

TECHNICAL EXHIBIT
MINOR MODIFICATION APPLICATION
STATION WMBB-DT (FACILITY ID 66398)
PANAMA CITY, FLORIDA

MAY 17, 2006

CH 19 700 KW (MAX-DA) 405 M

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Technical Narrative

This Technical Exhibit supports a minor modification application for digital television station WMBB-DT on channel 19 at Panama City, Florida. Station WMBB-DT is authorized to operate with a non-directional antenna visual effective radiated power (ERP) of 1000 kW and an antenna height above average terrain (HAAT) of 405 meters (BPCDT-19991026ABS).

This application proposes to specify a different directional antenna and reduce ERP. There is no proposed change in channel (19), antenna height, transmitter site or city of license (Panama City). The site coordinates remain (NAD27): 30-21-08 N, 85-23-28 W. A directional antenna maximum ERP of 700 kW and antenna HAAT of 405 meters is proposed. The antenna structure registration number (ASRN) is 1043251 (see Figure 1).

The proposed facility will not result in any extension of the composite authorized/allotted noise-limited contour as shown in Figure 2. Therefore, the proposal meets the terms of the FCC Filing Freeze for digital television stations.¹ The proposal complies with Section 73.622(f)(8) concerning maximum power and antenna heights.

Allocation Considerations

An interference analysis using the provisions of the FCC's OET-69 program was conducted. The OET-69 results indicate that only "de minimis" interference will be caused to any station. The results are shown below:

¹ See August 2004 Filing Freeze PN, DA 04-2446 (MB released Aug. 3, 2004).

<u>Ch</u>	<u>Call</u>	<u>City</u>	<u>St</u>	<u>Status</u>	<u>Application Ref. No.</u>	<u>Before</u>	<u>After</u>	<u>Baseline</u>	<u>Change</u>	<u>%</u>
16	960724KO	MARIANNA	FL	APP	BPET-19960724KO	38380	38410	339754	30	0.009
18	WDHN	DOTHAN	AL	LIC	BLCT-2038	5210	4935	291249	-275	-0.094
18	960920WX	MOBILE	AL	CP	BPCDT-19960920WX		There is no interference to station			3
18	NEW	MOBILE	AL	LIC	BPRM-20000714ABV		There is no interference to station			4
19	WIIQ	DEMOPOLIS	AL	LIC	BLEDT-20031023AAI	21246	21246	120823	0	0
19	WIIQ-DT	DEMOPOLIS	AL	PLN	DTVPLN-DTVP0336		There is no interference to station			6
19	WOTM-LP	MONTEVALLO	AL	LIC	BLTTL-19970514JI		There is no interference to station			7
19	WTEV-TV	JACKSONVILLE	FL	LIC	BLCDT-20030328ANV		There is no interference to station			8
19	WTEV-DT	JACKSONVILLE	FL	PLN	DTVPLN-DTVP0343		There is no interference to station			9
19	WMOR-TV	LAKELAND	FL	LIC	BLCDT-20050726ABO		There is no interference to station			10
19	WGCL-TV	ATLANTA	GA	CP	BPCDT-20040220ACX	18088	18088	3089968	0	0
19	WGNX-DT	ATLANTA	GA	PLN	DTVPLN-DTVP0347		There is no interference to station			12
19	WPHJ-CA	VIDALIA	GA	APP	BPTTA-20020523AAY		There is no interference to station			13
19	WMAH-TV	BILOXI	MS	LIC	BMLET-20030103AAP	15928	15928	599452	0	0
20	WMPV-DT	MOBILE	AL	PLN	DTVPLN-DTVP0386		There is no interference to station			15
20	WMPV-TV	MOBILE	AL	APP	BMPCDT-20051024ACH		There is no interference to station			16
20	WMPV-TV	MOBILE	AL	CP	BPCDT-19991101AHY		There is no interference to station			17
20	WCOV-TV	MONTGOMERY	AL	CP	BPCT-20041103ADU		There is no interference to station			18
20	WABW-DT	PELHAM	GA	PLN	DTVPLN-DTVP0394	3052	3052	644514	0	0
27	WTXL-TV	TALLAHASSEE	FL	LIC	BLCT-19990510KE		There is no interference to station			20

Calculations have been made concerning interference that the proposed WMBB-DT operation would receive. The calculations are based on the OET-69 procedures using a 2 kilometer grid and the 2000 Census. After consideration of terrain and interference, the proposed WMBB-DT operation would serve 591,788 people. This complies with the WMBB-DT certification and FCC's "use-it-or-lose-it" requirement.

Radiofrequency Electromagnetic Field Exposure

The proposed WMBB-DT facilities were evaluated in terms of potential radio frequency (RF) energy exposure at ground level to workers and the general public. The radiation center for the proposed antenna is located 404 meters above ground level with a maximum ERP of 700 kW. A relative field value of 0.1 was assumed for the calculation (see Figure 3). The calculated power density at a point 2 meters above ground level will be 0.0014 mW/cm². This is less than 5% of the FCC's recommended limit of 0.34 mW/cm² for channel 19 for an "uncontrolled" environment.

Access to the transmitting site will be restricted and appropriately marked with warning signs. In the event that workers or other authorized personnel enter restricted areas or climb the tower, appropriate measures will be taken to assure worker safety with respect to radio frequency radiation exposure. Such measures include reducing the average exposure by spreading out the work over a longer period of time, wearing "accepted" RFR protective clothing and/or RFR exposure monitors or scheduling work when the stations are at reduced power or shut down. It is noted that this statement only addresses the potential for radiofrequency electromagnetic field exposure. All other aspects of the environmental processing analysis will be or already have been provided to the FCC by the tower owner as part of the tower registration process.



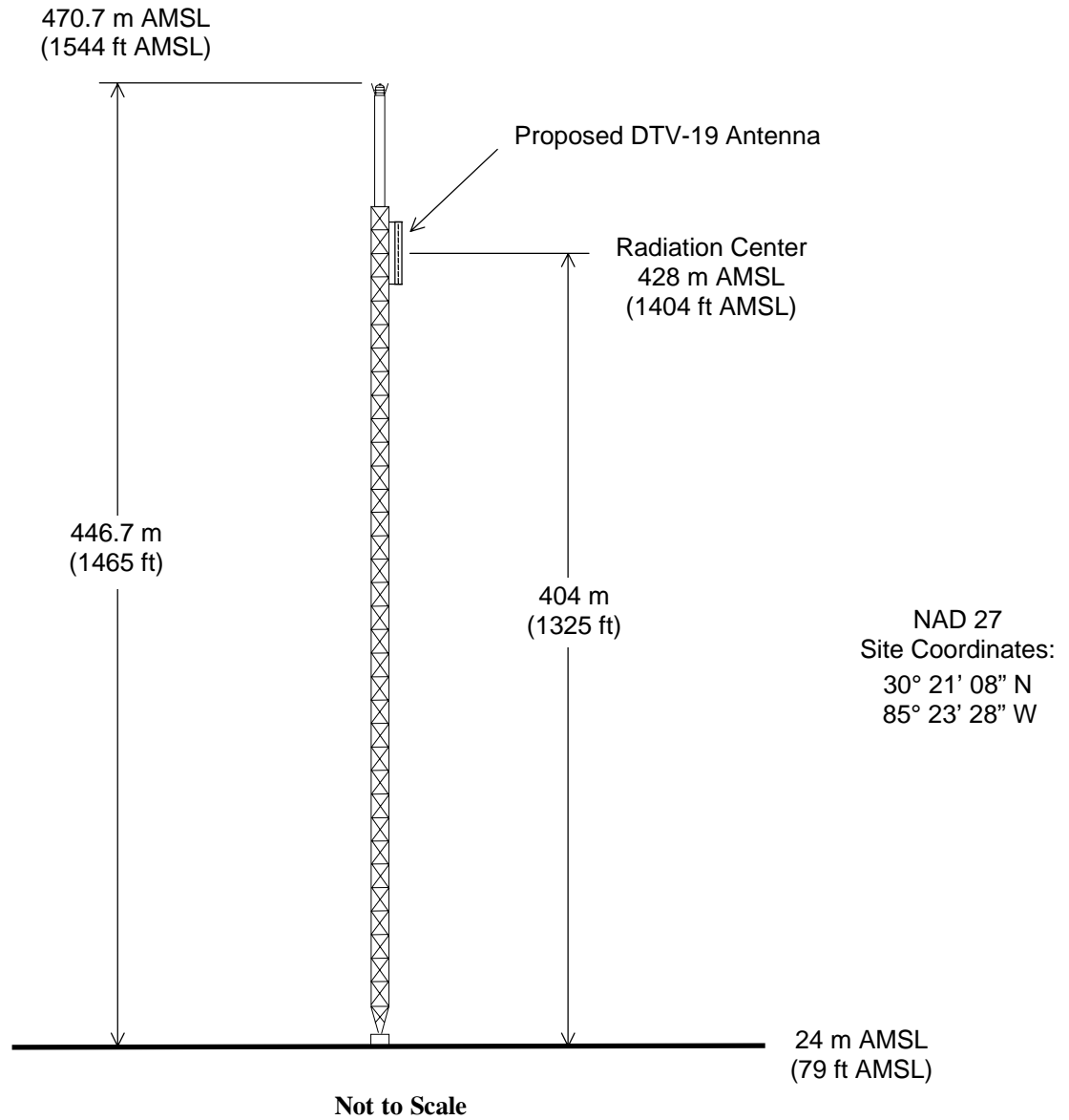
Jonathan N. Edwards

du Treil, Lundin & Rackley, Inc.
201 Fletcher Avenue
Sarasota, Florida 34237
(941) 329-6000

May 17, 2006



Registration No. 1043251



ANTENNA AND SUPPORTING STRUCTURE

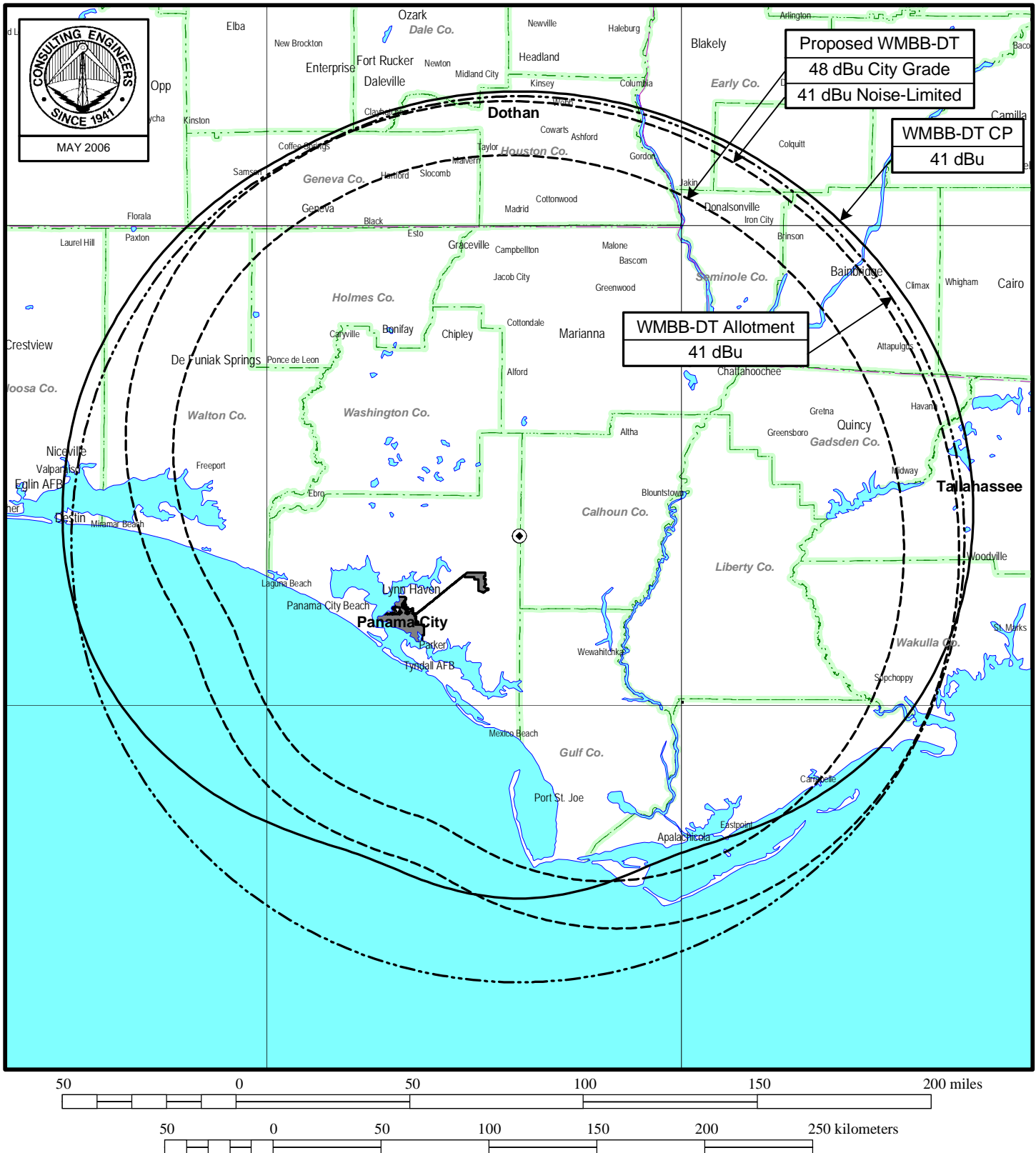
STATION WMBB-DT

PANAMA CITY, FLORIDA

CH 19 700 KW (MAX-DA) 405 M

du Treil, Lundin & Rackley, Inc. Sarasota, Florida

Figure 2



PREDICTED COVERAGE CONTOURS

STATION WMBB-DT

PANAMA CITY, FLORIDA

CH 19 700 KW (MAX-DA) 405 M

du Treil, Lundin & Rackley, Inc Sarasota, Florida

Date
Call Letters
Location
Customer
Antenna Type

16 May 2006
WMBB-DT Channel **19**
Panama City, FL
Media General
TFU-28DSC C170

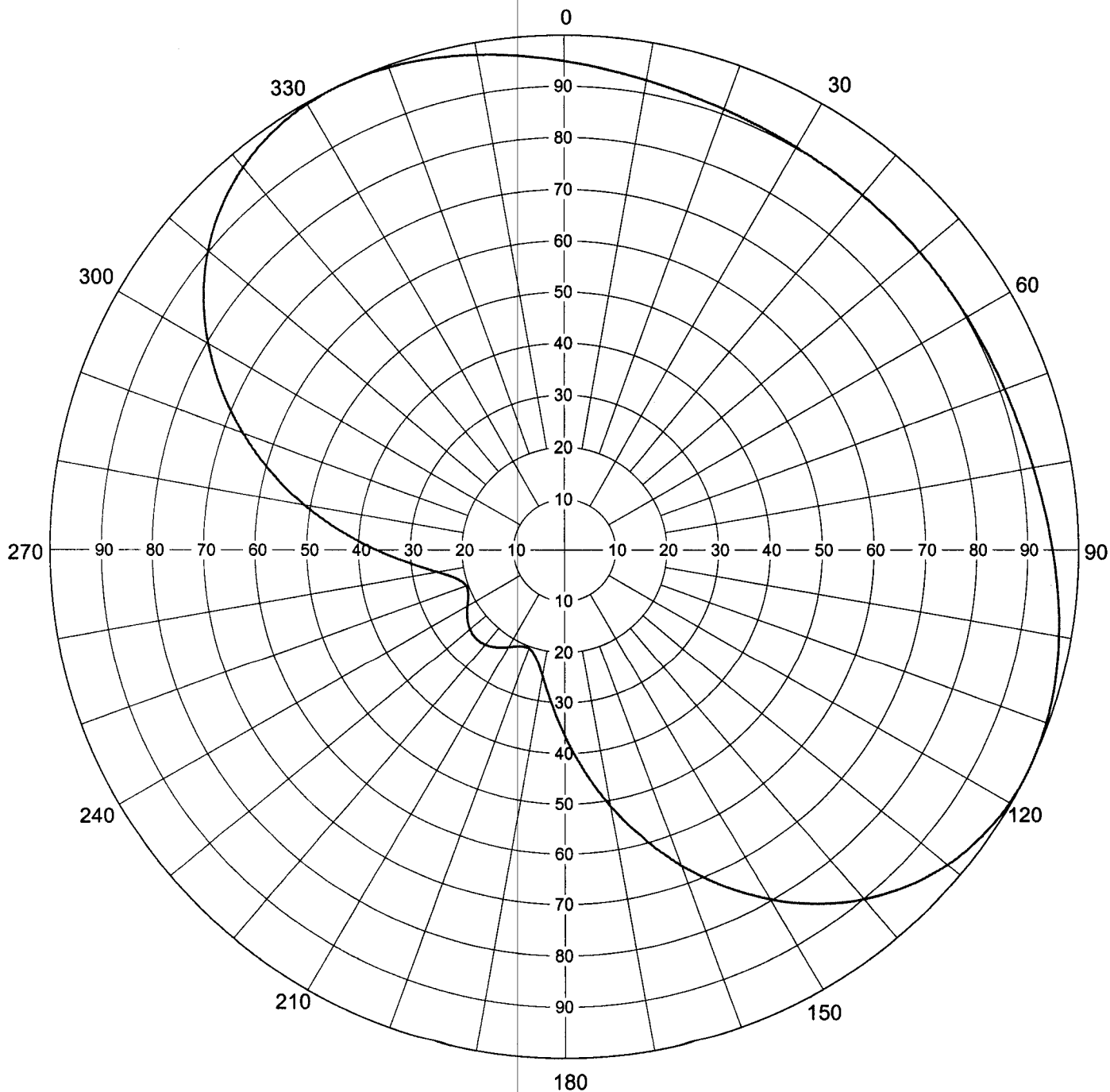
AZIMUTH PATTERN

Gain
Calculated / Measured

1.70 (2.30 dB)
Calculated

Frequency
Drawing #

503 MHz
TFU-C170



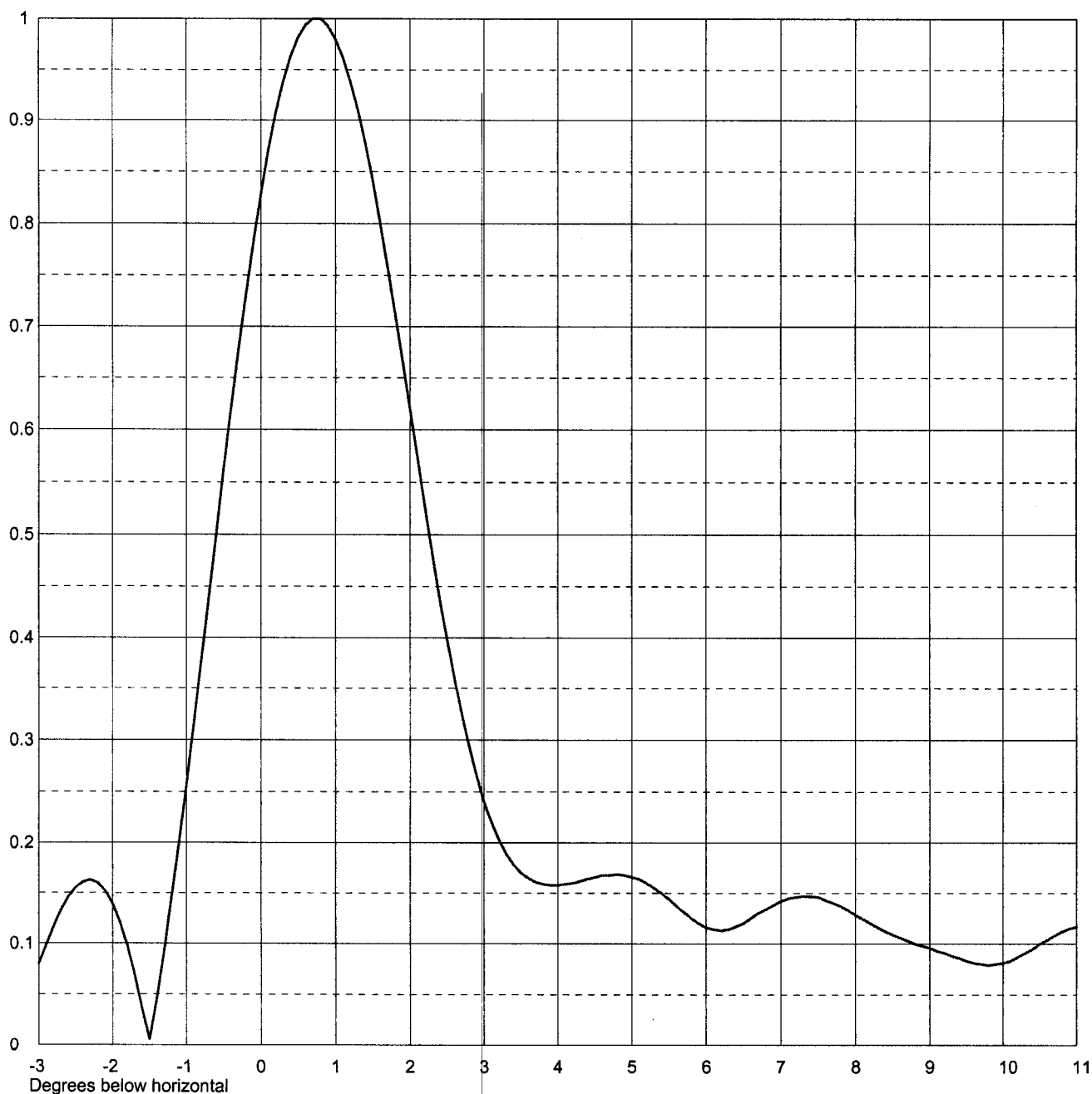
Remarks:

Date
Call Letters
Location
Customer
Antenna Type

16 May 2006
WMBB-DT Channel 19
Panama City, FL
Media General
TFU-28DSC C170

ELEVATION PATTERN

RMS Gain at Main Lobe	24.0 (13.80 dB)	Beam Tilt	0.75 Degrees
RMS Gain at Horizontal	16.5 (12.17 dB)	Frequency	503.00 MHz
Calculated / Measured	Calculated	Drawing #	28Q240075



Remarks:

Date
Call Letters
Location
Customer
Antenna Type

16 May 2006
WMBB-DT Channel 19
Panama City, FL
Media General
TFU-28DSC C170

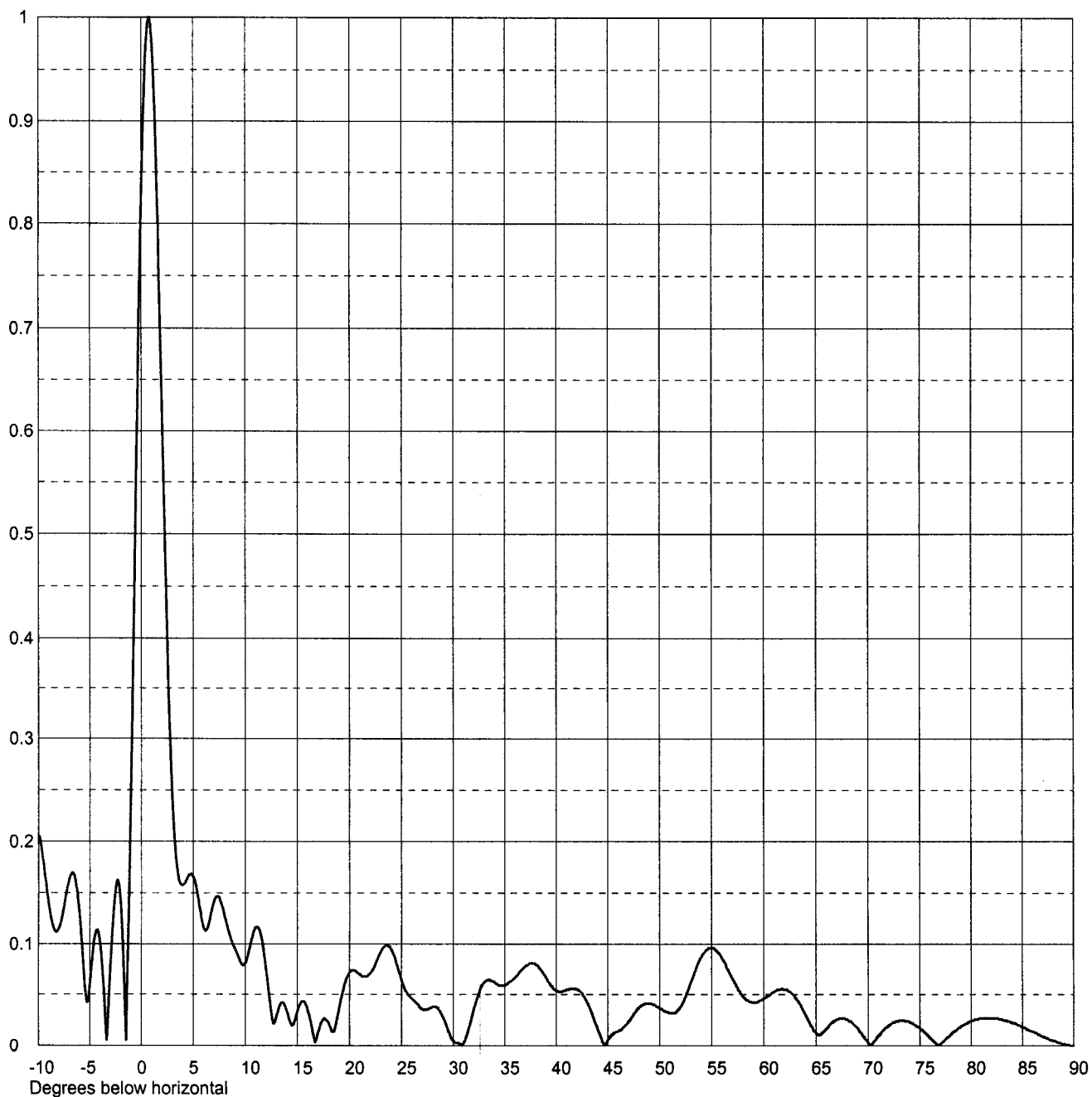
ELEVATION PATTERN

RMS Gain at Main Lobe
RMS Gain at Horizontal
Calculated / Measured

24.0 (13.80 dB)
16.5 (12.17 dB)
Calculated

Beam Tilt
Frequency
Drawing #

0.75 Degrees
503.00 MHz
28Q240075-90



Remarks: