



Meeting Minutes

Nevada Public Safety Communications Committee

Attendance	DATE	Wednesday, January 7, 2015	
	TIME	8:30 A.M. to 3:30 PM	
	LOCATION	State Capitol Building Guinn Room 101 North Carson Street Carson City, Nevada 89701	
		Grant Sawyer Building Conference Room, Suite 5100 555 East Washington Ave. Las Vegas, NV 89101	
	METHOD	Videoconference and Teleconference	
	RECORDER	Janell Woodward	
Committee Members	Present	Ex-Officio Members, Staff and Others	Present
James Wright	X	Christopher Smith	X
Michael Barnbeck	X	George Molnar	X
Dave Gustafson	X	Thomas Lawless	X
Rudy Malfabon	X		
Mitchell Sperling		Samantha Ladich (AG Rep)	X
Chris Ipsen	X	Janell Woodward (NDEM Staff)	X
Scott Taylor	X	Rick Martin (NDEM Staff)	
Matthew Morris	X	Kelli Anderson (NDEM Staff)	X
Dave Hunkup	X	Selby Marks (NDEM Staff)	X
Louis Amell	X	Karen Hall (NDEM Staff)	X
Michael Brown			
Sandra Barfield	X		
Kevin Judice	X		
Bill Welch			
Gary Hames	X		

1. CALL TO ORDER AND ROLL CALL

Co-Chair, Director Jim Wright called the meeting to order welcoming everyone for attending both in Carson City, Las Vegas and over the telephone conference line. Janell Woodward called roll. A quorum was established.

2. PUBLIC COMMENT

Co-Chair, Director Jim Wright opened the meeting for public comment. There were none.

3. WELCOMING REMARKS

Director Jim Wright thanked everyone once again for attending this meeting. Chief Chris Smith echoed Director Wright's welcoming comments and stated it has been a pleasure working with FirstNet officials and staff.

Claudia Wayne from FirstNet additionally offered welcoming remarks. Claudia introduced FirstNet staff including Dave Buchanan, Brian Hobson, and Jeremy Zollo. Claudia thanked both co-chairs, Chief Smith, George Molnar and Janell Woodward for the preparation for this initial consultation.

Claudia asked the committee to go around the table and introduce themselves for the benefit of the FirstNet staff and bring up any questions they might like answered in this initial State Consultation between FirstNet and Nevada. Introductions were made of the NPSCC members and staff as well as FirstNet staff. Questions from committee members are as follows:

Dave Gustafson: His group manages a significant portion of the microwave system across the state. How would FirstNet play against those assets, i.e. do they need to begin to prepare those assets for inventory and when do they need to prepare this?

Rudy Malfabon: Explain the FirstNet business model and how they would add more people into the FirstNet group. How will shift to new technology be handled by FirstNet?

Michael Barnbeck: How can we better improve our intelligence gathering and sharing among multijurisdictional agencies especially from a Homeland component?

Jim Wright: How is Nevada doing with this broadband process from a nationwide perspective?

Chris Smith: As we move forward with the FirstNet public safety broadband network, there is concern for making sure that all of our public safety users actually have access to it and that it is throughout the entire state, both rural and metropolitan areas. How can we ensure that everyone has equal access to the network and what will this look like?

Matt Morris: Again, how will FirstNet make sure FirstNet access is equal among the metropolitan and rural areas?

Chris Ipsen: Security, available of services and integration with continuous monitoring and security monitoring – what is the national plan to integrate with the state plan?

Claudia thanked everyone for their great questions and stated that all of these questions should be addressed throughout the meeting.

FirstNet indicated that Nevada is the 10th consultation out of 56 total consultations that will be accomplished. Included in the objectives is the critical importance of FirstNet's relationship with each state and territory. FirstNet desires a dialog back and forth of sharing information between each state and territory and FirstNet.

The process will include hearing from each state and territory what is unique about their states. Conversation will then move to user and coverage discussions followed by next steps in the consultation process.

Please note, questions throughout this full-day meeting are listed at the end of the meeting minutes. Refer to this location for questions and answers provided to those questions.

4. FIRSTNET UPDATE AND CONSULTATION PROCESS

Claudia Wayne gave a high-level overview of the background of FirstNet. One of the recommendations of the 9/11 Commission Report recommended was that Congress should have legislation that provides for radio spectrum that provides for public safety access. This spectrum is very valuable. The Legislature created the First Responder Network Authority (FirstNet) and gave them license over 20 MHz of 700 MHz spectrum which is the Cadillac spectrum.

FirstNet's near-term vision is that in deploying the network, data will become mission-critical support in terms of resiliency, redundancy, hardening, ruggedized devices for that spectrum and that each state will be able to depend on this. Land Mobile Radio (LMR) will still be used for voice. This network will be fully dedicated to public safety with regard to development of the system. The focus is really how to deploy as quickly as possible, high quality that meets public safety needs and keeps costs low. FirstNet is currently looking at ways to leverage industry in order to accomplish this.

Claudia also provided the FirstNet organization chart which is available in the presentation that was made available to meeting attendees as well as posted with the open meeting documents. TJ Kennedy is the acting Director of FirstNet and all of the staff attending today's consultation meeting fall under TJ Kennedy who is also the Chief User Advocacy Officer. This information is also available on the www.FirstNet.gov website.

Jeremy Zollo, the State and Local Outreach Branch Chief, continued the discussion. He reiterated that FirstNet's primary focus is mission critical data and that voice will come later. FirstNet's goal is to become the preferred provider for public safety communications needs for use of 4G LTE devices.

FirstNet must first engage with the states and territories to find out where they need coverage and what capabilities they already have in place. Next, FirstNet will engage the vendors to see how they might be able to help them accomplish the goal of providing this coverage across the state. Jeremy stated FirstNet does not have all the answers at this point but will be as open and honest as possible. FirstNet is looking for multiple partners to help build out this system dedicated to public safety.

The presentation provided an overview of FirstNet and their current plan of building out the public safety broadband network. Key points of this presentation are as follows. Please see full presentation for further details as posted at http://dem.nv.gov/homeland_security/2015_Meetings_NPSCC/. Again, questions and answers can be found at the end of the meeting minutes.

FirstNet's Focus

- Consultation Process
- Acquisition / Request for Proposal Process

Understanding Boundaries

- Legislation
- Funding
- Market Research
- Acquisition

FirstNet Mandates under the Act

- Legislation
 - Defining Responsibilities and Duties
- Funding
 - Planning \$135 million
 - Implementation \$7 billion
 - Growth/sustainment Ongoing

700 MHz Landscape

- FirstNet is the license holder for Public Safety's Broadband allocation – Band Class (BC) 14
- Commercial Carriers also operate in several bands outside of 700 MHz

Revenue, Architecture & Priority

- \$7B Initial Funding from Auction Proceeds
- Network User Fee (Service Plan)
- Lease Fee for Excess Network Capacity
- Core Network Access Fee
- Lease Fee for network Infrastructure

Conceptual Design Approach

- FirstNet RAN (Band 14)
- Existing RAN (Band ??)
- Satellite Overlay

Market Research

- Identify current market capabilities and best practices

Public Notice and Comment

- Acquisition
 - Responses posted on www.regulations.gov
 - Notice and Comment Process
 - Request for Information (RFI)/Statement of Objectives (SOO)
 - Summary of Key Information Requested in the RFI
 - RFI Responses

Consultation

- Mandatory Elements for State Planning
 - Construction of a Core and RAN build out
 - Placement of towers
 - Coverage areas of the network
 - Adequacy of hardening, security, reliability, and resiliency requirements
 - Assignment of priority to local users
 - Assignment of priority and selection of secondary users
 - Training needs of local users
- Updated Consultation Approach

The State Plan

- State Plan Requirements
 - Completion of the RFP process
 - Document proposed build-out in the State

- Funding level for the State of Nevada

Network Components and Choices

- Core – FirstNet
- RAN – FirstNet (opt in) or State (opt out)
- Devices/Service – Agency choice

5. STATE UPDATE

Chief Chris Smith provided an overview of the State of Nevada. Nevada has three major metropolitan areas including the largest in Southern Nevada in the Las Vegas and surrounding areas, as well as Washoe County in Northern Nevada and Northeastern Nevada in the Elko area. It is extremely important that this public safety broadband work seamlessly in the highly populated Las Vegas area especially with the volume of visitors to the Las Vegas area. This overview also included the statewide radio systems including the Nevada Statewide Radio System (NSRS), Washoe County Regional Communications System (WCRCS), Southern Nevada Area Communications Council (SNACC), and Las Vegas Metropolitan Police System (LVMPD) as well as interoperability in Nevada.

SLIGP outreach to date includes 29 outreach meetings around the state. The audiences include but are not limited to NPSCC, law enforcement, fire department, associations in the state with the Sheriffs and Chiefs Association and the Fire Chiefs Association with a very high-level presentation of who FirstNet is and what their goal is. We have also talked to communications people, public safety dispatchers, and EMS folks. The goal is to reach out several times to all stakeholders in Nevada. At this point we have reached 12 of 17 counties reaching out to their LEPCs for each county. Another goal is to have discipline specific meetings.

Three presentations were also made as follows regarding specific events demonstrating the need for use of interoperability.

Reno Air Races Crash: Chief Tim Spencer from the Reno Fire Department and emergency manager for the City of Reno gave an overview of the Reno Air Races Crash event in 2011. Reno hosts the only air racing circuit in the world and they just celebrated their 50th anniversary. The incident involved a highly-modified P51 Mustang and the pilot experienced mechanical failure and crashed into the box seating area. Initially there were 12 dead with a total of 73 injured. Mass casualty plan was activated and triaged and treated 54 patients on the scene in 62 minutes from initial impact to time of arrival at the hospital. Brian Taylor, manager for REMSA added to this presentation. One lesson from this incident was that some systems needed to be changed and this was accomplished. This depended largely on data transmission transmitting patient logs over a cellular network which is critical in tracking patients and treatments. It was minutes before cell phones went down in this event. Since this event, Reno Fire Department has gone to 800 MHz radios which has allowed for easier interoperability. Please see questions and answers below.

Burning Man: The presenter for Burning Man had to leave to return to his jurisdiction and therefore Chief Chris Smith gave the overview for the Burning Man event that occurs annually. Approximately 65,000 people converge on a patch of desert north of Reno where there is no infrastructure. Infrastructure is developed and a community is created. There is a lot of interagency coordination.

REMSA saw 1500 patients in a 10-day period. This is more than the Reno-Sparks area emergency rooms combined for this area. Shawn Taylor presented some of the challenges

regarding communications. The Washoe County Sheriff's Office provides safety patrols as well as handling traffic. This even occurs on the fringe of Washoe County's communication system as well as the State's communication system. The biggest issue regarding communications is coverage.

New Year's Eve in Las Vegas: Director Michael Barnbeck provided the overview of New Year's Eve in the Las Vegas area. Of note, in the last 18 months, officer shooting deaths in Las Vegas have resulted in Las Vegas Metropolitan Police Department going to body cameras with 500 cameras at this time. They are looking at outfitting all of their officers with approximately 1200 body cameras total. No other agencies or jurisdictions are headed in this direction at this time. Las Vegas Metro is part of the first study in how the cameras are being utilized.

With regard to New Year's Eve in Las Vegas, LVMPD covers 8000 square miles of Clark County with 23 rural communities and Las Vegas metro is approximately 595 square miles. Population is 1.9 million with 42 million visitors to the area. For this past New Year's Eve, they were at a heightened threat level with specific threats to the officers in the Las Vegas area. They have 3400 officers with a civilian support staff of 1,450. For New Year's Eve, there were 340,000 known tourists to the area on 12/31/15. This number is based on hotel occupancy and does not include those coming to the area from California who are just there with friends and family. The weather was supposed to be poor but there were still 340,000 visitors. A unified command was set up downtown. Well over 1,100 officers were on duty for that area. They have operational support including SWAT with over 600 officers for that operation.

Of note, Las Vegas has a large number of events. Between December 25 and January 7, Las Vegas had 101 scheduled events that Las Vegas Metro is responsible for protecting. Cameras were utilized for New Year's Eve but they were only available for viewing in the command center. These pictures are not yet able to be streamed into the field.

Director Barnbeck provided the many experiences of this past New Year's Eve in Las Vegas. Communications-related issues include data sharing as well as keeping track of officers at any given time. Video-conferencing can only be done at the command post and then information must be disseminated to the field. Please see the end of meeting minutes for questions and answers.

6. BREAK FOR LUNCH

The meeting was paused in order to break for lunch.

7. PUBLIC COMMENT

Karen Wong, state point of contact for California, thanked partners with the State of Nevada. She stated California has been working closely with George and they are very happy with the partnership that has been formed.

There was no further public comment.

8. USER DISCUSSION

Brian Hobson provided a discussion regarding users for the FirstNet system including who the public safety users are, and the collection of data needed to help determine user and coverage needs for each state and territory. Considerable discussion ensued regarding

data to be collected and how that data might be utilized at a local level/state level. FirstNet added that the type of information to be collected is to help build a baseline and is not expected to be perfect information.

Key points of this presentation are as follows. Please see full presentation for further details as posted at http://dem.nv.gov/homeland_security/2015_Meetings_NPSCC/. Questions and answers can be found at the end of the meeting minutes.

Users and Coverage Goals

- First Responder Users / Operations
 - Identify potential user base and their operational areas
 - Estimate current usage of mobile data today
- Coverage
 - Review FirstNet initial coverage objectives
 - Discuss State inputs and approach to objectives
 - Discuss coverage modeling and desired outputs

Key Inputs to FirstNet Design

- Where?
- How Much?

Guiding Principles for Data Requests

- Critical Data
- When Needed
- Pre-populate
- Specify Deliverables
- Be Flexible
- Get Feedback
- Advance Notice
- Local Knowledge

Users / Operations Overview

- Who does Nevada consider to be eligible users?
- What kind of assessment has been done on the potential user base?

Users / Operations Collection

- CASM NextGen
- MDST
- State Collection
- OEC Coverage Workshop Data

Current Providers / Procurement

- Capture current service providers (commercial and private)
- Identify major procurement vehicles / options
- Identify different service plan types and costs
- Capture any specialized services
- Identify current barriers

9. COVERAGE DISCUSSION

Brian Hobson led a discussion regarding coverage. The maps that were shown are preliminary coverage maps and do not represent what will actually be covered by FirstNet.

These maps provide a starting point to each state and territory in determining where coverage is needed. Key points of this presentation are as follows. Please see full presentation for further details as posted at http://dem.nv.gov/homeland_security/2015_Meetings_NPSCC/. Questions and answers can be found at the end of the meeting minutes.

Coverage Objectives vs. Coverage Maps

- What is a Coverage Objective?
 - Targeted areas within a state/territory identifying where FirstNet coverage is projected to be needed
- What is a Coverage Map?
 - A predicted coverage footprint showing where devices can reliably communicate with each other above a minimum data rate

FirstNet's Coverage Objective Goals

- Set a FirstNet Nationwide Coverage Objective Baseline
- Facilitate coverage discussion for a phased build out
- Generate coverage maps based on culmination of acquisition process

Starting Coverage Objectives Data

- Public Safety User Population
- Public Safety High Risk / Areas of Interest
- US Population
- Developed Areas / Buildings
- Roadways
- Tribal Land
- Rural Metrics
- Federal Land

Nationwide Approach

- Employee Count of L.E., Fire, EMS Agencies
- Public Safety High Risk / Areas of Interest
- US Population
- Developed areas / Buildings
- Roadways / Average Daily Traffic

Converting Data into Coverage Objectives

- A lot of data in different formats
- To evaluate these broad datasets, applied a 1 x 1 mile grid for uniformity
- Evaluated all data by grid to
 - Identify areas that had data of interest to PS
 - Show concentration areas

Results for Nevada

How Should FirstNet Phase a Build Out?

- What would a phased FirstNet build out look like in Nevada?
- What decision factors would you consider?

Adjusting to Other Deployment Considerations

- Proposed build out will be refined after RFP Award, ongoing discussion and additional build out considerations and tradeoffs

Coverage Modeling Overview

- Coverage Objectives will be an input to modeling tools
- FirstNet has selected a coverage modeling tool
 - Used worldwide for LTE modeling
 - Granular dataset (terrain and land use)
 - Multiple propagation models
- FirstNet intends to discuss coverage parameters and assumptions for our predictions

Coverage Modeling Viewing

- By Device Type
- By Data Rate
- Provide results in an interactive map to
 - Zoom to areas of interest
 - View by device(s)
 - View by data rate(s)
- From Draft RFI/SOO – throughput >256 kbps > 95% of time
- How would you like to see proposed coverage? By device type and/or data rate?

WRAPUP AND NEXT STEPS

Claudia Wayne asked for any additional questions that were not covered in the meeting today. Claudia thanked everyone for taking the time to meet with FirstNet stating they have learned a tremendous amount about the needs of Nevada. With regard to state consultations, to this point, there has not yet been another state with a metropolitan area as large as Las Vegas. Claudia invited everyone to please contact FirstNet staff with any questions or comments. Contact information for FirstNet staff is listed below.

Key points of this presentation are as follows. Please see full presentation for further details as posted at http://dem.nv.gov/homeland_security/2015_Meetings_NPSCC/. Questions and answers can be found at the end of the meeting minutes.

User and Coverage Wrap-up

Summary

- Identifying the potential user base and their current use of mobile data is important
- Identifying coverage needs and a potential phased build out is also important
- Coverage will be an ongoing discussion throughout consultation and into network deployment

Call to Action...Next Steps

- Continued Outreach and Education
- Potential Users and Operations
 - Estimate current potential user base
 - Identify operations areas
 - Estimate current usage of mobile data
- Coverage Objectives
 - Identify coverage objectives
 - Provide a phased build out approach

Meeting Evaluation

- How was the meeting?

- What do you like?
- What can we improve?

FirstNet Contacts

Firstnet Consultation email box Firstnet.Consultation@firstnet.gov
Dave Buchanan David.Buchanan@firstnet.gov
Claudia Wayne Claudia.Wayne@firstnet.gov
Rich Reed Richard.Reed@firstnet.gov
Brian Hobson Brian.Hobson@firstnet.gov
Doug Harder Douglas.Harder@firstnet.gov
Amanda Hilliard Amanda.Hilliard@firstnet.gov
Jeremy Zollo Jeremy.Zollo@firstnet.gov
Carl Rebstock Carl.Rebstock@Firstnet.gov
Chris Algieri Christopher.Algieri@firstnet.gov

Chief Chris Smith stated Nevada will be ramping up outreach to continue the conversation. He asked everyone to please let either George Molnar or himself know if anyone has any groups they would like to hear the FirstNet outreach presentation.

10. PUBLIC COMMENT

Director Wright opened the meeting for public comment. There were none.

11. ADJOURN

Co-Chair, Director Jim Wright called for a motion to adjourn the meeting. Dave Gustafson made the motion for adjournment and Lou Amell seconded. All were in favor with no opposition. Meeting adjourned.

QUESTIONS AND ANSWERS FROM MEETING

1. Chris Ipsen: To Jeremy Zollo – You mentioned that it is dedicated to public safety but then you also mention excess capacity users. Can you speak to that co-location model - is this going to be implicitly used for public safety or are there going to be other users allowed on the system based upon economies of scale for underserved areas of Nevada?

Answer: Jeremy Zollo/Brian Hobson – A better way to state it might be that public safety has priority access to the spectrum and users of commercial partners will have secondary access not to interfere with public safety users. From a public safety user perspective, this will work seamlessly and they would probably never know that the secondary excess capacity user is on the system. These secondary users allow FirstNet to generate extra revenue to help offset costs.

2. George Molnar: Has there been a study or any kind of research backing up the idea of excess capacity given that our experience in telecommunications over the last 100 years is that when capacity exists, it becomes filled? We need 4G LTE as we do not use the old modems and such. Is it realistic to expect that 10 years down the line that public safety will have excess capacity or will we subsume it? Does FirstNet anticipate needing to go back and ask for further spectrum down the road?

Answer: Brian Hobson/Jeremy Zollo – Right now, priority exists within LTE, it just has not been exercised as of yet. In the commercial industry, right now all traffic is equal. They are partnering with PSCR which is a research lab that is collocated with our technology team in Boulder, CO. They are doing a tremendous amount of modeling and testing in their lab. FirstNet has not thought far enough down the road regarding the need to request further spectrum.

3. Kevin Judice: Can you give an idea of who the commercial customers are? What type of class of customers are you talking about? You are talking about potentially leveraging existing infrastructure. What percentage of that infrastructure do you anticipate being provided by partners?

Answer: Jeremy Zollo – We do not know yet. FirstNet is still in the conceptual phases and this has not yet been determined. This is the discovery phase. A formal opinion has not yet been formed regarding exactly who the users are going to be. Regarding usage of assets, they will get into that further later on.

4. Michael Barnbeck: Has FirstNet been in any type of transition with the Nextgen 911 standards? A large amount of data will be utilized with the Nextgen 911, especially with video.

Answer: FirstNet has been engaging with Nextgen 911. They have not gone into what the requirements will potentially look like. Each state will look differently. It is difficult to define today requirements for down the road. FirstNet is very aware of this and are looking into it. The system will be designed with this in mind but no formal capacity needs have been determined.

5. Chris Ipsen: You mentioned you are in the planning phase and I also looked at the representation on the board. I am concerned about state and local representation.

Answer: Jeremy Zollo/Brian Hobson - There is a former governor, current mayor, current police chief, current sheriff, retired fire chief, and current EMS official on the board with 6 of 15 currently representing state and local public safety.

6. Chris Smith: If we are looking at FirstNet public safety primary users and the network has been built out, is it conceivable to think then that commercial vendors, say XYZ Cellular Company, is going to be providing some secondary user access, like cell phone data access that could provide residents in rural communities that don't currently have that capability, that secondary access and then subsequently then it would be phased out if there was a public safety event, but up until that point, we may be able to have areas of the state that are not yet coverage have coverage with a secondary user base.

Answer: Jeremy Zollo/Brian Hobson – Yes. Today's devices do not work in Band Class 14. First devices need to be developed and then they have to actually drive this in the commercial community so that they have access to this spectrum.

7. Lou Amell: I have followed this discussion since its inception and the commercial companies have said they would not allow FirstNet to have sole access to the spectrum on their network.

Answer: Jeremy Zollo/Brian Hobson/Claudia Wayne – FirstNet is a government entity run on behalf of public safety first responders, separate from the commercial providers. FirstNet will find a partner to utilize the partner's infrastructure but it will be FirstNet's network. There will also be opportunity for lease agreement with commercial providers. In the case of a lease agreement, part of the agreement will be priority for public safety users.

8. Brian Taylor, Manager for REMSA: Some of our skepticism they have is that in the past we have had agreements with commercial providers for priority access when needed but that has not been the case.

Answer: Jeremy Zollo/Brian Hobson – Jeremy reviewed the process and what is happening with FirstNet. Public Safety will have priority on the FirstNet system and it will be the secondary users that will be bumped from the system in the event of an emergency.

9. George Molnar: You mentioned network fees for the core and then for the spectrum. In an opt-out scenario, would the State be required to pay those core fees or would it be the subscribers within the state?

Answer: Jeremy Zollo – Correction, just the core. With regard to an opt out scenario, FirstNet has the right to charge a fee to access the nationwide core.

10. Dave Hunkup: What types of efforts will be made to reach out to the tribes with regard to the state consultation? How can tribes participate in input? The majority of tribes across the nation are very rural.

Answer: Jeremy Zollo – FirstNet is very sensitive to that. There is dedicated tribal outreach. Jeremy said he would provide Carl Rebstock's contact information. They are attempting to work closely with the SPOCs in order to ensure that they reach out to the tribes for each state.

11. Jim Wright: When we take the plan to the Governor, he will want full disclosure. Will we have the answers?

Answer: Jeremy Zollo – FirstNet will work with Nevada for answers. For opt in situation, FirstNet and State work together to create the plan for the Governor. For opt out situation, the State must set up their own plan of what opt out looks like.

12. George Molnar: Whether or not the State decides to opt in or opt out, will services still be available to individual jurisdictions as they decide to subscribe?

Answer: Jeremy Zollo - Correct. Services will be available regardless of who builds the network. Opt in means that FirstNet builds the network. For opt out, the State builds the network.

13. Chris Ipsen: Can you define what you mean by network partner and what you hope to obtain from that network partner?

Answer: Jeremy Zollo – The RFP has not come out yet so FirstNet is unable to speak as to what will be put into the RFP. He will send the RFI which will talk about the objectives.

14. Jeremy Zollo: Do you utilize data to track anything else besides patients? How else is data used today? Does data today enhance any of these uses?

Answer: Brian Taylor/Tim Spencer – Vehicles are tracked with GPS. HIPAA compliance comes into play in patient care records. Security is a big concern with transmission of information.

15. Matt Morris: Did you require the use of any mutual aid for this event?

Answer: Yes we did, and this is why radio changes to 800 MHz were done for mutual aid. The plan was a very good plan and worked well. REMSA was able to handle all ambulance transport without use of mutual aid.

16. Doug Harder: Was there any change to your response plan between then and now?

Answer: There has been no change but there could be with FirstNet.

17. Doug Harder: Has there been any time where the radio system has failed because they were overwhelmed?

Answer: This year, Las Vegas Metro had a 100% effective radio system. This has happened in the past but in December finalized a full build out of a P25 radio system.

18. Jeremy Zollo: From a data perspective, what are the potential problems you face in buildings?

Answer: We do not have enough bandwidth to support data. We are unable to get photos to the officers as there is not enough bandwidth. LMR struggles deep inside older casinos and is largely blacked out. For casinos that were built within the last six years, this blackout for LMR is not as big of an issue. Cellular can be an issue in commercial buildings. Private residences are not such an issue.

19. Claudia Wayne: Are you communicating with casinos regarding data? Are they willing to share data back and forth?

Answer: With Hurricane Sandy, casinos were able to opt in and opt out to share information. Gaming laws needed to be changed in order to share video from casinos. We would like to get to that level in Nevada. Currently police officers must get a security officer from the casino first. Next goal is to tie LMR throughout the police department and casinos.

20. Dave Buchanan: Do casinos have access to LMR currently?

Answer: Some casinos do have access. The actual security chiefs do have access at some properties. It is not believed that every security officer needs to have access. They are given a channel where police can go to that channel to communicate with the casino.

21. Doug Harder: Does the police department have full jurisdiction in the casino or is there a split jurisdiction? In New Jersey, the gaming floor is State jurisdiction while the hotel is local jurisdiction.

Answer: LVMPD is the jurisdiction so security has no say so in what they do. There is no split jurisdiction.

22. George Molnar: What does LMR look like for public safety grade devices?

Answer: There is no set system currently in place.

23. Matt Morris: Will FirstNet consider historical data usage or just current or future data? The best way to project future needs is from patterns of the past.

Answer: This will be an estimate and is not exact perfect data.

24. Chris Ipsen: Is there an exclusivity clause? Will we still have the capability of utilizing other resources along with FirstNet?

Answer: FirstNet is not that far along in making a policy. It is most likely that this would not be an expectation.

25. Michael Barnbeck: Has a decision made regarding who will manage priorities? State or FirstNet?

Answer: PSAC will begin to look at that.

26. Dave Gustafson: Is there a plan for support?

Answer: This will be worked out in the future. Questions will be answered in the State plan.

27. Kevin Judice: Will discussion include level of service?

Answer: This will be accomplished closer to deployment.

28. Tom Lawless: With regard to backup threshold, what is available and how fast will it be available?

Answer: This is undetermined at this time.

29. George Molnar: How much are NPSTC and public safety reports being utilized?

Answer: They will help shape the approach and will be taken into consideration.

30. Tom Lawless: Will conversations take place about how network will build out?

Answer: Yes, discussion will be had to see how to build out the network.

31. George Molnar: Is there anything in policy or legislation to prevent public companies in competition?

Answer: No. There will be competition but no one else will provide this type of service.

32. Kevin Judice: Is there anything that limits FirstNet?

Answer: Legislation states that FirstNet cannot make a profit. There are no limits on types of service.

33. Lou Amell: How will a decision be made as to where FirstNet will start?

Answer: There is no answer to that question yet.