remarks will focus on an event which
14 began in October of 2001 when I was meeting with
15 Chairman Powell at the time and discussing the recent
16 9/11 event and the anthrax scare that occurred. I
17 asked Chairman Powell at the meeting as to what the
18 FCC was going to do with respect to the bioterrorist
19 event?

20 He asked me to clarify my question, and I
21 gave him the following example. I said if I were a
22 bioterrorist and I spent any time at all thinking
23 about how to be a good bioterrorist and I wanted to
24 spread anthrax throughout the United States the last
25 thing in the world I would do would be go to an urban

1 site.

2 The simplest thing for me to do would be go
3 to a feed lot some place in Kansas, like Garden City,
4 Kansas. Any of you who have ever been to Garden City,
5 Kansas, will know that it is a town that has a large
6 abattoir there and there are feed lots outside that
7 town which house between 150,000 and 250,000 head of
8 cattle two weeks prior to being slaughtered.

9 The only thing those cows eat are corn to
10 fatten them up from feed lots. There is no grass that
11 they have to graze on. If I were a smart bioterrorist
12 what I would do is simply drop my anthrax spores in
13 those feed lots. Now, I have seen patients with
14 anthrax. Respiratory anthrax can be treated if
15 identified within a 24, even 48 hour period of time.

16 GI anthrax is very difficult to treat,
17 particularly because it's very difficult to diagnose
18 before there's huge toxemia occurring. Now, why am I
19 talking about GI anthrax? Because once I drop it into
20 the feed lot of those cows and those cows are
21 slaughtered, 250,000 head, and those parts sent
22 throughout the United States, I have set up a
23 multistate anthrax epidemic, plain and simple.

24 Now, what is the most critical aspect about
25 identifying the victim with smallpox, the victim with

1 anthrax? What is most critical is immediate
2 diagnosis, immediate treatment, and in the case of
3 smallpox, of course, immediate isolation. We all
4 recall the multiple information sound bytes that we
5 got when the anthrax outbreak occurred.

6 We heard from Florida, we heard from the
7 CDC, we heard from NIH, we heard from General John
8 Parker at Ft. Detrick. Quite candidly, if you
9 listened to all of the information coming out, there
10 was a lot of misinformation coming out. It was
11 clearly reflective of the fact that we have very few
12 true experts to deal with some of these exotic types
13 of pathogenic microbes.

14 How do we get immediate diagnosis? The
15 simplest way to do that is to immediately get the
16 expert to that victim. How do we do that? We do that
17 electronically. You can't take the time to bring the
18 victim to the expert, especially if that only expert
19 is at NIH or at Ft. Detrick, and you can't bring the
20 expert out to that individual.

21 The proposal that I suggested at the time to
22 Chairman Powell is to use some of the funds, and I had
23 my USAC hat off at the time that I made the
24 suggestion, that we use some of the Universal Service
25 Funds to horizontally connect all of the vertical

1 stovepipe telemedicine programs throughout the United
2 States.

3 We've got a rich infrastructure on a state
4 by state basis of telemedicine networks. We need to
5 seamlessly connect them so that they are totally
6 interoperable so I can bring the expert to wherever
7 that patient is. The only thing we really needed to
8 do that was to take some of the Universal Service
9 Funds and apply it to connect horizontally all of
10 these vertical stovepipes in the various 50 states.

11 At the time according to the evaluation of
12 the Telecommunications Act of 1996 that established
13 the Universal Service Fund there was not a mechanism
14 to do that. However, Chairman Powell asked for a
15 White Paper, and since that White Paper could not come
16 from me from the Universal Service Fund I went to John
17 Linkous and that ATA.

18 We convened a workshop made up of members of
19 the ATA, made up of members from Ft. Detrick and from
20 CDC and drafted a White Paper that was submitted to
21 Chairman Powell at the end of November of 2001. He at
22 that point asked his Chief of Staff, Marsha McBride,
23 to establish basically a homeland security type of
24 infrastructure within FCC that was chaired by Marsha
25 McBride.

1 I made the suggestion that we now try this
2 possibility on a regional basis and perhaps go to the
3 Southern Governors Association and see if the Southern
4 Governors Association would permit the establishment
5 of a multistate telemedicine network to address
6 bioterrorism.

7 I met with the Southern Governors
8 Association in February of 2002 at which point they
9 provided a unanimous vote in favor of doing this.

10 We then subsequently briefed the new CIO of
11 the Department of Homeland Security at the time, Steve
12 Cooper, who also wrapped his arm about this, and we
13 also briefed the then Director of the Department of
14 Homeland Preparedness or the Division of Homeland
15 Preparedness within HHS, and, once again, the proposal
16 was embraced.

17 The only thing that was not available was
18 the necessary funding and somebody trying to find out
19 who had the funds to try and establish this on a
20 regional basis? We went so far within the Southern
21 Governors Association to actually have a test of a
22 smallpox epidemic involving four states, Missouri,
23 Kentucky, Virginia and Florida, which showed the
24 capability but also showed all the flaws in this.

25 This was I believe in, Lisa, 1993 that we

1 had the --

2 MS. KAPLOWITZ: 2003.

3 MR. SANDERS: Excuse me?

4 MS. KAPLOWITZ: 2003.

5 MR. SANDERS: 2003, right. Yes, 2003. It
6 also showed as I mentioned all of the potholes that
7 exist, but to me those were positive. Those
8 identified the things that we needed to work on.
9 Unfortunately, that proposal and that system
10 demonstration has just laid in the freezer since then
11 because of a lack of availability of funds.

12 I might also mention that the proposal that
13 was embraced by the Southern Governors Association,
14 and the head of that association at the time was
15 Governor Mark Warner, was then subsequently endorsed
16 by the National Governors Association.

17 So here we sit with one component of a
18 system that would be very helpful, whether we're
19 talking about day-to-day health care or whether we're
20 talking about mass casualty event, a very simple way
21 to deal with it and not the funding to do it. That's
22 why I indicated at the beginning I applaud Chairman
23 Martin's FCC pilot program initiative, which if
24 expanded and continued would have the wherewithal to
25 do that.

1 I'd like to conclude my remarks and remind
2 everyone of a quote by Winston Churchill after the
3 second world war was over and he was asked by a group
4 of reporters why he liked the United States so much,
5 and he said well, the reason I do is they always,
6 always come up with the right solution to a problem
7 after they've tried everything else. Thank you very
8 much.

9 MR. BUGEL: Thank you, Dr. Sanders. Any
10 questions for Dr. Sanders from the committee?

11 Mr. Griffin?

12 MR. GRIFFIN: Eric Griffin. In your past
13 experience with this you've been doing this, have a
14 lot of experience with it, what do you see as being
15 the top one or two issues getting the different
16 parties to come together on being able to implement an
17 effective telemedicine product program? I mean, is it
18 just equipment, or is it the policy, or about
19 standards?

20 MR. SANDERS: Well, I think David mentioned
21 in his comments that somebody was missing from this
22 table, and we've had great difficulty in getting
23 telemedicine funded, reimbursed, for the care that is
24 being given. For some reason CMS tends to define care
25 based upon its location and what provides the care as

1 opposed to the fact that care is simply being given.

2 If I can examine a patient in their home,
3 listen to their heart and lung sounds, look in their
4 eyes, ears, nose and throat, get all the digital
5 readouts from my medical peripheral diagnostic device
6 and prevent the readmission of that patient with
7 congestive heart failure and pulmonary edema because
8 I've picked up the fact that they just gained three
9 pounds overnight and I hear some rales in their lung,
10 for some reason that care because it's being provided
11 in the home, not that it's just the right care but
12 it's being provided in the home, is not reimbursed.

13 After many years of struggle we have gotten
14 CMS to reimburse for care to rural communities, but
15 that is not uniform either. So one of the issues
16 relates to the reimbursement aspect of it. A second
17 component is that there are no funds for really
18 regional connectivity. There just are not.

19 If I want to set up a telemedicine program
20 between an academic medical center, let's say Hopkins
21 where I have my present employment, and rural
22 Maryland, I can get Universal Service Funds to cover
23 the bandwidth infrastructure, but I can't get any
24 funds to pay for the equipment at the rural site.

25 This is not, this hasn't been mentioned and

1 I'm a little hesitant to mention it because it may not
2 be the direct focus, but what a lot of people forget
3 is bringing health care to rural communities isn't
4 just about bringing health care to rural communities
5 because it turns out that in rural communities the
6 rural hospital is the major employer in town most of
7 the time.

8 When that rural hospital's bed census goes
9 down because they don't have access to the
10 subspecialists, the cardiologists, as an example, or
11 the neurosurgeon, what they have to do fundamentally
12 is discharge that patient and send them to the
13 academic medical center or a secondary care community
14 hospital. Their bed census goes down and that rural
15 hospital goes under.

16 When that rural hospital goes under not only
17 have you destroyed the health care delivery system in
18 that community, you've destroyed the socioeconomic
19 fabric of that community. So this is not just medical
20 care, it is the socioeconomices. The other thing that
21 David alluded to if not said directly, we also need to
22 stop thinking about this as bandwidth and frequency
23 for health care.

24 There's a huge amount of bandwidth out
25 there. He mentioned the dark fiber, but I would also

1 underline the fact that the entertainment community,
2 the banking industry, the commerce industry, has huge
3 amounts of bandwidth out there, but we never think
4 about that and we ought to because there's a lot of
5 bandwidth that we could piggybacking on.

6 So there are a lot of resources. I don't
7 think it is the resources, I just think it's the kind
8 of inventory that we do and I think getting a small
9 amount of dollars to connect the types of systems that
10 we need.

11 Once again, I'll end with saying that while
12 everybody gets caught up with the thoughts of, you
13 know, a cloud seeded with radiation, or a smallpox
14 epidemic, or pandemic flu, the fundamental reality is
15 we're losing many more patients from day-to-day bread
16 and butter health care needs that they don't have
17 access to.

18 MR. BUGEL: Dr. Kaplowitz?

19 MS. KAPLOWITZ: I just want to kind of
20 expand your use of telemedicine because in emergency
21 situations we need those hospitals to provide surge
22 capacity, and so we need to be able to use virtual
23 ICUs, we need to be able to expand trauma care to
24 these facilities because as we found in April in
25 Blacksburg, you can't afford to transport those folks

1 40 miles when the helicopters can't fly, they have to
2 go to their closest facility.

3 Having those kinds of connections not just,
4 you know, what we consider classic telemedicine but
5 being able to transmit all that information and
6 enabling those facilities to provide trauma care is
7 absolutely key. It's just another part of what I
8 consider, you know, overall telemedicine.

9 MR. SANDERS: Absolutely, Lisa. I failed to
10 mention that at the University of Miami I was not only
11 a Professor of Medicine, I'm Professor of Public
12 Health and Epidemiology. Flip the coin a second.

13 We're often thinking about providing
14 expertise to the rural hospital utilizing
15 telemedicine, that was our initial focus, but think
16 about the fact that if, for instance, let's say I'm at
17 the Mass General right now and into the ER walks a
18 patient who after we have realized that's not chicken
19 pox, that's smallpox, what has just happened?

20 I've closed that hospital. That hospital
21 has got to be quarantined. I've now lost that
22 resource. Now, who takes care of the daily patients
23 that walk in to the emergency department? I actually
24 see the system working a two way street.

25 I now can use resources from rural hospital

1 primary care docs to take care of the daily walk in
2 patients that normally would be coming in to a mass
3 general hospital and now cannot because they've got
4 quarantine. So I think this resource is a two way
5 type of street in terms of the redundancy that we
6 need.

7 MR. BUGEL: Mr. Linkous?

8 MR. LINKOUS: Thanks. I might just add one
9 thing to one of the things that you were saying, Jay,
10 about what's happened to some of the legislation. Two
11 years ago Senator Burr introduced the Pandemic Health
12 Act which did get proposed, and in that act it did
13 include, you may know, I don't know, some of the
14 language from our original proposal that the Southern
15 Governors had talked about an inventory and linking
16 some of the networks.

17 I believe it's over in HHS now for
18 implementation. Unfortunately, there's no money for
19 that of course for implementation, so once again,
20 we've got some approval, some agreement, but resources
21 tends to be where the problem is.

22 MR. BUGEL: All right. Well, Doctor, thank
23 you very much. We really do appreciate you coming in
24 to speak to us. Don't be surprised if we reach back
25 to you.

1 MR. SANDERS: Thank you.

2 MR. BUGEL: I'd now like to bring up Mary
3 Ellen Hennessy and Ivan Gotham from the New York State
4 Health Department.

5 MS. HENNESSY: Good afternoon, everyone.
6 Ivan and I are very pleased to have been invited to
7 speak with you today. We feel that we in New York
8 have had the opportunity to experience some
9 emergencies that all of you are aware of but that we
10 have learned an awful lot from. I am a nurse by
11 background. I've been in health care administration
12 for quite a while in the government.

13 We received our preparedness money just like
14 the other states in the nation did. What we thought
15 was we needed to talk to the people most who were in
16 the throws of the terrorist attacks and those
17 hospitals and public health units that had to respond
18 to try and find out what we did right, what we did
19 wrong and where we could move from here.

20 As you all know or may not know we created
21 our Health Emergency Response Data System and we
22 affectionately call that HERDS. We will try and talk
23 to you today in a New York minute so that we don't tie
24 up any more of your time. Our HERDS system operates
25 within a larger calmer system. It's a secure,

1 standards-based integrated infrastructure for
2 enterprise-wide health information.

3 We have been operational since 1995, as you
4 can see, long before the events of 2001. As we said,
5 it's web-based and accessible via the Internet, so you
6 can be anywhere in the world and still access this as
7 long as you have that Internet connection. We do have
8 standards that require ID and password, and we are an
9 integrated architect with supporting a wide array of
10 health information exchange.

11 That is routine information, it's
12 preparedness and response, it's disease surveillance
13 and lab reporting, it's health alerting and it's
14 volunteer databases, as well as any HERDS preparedness
15 surveys that we've done so that we can do more intense
16 planning in New York State.

17 It's used by all the local health
18 departments, we have 57 in New York and five boroughs
19 in New York City, so that's our 62 counties, and we
20 have 240 plus hospitals, we have over 600 nursing
21 homes, we have many, many practitioners who are all
22 our partners.

23 When we have national events or whenever
24 there is an interest our federal partners also go to
25 our dashboards and they can see all of our numbers and

1 data that we collect through this system. The RNC is
2 a good example of that.

3 We were set up in New York City monitoring
4 the events of the Republican National Convention, and
5 our agencies, and DHHS and the city agencies, et
6 cetera, wanted to be a part of that, and that included
7 our federal partners, law enforcement, and city police
8 and fire.

9 This leverages existing infrastructure, and
10 it's secure and the availability is there. We
11 identify management and access controls, and we have a
12 core integration application, which means that it does
13 integrate all of the systems for us. The one thing to
14 remember about this system is that it was a ground up
15 movement.

16 This was developed after 9/11 when the
17 facilities who tried to respond to the disaster really
18 were inundated with many, many phone calls, inquiries
19 and families looking for their loved ones.

20 We thought if they ever had the enormous
21 amount of patients that we wanted them to receive and
22 never did that they would never have been able to get
23 their jobs done. They came to us, a governmental
24 agency, and said we can never let that happen again.
25 We have to be ready to take care of the patients, so

1 there needs to be a governmental agency with one
2 repository of the data that everyone was asking for.

3 Where are my EMS fellows? Where are my
4 fire? How many dead? How many identified? How many
5 have come in through the emergency department? How
6 many walking wounded? All of those questions were
7 being repeatedly put upon each and every hospital
8 five, or six, or seven, or eight times an hour to find
9 out where we were then, and they just couldn't handle
10 it.

11 So we did create this HERDS data repository.
12 It's coordinated. The Emergency Preparedness
13 Committee asked us to come forward by the Greater New
14 York Hospital Association, and we worked with them as
15 partners. We had regional planning and response with
16 New York, New Jersey and Connecticut, again,
17 understanding that there are no lines in the sand when
18 you're talking about epidemiology, and organisms and
19 blast factors, et cetera.

20 In fact, we have data from the Greater
21 Hospital Association that talks about over 100
22 facilities were used by persons who were trying to
23 flee New York City during the 9/11 event. It
24 establishes dialogue. We had a framework for
25 communicating and we tried that with our New York

1 Presbyterian system.

2 The model worked, and we adopted it for
3 further growth within the health department. The
4 composition of the group really was all of our health
5 care partners.

6 It was our local health departments, our
7 hospitals, nursing homes, physician organizations,
8 local, state and federal agencies, our policing
9 agencies, our military agencies, we had people
10 represented from NDMS, which was, again, another part
11 of the system at that point, but we knew that NDMS
12 also had a vested interest in our hospitals and when
13 they needed beds there was a system in place.

14 We wanted to know how you work your system
15 and how we can help incorporate those two systems in
16 New York State, so we developed this system to meet an
17 information exchange need and we extended it to public
18 health events.

19 So in general what we collect is facility
20 resources, we collect surge, we collect event related
21 data, number of patients coming in, number of blast
22 victims, number of vaccine units that you might have,
23 we put out our chem packs to all our facilities, we
24 might want to know how many Mark I kits that you have
25 available if you have a field disaster and they can

1 respond to that.

2 We also have the goal of being able to have
3 agreed upon data entry definitions, and we talked
4 about that a little bit more today in our previous
5 speakers. We have protection of the confidential
6 information, and we know that in certain emergencies
7 even HIPAA is waived a bit so that we can share this
8 information with our emergency partners and
9 responders.

10 We have had many different ways to use HERDS
11 in the past five years. We've had outbreaks of e.
12 coli. For preparedness, we can actually pull all of
13 our counties, our facilities, our nursing homes, and
14 we can ask them, what assets do you have? Now, I know
15 how many air beds that I have in my state if I have a
16 TB outbreak or a smallpox outbreak and I need to
17 isolate them.

18 Now, I know how many trauma beds I have and
19 what an ED in my state can surge to. I know the exact
20 number of bays that we have, and I know how many
21 portable ventilators that I might have on any given
22 day, how many are fixed, are many we could surge to if
23 we needed to.

24 When we start to monitor events like the
25 Republican National Convention we can ask any question

1 that we want of this data system when we put it out
2 there for the hospitals to respond to and/or the
3 nursing homes or county health departments. What they
4 tell us is anything that we need to know, which is
5 blood factors in New York City. There was a shortage
6 on or about the time of the RNC.

7 We wanted to make sure that we had enough
8 blood in the facilities to make sure if we did have a
9 sort of blaster trauma that we would have enough in
10 the city to respond to that. Additionally, if the RNC
11 was just affecting New York City we can really
12 activate HERDS to the rest of the hospitals in our
13 state and surrounding areas and ask them what
14 resources they might have available should we need to
15 ship them into the lower part of our state.

16 We have data exchanges with our health care
17 facilities, so the importantness of this is that it's
18 bidirectional. We have the ability to talk to the
19 hospitals back and forth during this data exchange.

20 They have the ability to say to us through
21 this system we're notifying our EOC that we need more
22 ventilators, we're also notifying so that when you sit
23 at the EOC and you follow incident management systems
24 that we all need to follow in emergencies that we make
25 sure that this is not a redundant request, but rather,

1 that the request is make sure that it's up at the
2 right peoples attention.

3 This is just the New York State Health
4 Commerce architecture. As you can see, we have health
5 providers, response agencies, firefighters, local
6 health departments, health facilities, clinical labs
7 all feed into our commerce system, and when we bring
8 them in we bring them in through the secure web
9 access.

10 HERDS is a part of this system, and when we
11 want to build HERDS up with some basic data to tell me
12 what are the amount of emergency departments I have
13 within this 100 mile radius so that I can activate
14 only hospitals with emergency departments to respond,
15 then I have that data in my spatial data warehouse
16 because we've collected it through not only our
17 critical assets, but we might have that through our
18 public health.

19 We have our population spaced, we have our
20 disease surveillane reporting, a communication
21 directory that supports it and we also have
22 collaborative forums where we can do this
23 bidirectional talking back and forth, and that is
24 significant.

25 We've deployed it to the hospitals, nursing

1 homes, local health adult and home care clinics and
2 other facilities, and I'll give you an example of
3 this. When CDC was telling us that we did not have
4 enough vaccine a few years ago we needed to be very
5 wise about how we distributed the vaccine. We were
6 asked by CDC to take a poll of how much we had in the
7 state.

8 Well, we're not connected with every
9 physician yet, we hope to be at some point, but we are
10 connected to all the health care facilities. What we
11 did was ask them how much available vaccine they had
12 by the dosage and by the type of vaccine.

13 So we were able to at the state level find
14 out how much we had and be able to either distribute
15 it, send out our guidelines to those people saying
16 this is what you need to do or see where we were weak
17 in some areas and needed to bolster it in other areas.
18 We can do the same thing for any other type of drug
19 should we have the emergent event in a part of the
20 state or nation.

21 We've done drills, in New York City we've
22 done dirty bomb drills, we've done a lot of bioterror
23 agents, we've done SARS, we've done a lot of work
24 where we might have to search the hospitals both
25 medically and through trauma, two different kinds of

1 surges.

2 The emergency department unfortunately is
3 always the hub of where everyone needs to go, and so
4 we're focusing now on helping our emergency
5 departments decompress in a time period that would be
6 meaningful so that when people do start to come in we
7 at least have the emergency department ready and able
8 to go.

9 We're currently doing some ongoing
10 surveillance. We've done bed availability for four
11 years now, a snapshot in time of our hospitals across
12 New York State, to tell us at this point in time, at
13 10:00 on a Wednesday morning, how many beds do you
14 have available, and how many people are waiting in
15 your emergency department?

16 Recently, because of all of the ED
17 overcrowding issues that we're seeing in the nation we
18 have expanded that to three times a week. We're
19 asking hospitals to report data to us at 8:00 on a
20 Monday night, 8:00 on a Friday night and 10:00 on a
21 Wednesday morning, the snapshot at those times, to
22 tell us some things that we need to know.

23 When is the ED most overcrowded? Is it
24 because of a surgery schedule in the middle of the
25 week or is it because you have a lot of walk ins? Is

1 it because we don't do as many surgeries on the
2 weekend of course as we do during the week, et cetera?

3 So we will be able to gather great information from
4 having this interconnectivity with the hospitals.

5 So how do we use it for emergency response?

6 Anyone here remember the northeast blackout of 2003?

7 I was on the 19th floor of a hotel in New York City,
8 and that's a lot of stairs when you have to go back up
9 and down quite a few times.

10 What it showed us facility-wise when we were
11 able to get to our command post in the city, and get
12 onto HERDS, and activate it and say, do you have
13 power, do you have generators on, how are you doing
14 for fuel, do you have water, is your facility safe, we
15 found, and Ivan will talk to you about some outcomes
16 of this, that not everyone had the forethought to put
17 their computer rooms on emergency back-up.

18 Maybe it was a lab before and they changed
19 it over to an office, so now the same type of back-up
20 is different. So that was one of the things. The
21 blood shortage in 2004, vaccine shortage, regional
22 flooding, where we have a part of our state that
23 happens to have had a total hospital evacuation, and
24 HERDS was activated during that time and we worked
25 with our emergency services partners, our police and

1 our health care workers during that time.

2 Additionally, we have baseline surveys that
3 give us those day to day numbers that we need to know
4 to do a comparison rate. HRSA also asked for baseline
5 information over the courses of the past four years.
6 This is just an example of a real time report we can
7 run on the airborne isolation infection room capacity.
8 As I said, we now know how much we have.

9 We can ask every hospital at any moment in
10 time how many do you have free or how many could you
11 have free, knowing that they may use these rooms for
12 other types of patients when they don't need it for
13 negative air pressure. This is another example of our
14 hospital admissions charted on a HERDS GIS map. This
15 is lab confirmed positive influenza. We collect this
16 data yearly during flu season to find out how many
17 deaths.

18 Again, a few years ago when CDC was
19 concerned about a grouping of perhaps younger deaths
20 we started collecting by age range. We can map that
21 on GIS to show in a moment where we have our most
22 cases. Our surge for air beds in ED again is a matter
23 of just asking the hospitals to give us current
24 numbers for how many patients are you seeing with this
25 type of symptom so that we can see if that is all

1 clustering in one particular area.

2 If we hear from our local health departments
3 that they're concerned, they've seen something new,
4 strange, five in a day, five in a two days, never seen
5 it before, they can trigger us to activate HERDS, and
6 we can activate it within a 200 mile radius and bring
7 it in if we find out that the cases are only within a
8 50 mile radius.

9 Then we can kind of center in as to where
10 the exposure might have been if we can start looking
11 at the epidemiology of the event. Again, I'm going to
12 go through some of these charts, and we can give you
13 this PowerPoint later, but basically we can look at
14 the e. coli outbreak for local health department
15 reporting when they were sending in information by
16 HERDS.

17 The nursing home vaccine survey. We had our
18 hands on the reports and where the most vaccine was at
19 any point in time, and we could go specifically to
20 each nursing home and deal directly with them. This
21 is a daily shot, actually, we did this this morning,
22 of our ED bed availability, and how many patients were
23 waiting and by what type.

24 So we're looking for psych beds, we're
25 looking for ICU beds, we're looking for monitored

1 beds, and then we're looking to find out how many
2 patients who need those beds are backed up in your
3 emergency department. So we feel that we have a good
4 finger on the pulse of our health care at any one
5 point in time, and during live demonstrations we
6 certainly can reach out to our health care partners
7 and ask them things.

8 The one thing I will mention is that we have
9 been invited to the table at the national level to
10 work on the HAvBED project. HAvBED 1 and 2 just
11 completed itself for Department of Health and Human
12 Services, and we're happy to say that HERDS played a
13 large part in the type of data that they now collect
14 for bed availability across the nation, and we hope
15 that is put into use.

16 The other committee is the Patient Locator
17 Committee which we desperately need at a national
18 level. Thank you. Ivan?

19 MR. GOTHAM: Thank you. My name is Ivan
20 Gotham, I'm responsible for the information
21 infrastructure for the state health department. I'm
22 also an Associate Professor at the School of Public
23 Health, Albany, New York, and also involved in a
24 number of national committees for public health
25 informatics.

1 Some of the things I want to concentrate on
2 now are not just the application but the dependency of
3 that application on communications infrastructure.
4 One of the lessons we learned from the northeast
5 blackout was that although we were well-prepared in
6 terms of our availability and continuity of operations
7 infrastructure, the remote end points were not.

8 Over half the facilities were not able to
9 connect to HERDS after it was activated, not
10 immediately anyway, not until towards the end of that
11 weekend which underscores the importance of the
12 hospitals or the health care providers' need for
13 alternate reliable diverse communications pathways in
14 an emergency.

15 During the regional flooding incident and
16 the western regional snowstorm, particularly the
17 western region snowstorm emergency, there were massive
18 power outages, but we were able to connect to our
19 hospitals, so I feel that we were sort of lucky in
20 that particular instance.

21 There were lessons learned from both 9/11
22 and the northeast blackout so that the hospitals have
23 improved their infrastructure. I'm going to go over
24 some of the, we do use the HERDS system to assess the
25 communications capacity of our hospitals and perhaps

1 we would work with you to gain additional insight into
2 what hospitals' actual needs are, but here are just
3 some based statistics on what the hospitals can do.

4 If you look at the radio communications, for
5 example, only half of them report they can establish
6 emergency radio communications with their local EOC.
7 Their radio communications capacities are anything but
8 standardized. We note that 60 percent of them have an
9 established relationship with RACES, but that leaves
10 40 percent who do not.

11 Satellite communications. Hospitals have
12 invested in that, but the bottom line for that
13 capability is vastly oversold, the capacity is, as the
14 main communications capabilities are. So the bottom
15 line is hospitals are somewhat prepared but not
16 completely prepared at all for communications during
17 an event.

18 So I wanted to sort of summarize our
19 perspective based on our lessons learned on what the
20 problem is. At the state, federal, national and
21 regional level there are sophisticated health
22 preparedness and response systems evolving, and at
23 least in our state they're evolving on a standards
24 based messaging exchange capacity.

25 They're designed to establish and exchange

1 critical data between response partners. The response
2 systems are used in emergencies, and their
3 effectiveness is dependent upon efficient and timely
4 accessibility by all response partners, state, local,
5 regional and emergency response level.

6 The access to data or information exchange
7 resources needed for clinical care for both victims
8 affected by the event and health consumers within the
9 affected region are also dependent upon continuity and
10 availability of communications infrastructure during
11 an event.

12 So, therefore, all critical health functions
13 are dependent on the very communications
14 infrastructure, voice, data and video, that would be
15 subject to outage or disruption due to the emergency
16 event itself. One could sort of roughly categorize
17 the outage, and I think we've seen all of these in New
18 York State, which could be due to logically the
19 physical disruption due to damage related to the
20 event.

21 However, there's a surge issue utilization
22 as a result of the event, and also, which happened in
23 9/11, reallocation of communications resources through
24 other sectors between national, regional, ICS or
25 command decisions. So what is needed? From our

1 perspective, one, the Office of National Coordinator
2 established a rather effective and well-promoted NHIN
3 initiative.

4 I think that there needs to be a national
5 health information communications infrastructure with
6 a national plan, standardization and a funding
7 process. I think it needs to support both urban and
8 rural areas. It needs to be diverse, redundant,
9 multimodal interoperable with interoperable
10 communications modalities including broadband,
11 wireless, high frequency radio and satellite.

12 It needs to connect state, regional, local
13 public health, health care facilities, OEM, tribal
14 nations, clinicians, and consumers as needed and
15 deemed appropriate. It needs to be accessed on
16 demand. It cannot wait for an instant command
17 decision to make a decision. It must be available on
18 demand in an event.

19 It needs to have dual use for both routine
20 clinical and public health practice as well as
21 emergency use during an event. It needs to support
22 core interoperable low level application support for
23 reliable, continuous, secure voice data and video
24 communications including telemedicine.

25 It needs to support the high level

1 application support for those communications services
2 which clinicians, public health practitioners and EMS
3 use on a routine basis as email, web services, manual
4 web browsing and telemedicine. It needs to support
5 interoperability with both EMS and public safety.

6 I include some references and background in
7 our presentation on what New York State has done with
8 its information infrastructure. Thank you.

9 MR. BUGEL: Thank you very much. I have one
10 question. Is this cross-boundary New Jersey,
11 Connecticut? How are they linked into this?

12 MS. HENNESSY: In several ways. I mean, we
13 have some cross-linkages with our epidemiology teams,
14 and we have cross-linkages with our preparedness
15 teams, but we also invited any hospitals in the
16 surrounding areas to join this voluntary and many of
17 them have because they want to have the same types of
18 resources available to them as we would like for us.

19 MR. BUGEL: So there is the implied mutual
20 aid?

21 MS. HENNESSY: Correct.

22 MR. BUGEL: Okay. Mr. Roskind?

23 MR. ROSKIND: Great presentation. Thank you
24 very much. Question for you about the slide
25 statistics on RACES and the percentage of

1 availability. What was the scope of that slide that
2 presented statistics?

3 MR. GOTHAM: I'm sorry. That was a survey
4 of all 230 hospitals in the state.

5 MR. ROSKIND: For the State of New York?

6 MR. GOTHAM: Correct.

7 MR. ROSKIND: Okay.

8 MR. GOTHAM: I think that includes the VA
9 hospitals as well.

10 MR. ROSKIND: Included federal hospitals?

11 MR. GOTHAM: Yes. VA hospitals in New York
12 State that are open anyway our on our HERDS system.

13 MR. ROSKIND: Right, VA open hospitals. Got
14 it. Thank you.

15 MS. KAPLOWITZ: Lisa Kaplowitz. One of the
16 challenges we've had in Virginia with systems like
17 this is getting the data entered. What kind of a
18 challenge has this been? I mean, how much is linked
19 to, you know, automatic systems already in place?
20 You're asking for a lot of information that often has
21 to be input by people who are often doing other
22 things.

23 MS. HENNESSY: There's a few things I can
24 say about that. It doesn't hurt to be the health
25 department and oversee the regulatory process for all

1 of our hospitals.

2 MR. BUGEL: Coalition of the willing?

3 MS. HENNESSY: Yes. But it also came from
4 them, and we keep saying to them this is what will
5 ultimately help. You know, I'm from the government,
6 I'm here to help. We do want to make it as easy as
7 possible, and so when we get a survey out we want to
8 get it done quickly so that they don't have to keep
9 going, and going and going.

10 As Ivan often says he wants to do it
11 automagically, which is that if they already have a
12 system for collecting the data on who comes into the
13 emergency department, by all means we'll work with
14 them to make it automated so that they can do that or
15 for census if we're collecting NDMS types of numbers.

16 In fact, we have had several hospitals on
17 our systems already who are doing this as part of a
18 regional health informatic structure.

19 Ivan?

20 MR. GOTHAM: We are working with RIOs to
21 actually implement to have the HAvBED reporting
22 standard. Now HAVE is evolving and many hospitals
23 cannot speak HAVE, but we are implementing the
24 capacity to receive and send those message types as
25 well as CAP, which is part of the EDXL standard. So

1 we are moving full on to incorporate the EDXL suite of
2 payload message standards into our system.

3 We're also fully HL-7 compliant
4 bidirectional as well.

5 MR. BUGEL: Mr. Corry?

6 MR. CORRY: I'm struggling just a little bit
7 with the difference between the discussions we're
8 having of applications versus what I would generally
9 call connectivity. I think if you're coming from a
10 health care background you're focused on policy,
11 applications, and so I've just got a couple of
12 questions because I want to understand the technology.

13 Is HERDS an application, a web-based
14 something or other that if I'm a hospital I have an
15 account and a password and that's how I'm
16 participating in HERDS?

17 MR. GOTHAM: Correct, correct. Yes.

18 MR. CORRY: Okay. Secondly, are there any
19 dedicated circuits that are exclusively owned for and
20 operated for connectivity to HERDS?

21 That is, whoever owns HERDS, are you putting
22 in a private circuit from the health department to
23 that hospital and that circuit can only be used to
24 access HERDS or are we generally talking about anybody
25 who wants to participate in HERDS has to figure out

1 how to come up with their own connectivity to the
2 internet?

3 MR. GOTHAM: It's all Internet based, IP
4 based. We rely on the hospitals to build redundancy
5 in terms of multi-homed Internet access and other
6 mechanisms to get to the state health department.

7 However, going back to the telemedicine
8 piece, during 9/11 we were very successful as you know
9 that the CO was taken out as the result of the
10 collapse of Building 7 I think it was, and what
11 occurred was that south of Poughkeepsie all frame
12 relay communications, which was at that time the
13 backbone of data communications for many offices in
14 the state, was gone.

15 What we did discover is that we could use
16 plain old ISDN and our videoconference network, which
17 was not damaged, it was just fortuitous, just it's the
18 example of the need for diversity of communications,
19 pathways and architecture, we were able to leverage
20 that capacity.

21 So what we've done with our county health
22 departments is we've established a videoconferencing
23 network through dedicated lines and set that up to be
24 different, as many diverse CO pathways as we can
25 establish, and we drill them on using that as a

1 dedicated access mechanism for the state health
2 department. We have not done that with hospitals, but
3 we have done that with local health departments.

4 So basically, build a path to the Internet,
5 and you can get to us or build a path to one of our
6 videoconferencing infrastructures and you can get to
7 us with data as well. Again, our hope from this
8 committee is that there is a national plan to provide
9 diverse alternate pathways for access for Internet
10 communications with state-based emergency response
11 applications.

12 That's what our hope is that the mission of
13 this committee is, to build that communications
14 infrastructure to support our applications.

15 MR. CORRY: And then when you say, somebody
16 used the term activation of HERDS, are we simply
17 sending out pager messages and emails to distributed
18 lists and groups saying hey, this is the health
19 department, we're up and live on HERDS now and there's
20 somebody, if you send an email, I mean, we're right
21 there or is there something -- I'm trying to
22 understand the activation, the actual mechanics.

23 Is that some special network or, again, just
24 broadcast with whatever technology is available?

25 MR. GOTHAM: Correct.

1 MR. CORRY: Come to HERDS via however you
2 connect to the Internet?

3 MR. GOTHAM: Correct.

4 MR. CORRY: Okay.

5 MR. GOTHAM: Correct. HERDS is a dynamic
6 multitasking system where you can have many, many
7 different events going on simultaneously. You can
8 have an event in Buffalo, you can have one in
9 Syracuse, you can have one in New York City all happen
10 simultaneously. Different events, different resource
11 requirements.

12 The system uses a central communications
13 directory to alert the hospitals, and that includes
14 key rolls of the hospital, CEO, laboratory and head of
15 ED, it may alert certain coordinator rolls within the
16 hospital, it alerts local health departments where the
17 hospitals have been activated.

18 Activated really means associated with an
19 event within the system, and so they'll receive a
20 voice phone call down to their pager, or to their cell
21 phone, or whatever communications device they
22 specified in the communications directory depending
23 upon the hour at which the alert occurs.

24 So it's basically a call down accompanied by
25 email and/or fax depending upon the event. So it's

1 not an infrastructure, it's an application level
2 notification or activation.

3 MR. CORRY: Mr. Chairman, if I could ask one
4 more thing, a technical question?

5 MR. BUGEL: So be it.

6 MR. CORRY: Thank you. I realize that GETS
7 and Wireless Priority Service in today's generation of
8 those services have no impact on data connectivity in
9 providing any sort of -- well, I suppose if you're
10 dialing in over a phone line GETS would provide you
11 with some connectivity, but I'm just kind of curious
12 how widely utilized within your state by this
13 community we're discussing are GETS, WPS and TSP
14 programs currently used?

15 MR. GOTHAM: Well, our deliverables for our
16 federal grants require that we establish TSP service
17 as well as GETS and WPS, acquire GETS and WPS cards.
18 That's what we're in the process of doing. Again,
19 obviously TSP, the health takes lower priority to
20 other restoration service to other sectors.

21 However, again, I think it gets back to
22 rather than restore from zero to have measures to --
23 if everybody gets GETS cards or WPS then it really
24 makes no sense in terms of priority access to
25 communications, so my point here I think is that there

1 needs to be diversity. There needs to be diversity
2 and redundant capacity within each communications
3 type, and there needs to be a plan for accessing those
4 during an event.

5 If my land line is down waiting two weeks
6 for it to be restored it's not going to help us from
7 our need in terms of management of hospital, or health
8 care, or county resource needs because we need to have
9 it now.

10 MR. BUGEL: I have one question going back
11 to the issue of transport. Are you participating in
12 what I believe is a New York State project, a
13 broadband network that's being built for New York?
14 Are you participating in that?

15 MR. GOTHAM: The statewide wireless network.

16 MR. BUGEL: Yes.

17 MR. GOTHAM: Yes. Well, we're participating
18 from an input type of -- but, again, that's a ways off
19 in terms of the location. Yes, we've participated as
20 providing information as far as users or requirements.

21 MR. BUGEL: Other questions from the
22 committee? Mr. Linkous?

23 MR. LINKOUS: That really affects the
24 interpretation. Thank you very much for that. Just a
25 couple of things. One, as I understand it this is

1 financed primarily out of a federal grant. Is that
2 correct?

3 MR. GOTHAM: Federal grants, yes.

4 MR. LINKOUS: Have there been any incentives
5 or needed incentives for the local institutions to get
6 them involved in it? I understand because you're the
7 health department it helps, but is there any need for
8 that as you move forward?

9 MS. HENNESSY: We fund them with the grant
10 monies as well, so the Department of Health was the
11 recipient of the hospital preparedness grant if you
12 will and we expanded that to nursing homes, et cetera.
13 We do give the hospitals funding to automagically try
14 and create these interconnectivity, but we also give
15 them grant funding and deliverables to meet the HAVBED
16 deliverables, and to meet our needs for responding to
17 HERDS drills and to participate in a drill where we
18 might use it as a tabletop exercise.

19 MR. LINKOUS: I think it would be helpful if
20 the committee got some idea of the cost, if you have
21 cost data that you could share with the committee at
22 some point. My final question is the
23 interconnectivity between what you're doing and the
24 emergency fire rescue, the other systems within the
25 state itself.

1 MS. HENNESSEY: You know, in two days I'm
2 going down to meet with FDNY in New York to talk about
3 their concerns about ED overcrowding in the New York
4 City hospitals. One of the things that they don't
5 have the ability to get unless they pick up the phone
6 and call each day is to get the bed information and
7 how backed-up the EDs are.

8 They can do it by their dispatch, but they
9 don't have a regular data system to collect that
10 information. We have it, we'd be glad to share it
11 with them and we use it with them to make sure that
12 we're not bringing patients to an already overcrowded
13 emergency department.

14 CMS recently came out with a new EMTALA type
15 of rule that says that if you really keep your
16 emergency vehicles at the facility longer than 30
17 minutes I believe it is, you know, if you can't
18 exchange that patient from the EMS to the hospital
19 within 30 minutes then that's an EMTALA violation. So
20 it's within all of our purviews to really try and make
21 that expedited.

22 So we do work with FDNY, and you know they
23 are the 911 EMS system there. However, one of the
24 things that we need to do is although we collect the
25 data and we share it we need to make sure that there's

1 constant bidirectional communications. As Ivan said,
2 if we only have one system to do that then we're going
3 to be lacking if we don't build some redundancy in
4 there. Thank you, again, for inviting us.

5 MR. BUGEL: Thank you very much. We really
6 appreciate it. We may call on you again. Well, I
7 want to thank you all very much for coming to
8 Washington for many of you and for those of you here
9 for attending the meeting today. This is our first
10 meeting. We hope to have our second meeting.

11 There is a tentative schedule that is in
12 your package. We don't have a publicly announced
13 date, but we have a tentative date for our next
14 meeting. The other thing that I would like to mention
15 to you is that obviously as we've said several times
16 we have to move rather rapidly.

17 I would encourage you to reach out to your
18 working group chairs, introduce yourself, try to
19 develop some schedules upon which to meet for
20 conference calls or other sessions. We are in the
21 information gathering phase at this point in time. I
22 would also ask that the information that you funnel up
23 to your chairs and vice chairs that you actually
24 provide a synopsis so that they understand the
25 gravitas and why it's germane.

1 We all have a number of things going on, but
2 at the same time anything you can do to try to help us
3 understand and comprehend a 100 page report would be
4 very significant. I would also encourage you to take
5 the time to actually sit down and calmly read the
6 statute. Look at the actual language of the statute,
7 and keep that in mind when you conduct your activities
8 and when you're looking at things.

9 We have an opportunity to address a lot, we
10 do not have time to boil the ocean, so we need to keep
11 focused on what we're doing. Let me also encourage
12 you, as we said before, we are not going to be able to
13 create a bunch of work. What we're going to be able
14 to do is borrow a lot of work.

15 To quote an undergrad professor of mine,
16 "When you take someone else's work and tell a few
17 people, that's plagiarism, when you take somebody
18 else's work and tell a lot of people, that's
19 research." So we are going to research, a lot of
20 research. So I would encourage us to remain focused.
21 I would like to meet with the working group chairs
22 after the meeting, and I would just like to open the
23 floor now for any comments by the committee members.

24 Mr. O'Brien?

25 MR. O'BRIEN: I haven't said anything else.

1 I think all of us, most of us on this committee or a
2 lot of us anyway are probably very familiar with
3 different aspects of the services we're able to
4 provide over communications networks. I think that
5 certainly from my perspective listening to the people
6 that have appeared before the committee today to give
7 us some grounding, some sort of reality to the kinds
8 of problems they're trying to deal with is, for me
9 anyway, very, very helpful, so thank you all.

10 MR. BUGEL: And, again, I think everyone
11 will have ideas and thoughts about who to bring before
12 the committee to present evidence. Work with your
13 working group chairs to vet those opportunities. It
14 will require some planning. The staff will arrange
15 for those visits to be made, right? Okay. We'll
16 communicate up through staff.

17 Mr. Roskind?

18 MR. ROSKIND: Just have a procedural
19 question about the working groups and its requirements
20 under FACA. What are our requirements for reporting,
21 the working group?

22 MR. BUGEL: I will defer that question to
23 the federal officer.

24 MS. FOWLKES: Basically, in terms of the
25 informal working group, and this would be whether the

1 Federal Advisory Committee Act, which I think is what
2 you're referencing, applied or not. Essentially, the
3 formal working group's responsibilities are to develop
4 the recommendations or whatever is going to go into a
5 report, do the research.

6 That would all have to come through the full
7 committee. So that's basically it in a nutshell. The
8 informal working groups can certainly do things, like
9 if there are people who are not on the committee and
10 you want to get them on a conference call to talk
11 about issues or get their viewpoints on something you
12 can certainly do that.

13 One of the things about this advisory
14 committee is that its authorization is through the
15 9/11 Commission Act, and so the Federal Advisory
16 Committee Act does not apply to this particular
17 committee. So a lot of the requirements of that Act
18 don't apply to the committee as a whole, although
19 there are certain things that we're going to try to
20 do, like having public meetings like this one and
21 trying to have as much transparency as we possibly
22 can.

23 In terms of what the informal working groups
24 can do, certainly you guys can't act like the
25 committee, and so you can't bind the committee.

1 You're basically research, developing initial
2 recommendations which would ultimately have to be
3 voted by the full committee before the report can go
4 to Congress.

5 Certainly as you guys are going along if you
6 have questions about what the informal working groups
7 can or cannot do or what the committee can or cannot
8 do, as Jim mentioned, Jean Ann Collins from the FCC
9 will be giving a lot of help and support to the
10 committee, and her staff will be giving a lot of help
11 and support to the committee.

12 So I would certainly encourage all of you to
13 raise those type of questions with Jean Ann, or with
14 Eric Werner, or with me as you go forward.

15 MR. BUGEL: We are the deliberative body.
16 We have an obligation to deliberate, we have an
17 obligation to provide the report under a consensus,
18 simple majority, that's very straightforward, and we
19 are congressionally chartered, as Lisa said. So we
20 have a broad range, and if we do have any questions,
21 you know, just raise your hand, we'll get them
22 answered quickly.

23 As I said earlier, we are right now working
24 on a proposed outline of how we envision the working
25 groups moving forward. I'll be working with the

1 working group chairs and vice chairs on the
2 development of that, share that with you as soon as we
3 can. Again, I don't want to harp on it, but we have a
4 short period of time.

5 We have the holidays lumped in there,
6 everybody has day jobs with tremendous obligations and
7 responsibilities, so if we can get as much done as we
8 possibly can and move forward. Furthermore, if a
9 working group feels that they're moving faster than
10 the phases that have been laid out in the program,
11 that's open for negotiations, too. Absolutely we can
12 move forward faster.

13 So, again, I want to thank everybody and get
14 out a little early. Mr. Corry?

15 MR. CORRY: This is the first time I've ever
16 participated in something like this, so I'm eager to
17 make a good, positive contribution. I'm struggling a
18 little bit with the mission and primarily because of
19 definitions. The example I would use, and we kind of
20 talked about this on the phone a week or so ago, what
21 I'm struggling with and what I want to put on the
22 table while the whole group is here is that the word
23 network means different things to different people.

24 For example, to the folks from New York
25 State HERDS is a network. To me, coming from a

1 cellular and a satellite communications company
2 background, HERDS is not a network, it's an
3 application. What I'm struggling with is is our
4 mission to evaluate, and assess and make
5 recommendations about the technical connectivity type
6 network or are we also looking at not only the
7 technology but the applications that people can put on
8 a company's technical network to bring them together?

9 I'm just a little confused, and I want to
10 make sure that I don't go off half cocked.

11 MR. BUGEL: Let me refer you back to Section
12 2201(c) of the Act, our guiding principles here, I
13 think the third sentence. The Joint Advisory
14 Committee shall be composed of individuals with
15 expertise in communications technologies, emergency
16 medical and public health care.

17 Part 2, subsection (c). Assess options to
18 improve integration of communication systems used by
19 emergency medical and public health facilities with
20 existing and future emergency communications networks.
21 The statute pays deference to the assignees. We are
22 the experts. It is in essence we understand the
23 network to be that element or elements upon which the
24 end user's requirements are fulfilled.

25 That could be an application, that could be

1 the core network, that could be the RAM. That's how I
2 interpret that. Now, in consultation with your
3 working group and your working group chair if you
4 narrow or broaden that, you know, that's your
5 discretion. I will tell you from experience
6 legislative language is not always precise.

7 We do have room for interpretation. So I
8 think what we need to do is interpret it in a fashion
9 that makes sense for us relative to who is in this
10 room, relative to what everyone understands is the
11 challenge that has been pointed out for us by others
12 and many in this room have pointed out, so I hope
13 that.

14 MR. CORRY: Yes, that was very helpful.

15 MR. BUGEL: Anything else?

16 (No response.)

17 MR. BUGEL: Well, with that, we will
18 adjourn. Again, thank you very much.

19 (Whereupon, at 1:45 p.m., the meeting in the
20 above-entitled matter was concluded.)

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REPORTER'S CERTIFICATE

CASE TITLE: Joint Advisory Committee Meeting
HEARING DATE: October 29, 2007
LOCATION: Washington, D.C.

I hereby certify that the proceedings and evidence are contained fully and accurately on the tapes and notes reported by me at the hearing in the above case before the Federal Communications Commission.

Date: October 29, 2007

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