



MOTOROLA – 700 MHz DEMO SYSTEM City of Miami, Florida

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 the City of Miami Police Department in the upcoming FTAA (Free Trade Area of the Americas) summit during November 16-22 2003. The system is not intended to cover the entire City of Miami, serving only the downtown area as a backup for the public safety users Police and Fire Departments.

With the reduced coverage requirement and the TV interference in mind, Motorola has selected a very low roof top site (80 ft.) and low power equipment (45 watt stations for a total maximum ERP of 250 watts) to make sure we do not come into the vicinity of the 700/800 MHz TV stations.

The local TV stations in the vicinity of the proposed site are:

WPPB-TV CH 63 (764-770 MHz)

26° 09' 11" N; 080° 10' 12" W

Distance to the proposed site: 23.91 miles

We are transmitting on CH 63 frequencies but due to our low power (250 watts ERP) we are geographically away from this site ensuring we will not interfere with WPPB-TV. We spoke with WPPB-TV representatives and they have directional antennas pointing north towards the City of Boca Raton, which also ensures they will not impact our system.

WAMI-TV CH 69 (800-806 MHz)

25° 59' 09" N; 080° 11' 37" W

Distance to the proposed site: 20.89 miles

We are transmitting on CH 63 frequencies (30 MHz away from this CH 69) so we do not expect any interference to WAMI-TV due to frequency separation, our low power (250 watts ERP), and the fact that our coverage print will not reach this site. Our portables (3 watts) will transmit on the low side of CH 68 frequencies (see system information in next page) 4 MHz away from CH 69.

DBU contours shown in Figure 1 of this document indicate that the proposed site location is at a sufficient distance from the co-channel (CH 63) and adjacent TV channel (CH 69) transmit locations and complies with Sec 90.545 item a.

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



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Motorola 700 MHz “Demo” System Information

Site: Miami Police Department.

Address: 400 N.W. 2nd Avenue
Miami, FL 33128

Coordinates: 25° 46’ 41” N 080° 11’ 54” W

Elevation: 80 ft.

ERP: 250 watts maximum. (45 watts per station)

Occupied bandwidth: 8.7 KHz per station

Total # of channels: Five

Frequencies:

	6.25 KHz CH #s	BS TX (CH 63)	6.25 KHz CH #s	BS RX (CH 68)
CH 1	45-46	764.28125	1005-1006	794.28125
CH 2	125-126	764.78125	1085-1086	794.78125
CH 3	205-206	765.28125	1165-1166	795.28125
CH 4	285-286	765.78125	1245-1246	795.78125
CH 5	365-366	766.28125	1325-1326	796.28125

Subscribers:

Motorola XTS 5000 Portable

Power output: 3 watts

Location: Subscribers not to roam beyond a 3 mile radius from the Police Department site.

Motorola XTL 5000 control stations

Power output: 25 watts

Location: Fixed. Police Dept. site, HAAT: 30 ft.

Mobile Units: None.

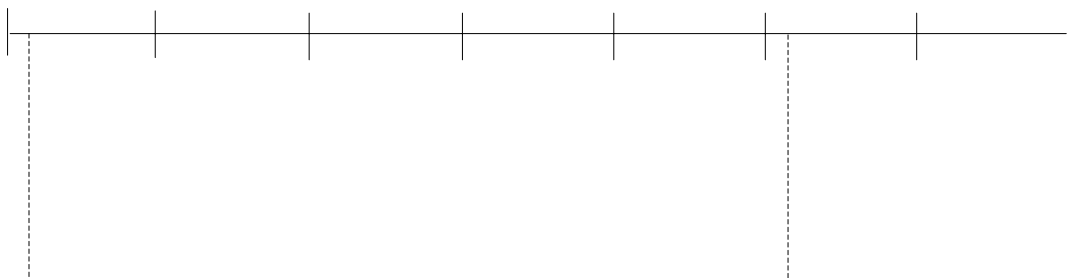
Motorola acknowledges the FCC regulations governing the licensing and use of frequencies in the 764-776 and 794-806 MHz bands and commits to operating during this week period (Nov. 16-22, 2003) in accordance with the applicable laws and working with the local TV stations to make sure any issue is quickly corrected or the system immediately shut down.



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Frequency Diagram

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





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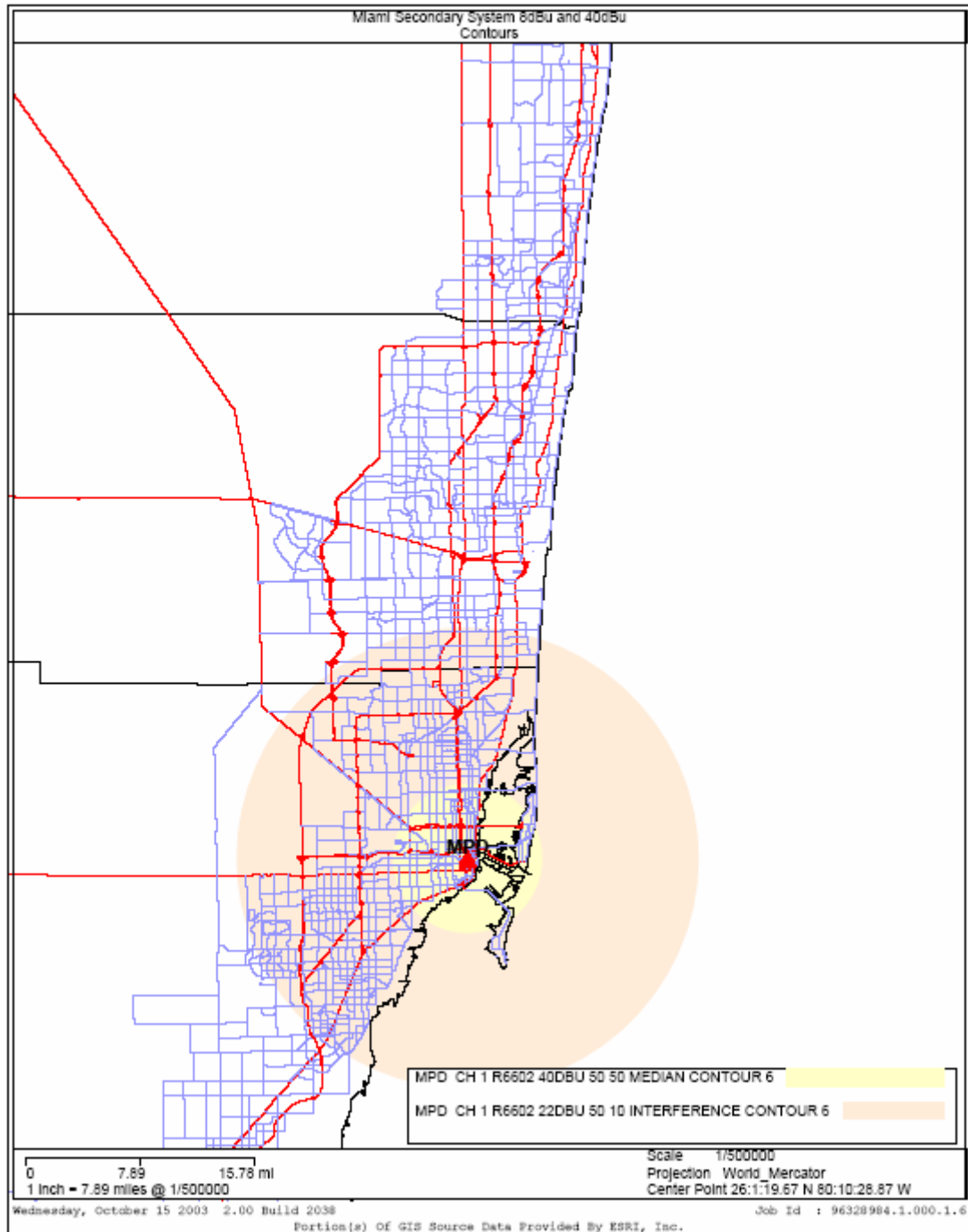


Figure 1. Miami PD site – DBU contours