

TECHNICAL STATEMENT
APPLICATION FOR CONSTRUCTION PERMIT
LPTV STATION WTPM-LP
MAYAGUEZ-ANASCO, PUERTO RICO
DIGITAL CHANNEL 45 1 KW

This Technical Statement was prepared in support of an application for construction permit for LPTV station WTPM-LP, Mayaguez-Anasco, Puerto Rico. WTPM-LP is authorized for operation on Channel 67 (analog) with a non-directional effective radiated power (ERP) of 18.5 kW and an antenna height of 417 m above mean sea level (See FCC File No. BLTTL-19950905ID). The purpose of the instant application is to authorize displacement to in-core Channel 45 (digital), with a decrease in ERP and an increase in antenna height. There is no change in the proposed transmitter site. This application is classified as a minor change.

Environmental Considerations

With respect to the potential for human exposure to radio frequency (RF) radiation, calculations prepared in accordance with FCC Bulletin OET-65 (Edition 97-01) indicate that the proposal will not result in human exposure to RF radiation at ground level in excess of FCC standards. Power density calculations were conducted at 2-m above ground based on the following conservative assumptions, with the following results:

Call Sign	Channel	Average ERP (kW)	Antenna Height above Ground (m)	Relative Field Factor *	FCC Limit [†] (mW/cm ²)	Percentage of Limit
WTPM-LP	45	1.0	77	0.25	0.4393	0.1%

As indicated above, the exposure to RF radiation at 2-m above ground level will not exceed 0.1% of the FCC limit for general population / uncontrolled exposure. Therefore, the proposal complies with the FCC limits for human exposure to RF radiation and it is categorically excluded from environmental processing.



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March 17, 2006

* This is a conservative estimate of the relative field factor in the downward direction. See Appendix 1.
† for general population/uncontrolled environments

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Transmitting Antenna Elevation Pattern Data

(one sheet follows)



Date

17 Mar 2006

Call Letters

Channel 45

Location

Customer

Antenna Type

DL-8

ELEVATION PATTERN

RMS Gain at Main Lobe

8.0 (9.03 dB)

Beam Tilt

1.00 Degrees

RMS Gain at Horizontal

7.5 (8.75 dB)

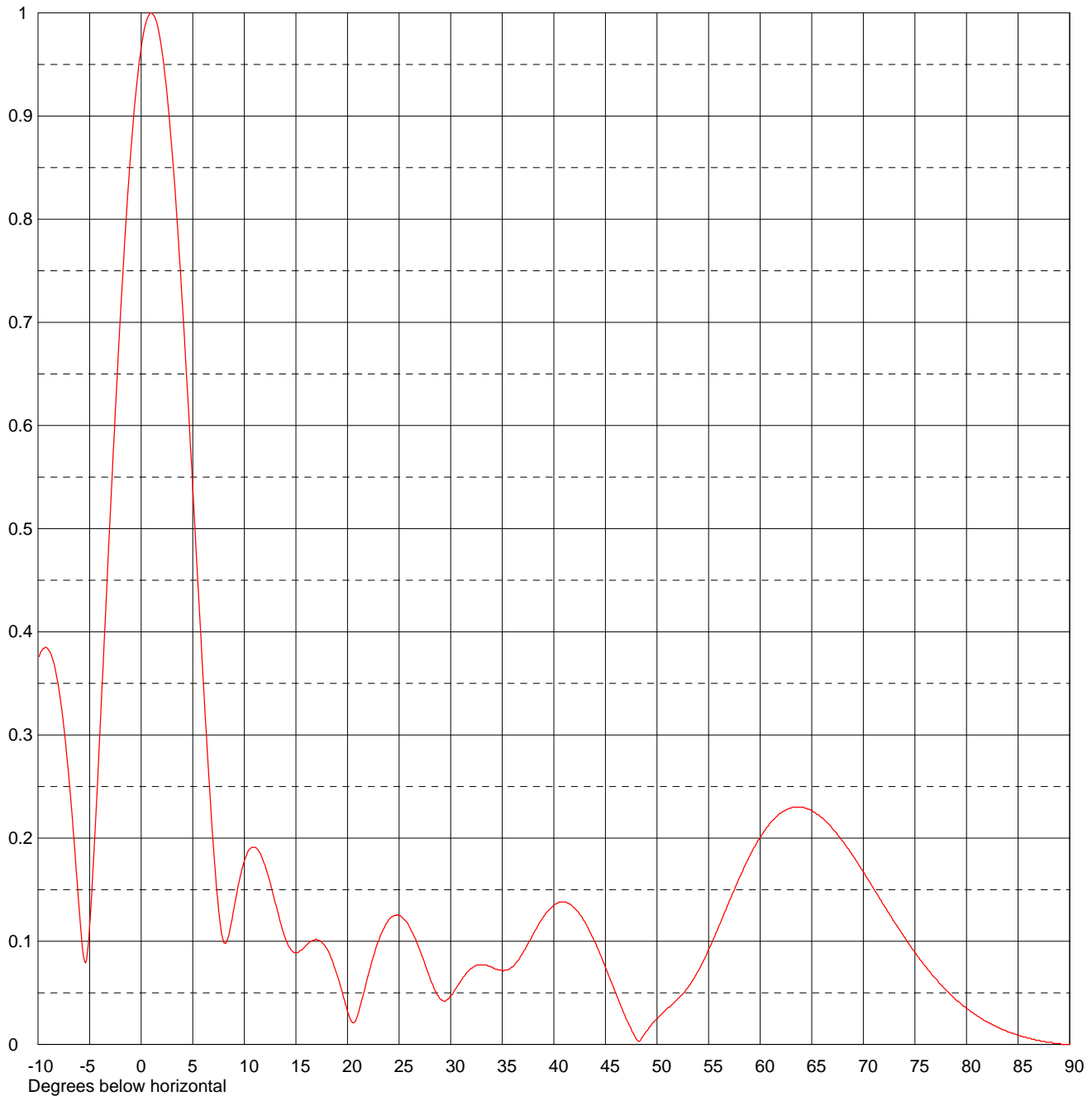
Frequency

659.00 MHz

Calculated / Measured

Calculated

Drawing #

08L080100-90

Remarks: