



MOTOROLA – 700 MHz DEMO SYSTEM Broward County, Florida

Purpose:

Motorola is committed to place temporarily into operation a 700 MHz “demo” system in accordance with the FCC rules stated in Title 47 Part 90, Subpart R, Section 90.545: TV/DTV Interference protection criteria.

The purpose of the “demo” system is to support Broward County in the upcoming OAS (Organization of American States) conference during June 4-7 2005. Dozens of high-level diplomats and foreign official are expected to attend. The demo system is needed to support and ensure the security and reliability of the communication systems for a network of local, state, and federal law enforcement agencies at during this event (A minimum of 500 users are expected). The system is not intended to cover the entire Broward County, it is designed to be contained and only serve the Broward County Convention Center area.

System Design:

With the reduced coverage requirement and the TV interference in mind, Motorola will install the equipment in a transportable trailer that will be parked outside the Broward County Convention Center. This transportable trailer is designed with an antenna mast with a height of 60 ft and low power equipment of 8.7 watts maximum ERP to make sure that the demo system does not come into the vicinity of the 700/800 MHz TV stations.

The local TV stations in the vicinity of the proposed site are:
Distances calculated per Section 73.208 (FM) and Section 73.611 (TV)

WPPB-TV CH 63 (764-770 MHz)

26° 07' 11" N; 080° 10' 38.7" W
Distance to the proposed site: 3.72 miles

CH 63 frequency band ranges from 764 – 770. The audio of this TV channel transmits on frequencies 769.75. We spoke with WPPB-TV representatives and confirmed that they have directional antennas pointing north towards the City of Boca Raton.

The Motorola Demo System transmits on six frequencies that range from 764.281 – 766.781. These frequencies are at least 3 MHz away from the audio frequency of WPPB-TV CH 63. (See System Information and Frequency Diagram on pages 3 & 4). The maximum ERP of this system is 8.7 watts and the antenna used in this demo system is positioned at a low height of 60ft with a low gain of 2.5 dB.

Taking into consideration that the antenna for WPPB-TV is directional, the sufficient frequency separation, our low power ERP, and the fact that our system was designed to contain coverage within the Broward County Convention Center area we should not impact the audio quality of WPPB-TV.



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WAMI-TV CH 69 (800-806 MHz)

25° 59' 09" N; 080° 11' 37" W

Distance to the proposed site: 8.96 miles

CH 69 frequency band ranges from 800 to 806. The audio of this TV channel transmits on frequencies 805.75. Our portables (3 watts) will transmit on the CH 68 frequencies that range from 794.28 – 796.28. These frequencies are at least 8 MHz away from CH 69. Motorola will be transmitting on CH 63 frequencies. This frequency separation and low power portables should not cause interference with WAMI-TV CH 69. (See System Information and Frequency Diagram on pages 3 & 4).

Due to frequency separation, our low power (8.7 watts ERP), and the fact that our coverage print will not reach this site we do not expect any interference with WAMI-TV.



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Motorola 700 MHz “Demo” System Information:

Site: Broward County Convention Center

Address: 1950 Eisenhower Blvd
Ft. Lauderdale, FL 33316

Coordinates: 26-05-57.9 N 80-07-23.9 W
Elevation: 60 ft.

ERP: 8.7 watts maximum.
Occupied bandwidth: 8.7 KHz per station

Total # of channels: six (6)

Frequencies:

CH	6.25 KHz CH #'s	TX	6.25 KHz CH #'s	RX
1	45-46	764.28125	1005-1006	794.28125
2	125-126	764.78125	1085-1086	794.78125
3	205-206	765.28125	1165-1166	795.28125
4	285-286	765.78125	1245-1246	795.78125
5	365-366	766.28125	1325-1326	796.28125
6	465-466	766.78125	1405-1406	796.78125

Subscribers:

Motorola XTS 5000 Portable
Power output: 3 watts
Location: Subscribers not to roam beyond a 3 mile radius from Broward Convention Center.

Motorola XTL 5000 control stations
Power output: 25 watts
Location: Broward County Convention Center. HAAT: 20 ft.

Mobile Units: None.

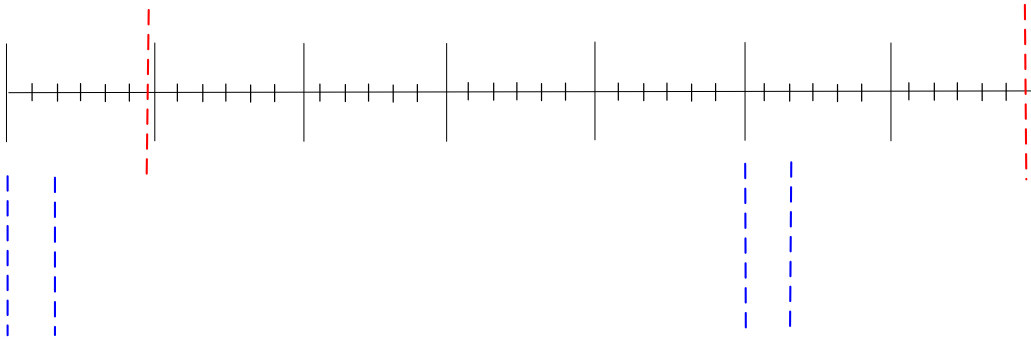
This shows that the Motorola “demo” system complies with Sec.90.545 item b, Maximum ERP and HATT.



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Frequency Diagram:

The diagram below is included to clarify the frequencies involved in this project.



Motorola acknowledges the FCC regulations governing the licensing and use of frequencies in the 764-776 and 794-806 MHz bands and commits to operating during this week period (June 4 – 7, 2005) in accordance with the applicable laws and working with the local TV stations to make sure any issue is quickly corrected or the system will immediately be shut down.

Contact Information:

If you have any questions or concerns please feel free to contact the following persons listed below.

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Mauricio Correa, SE	954-723-8951

WPPB-TV