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Sent: Friday, November 08, 2013 12:03 PM

To: Harris, Tom; CBurtis@cityhall.nyc.gov; karl.voss@nfl.com; McCarton, Frank

Cc: mmugnos@cityhall.nyc.gov; ralph.beaver@nfl.com

Subject: RE: Frequency Coordination for Times Square

Hi Everyone,

The NFL has been frequency coordinating every NFL event and venue since Super Bowl XXX. In most cases, the venue is a controlled location and we can verify the frequency everyone is operating on before they enter the venue. However, Super Bowl Blvd will not be a controlled venue and we believe that presents some major challenges for frequency coordination as users come and go on from any part of the Blvd.

What we are trying to do is at least make sure all the fixed users, both permanent locations and temporary sets, will not interfere with each other and plan on dealing with itinerant users (meaning news type users) as problems arise. To do this, we need to build a database of what is in use on and around Super Bowl Blvd.

The info we need to build the database is the following:

1. Venue name,
2. Venue address,
3. Is the venue RF shielded; i.e. are there any big glass windows that look out from the venue to the Blvd or is the device used outdoors
4. Does the venue hold an FCC license to operate the devices – including low-power wireless devices, i.e. mics, In Ear Monitors (IEM), intercoms, etc.
5. Venue technical contact,
6. Tech contacts e-mail address
7. Tech contacts 24x7 phone number or some way to contact them in case of a problem
8. Frequencies in use at that venue. Please include
 - a. Frequency used
 - b. Bandwidth required
 - c. Transmitter power used
 - d. Is the transmitter and receiver frequency agile
 - e. How is the frequency used; i.e. intercom base, intercom beltpack, wireless mic, IEM, walkie-talkie, backup, spare, communications, security, building maintenance, WiFi, ticket scanning, etc.
 - f. Make and model of the transmitter (in case we find a conflict and can suggest an alternate frequency to operate on)
 - g. Is the device used outside of the venue? If so, please identify that device
 - h. Please identify any CRITICAL devices; i.e. devices that cannot move in frequency or primary talent mics, etc.

Please e-mail the information to the NFL Frequency Coordination Group at sb48frequency@nfl.com or specific questions to karl.voss@nfl.com and we will enter it into the database. You can provide the information in whatever format you have it in as we can import almost any file format into the database. Once the information is in the database, you will receive a confirmation email from me that includes all the frequencies I've entered. PLEASE go through that confirmation and verify the

frequencies have been correctly entered as the confirmation message is generated directly from the database.

I'm not sure if it's best for you to introduce the users to us or collect the info and submit it to us. I'll leave that up to you as you know the politics and users best. But we'd like to have this information as early as possible, preferably before Dec 1, so we can get everything entered LONG before the holidays kick into gear!

Once we collect all this information to build the base database, we then start plugging in requests we get from temporary users to create a channel plan that we believe will work for everyone. From that point on, it's just a matter of dealing with little problems, tweaking the plan and chasing down itinerant users...

I hope this describes the process we have used at every NFL event and plan to use for SB Blvd. Feel free to contact me if you have any further questions. My cell phone is 602-989-2283 or e-mail karl.voss@nfl.com.

Thanks in advance

Karl

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