

TECHNICAL EXHIBIT
MINOR MODIFICATION OF CONSTRUCTION PERMIT
STATION WDAM-DT (FACILITY ID 21250)
LAUREL, MISSISSIPPI

MARCH 4, 2002

CH 28 79 KW (MAX-DA) 128 M

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Technical Narrative

This Technical Exhibit was prepared on behalf of digital television station WDAM-DT at Laurel, Mississippi, in support of an application for minor modification of construction permit. Station WDAM-DT is authorized to operate on channel 28 with a non-directional antenna maximum effective radiated power (ERP) of 1000 kW and an antenna height above average terrain (HAAT) of 128 meters (BPCDT-19991025ADO). The proposed WDAM-DT facility will operate with a directional ERP of 79 kW and an antenna HAAT of 128 meters.

This application is considered “checklist” as it meets the criteria specified in Section III-D, DTV Engineering of the FCC form 301. Therefore, no allocation studies considering NTSC, DTV or Class A stations are required. The proposed directional antenna pattern (dBk) does not exceed the allotment reference pattern for WDAM-DT, as shown in Figure 2D.

Proposed Facilities

This application proposes only to reduce the directional ERP and change the directional antenna. The new antenna radiation center will be increased by 2.8 meters to 144.5 meters above ground level; however, due to implementation of the 3-second terrain

database there will be no change in antenna HAAT. The transmitter site coordinates (NAD27) remain: 31-27-12 N, 89-17-05 W. The FCC antenna structure registration number is 1046930.

There are no AM broadcast stations located within 3.2 kilometers of the WDAM-DT transmitter site. No adverse affect from this proposed checklist application is expected to any nearby broadcast station. However, the applicant recognizes its responsibility to correct problems that may result from its proposed operation.

The proposed checklist application does not require Canadian coordination. The transmitter site is beyond the 400 km coordination zone with Mexico. The closest FCC monitoring station is at Powder Springs, Georgia, more than 500 kilometers to the northeast. The closest point of the National Radio Quiet Zone (VA/WV) is approximately 1,000 kilometers to the northeast. The closest point of the Table Mountain Radio Quiet Zone (CO) is more than 1,700 kilometers to the northwest. The closest radio astronomy site operating on TV channel 37 is at Green Bank, West Virginia, more than 1,100 kilometers to the northeast. These separations are sufficient to not be a concern for coordination purposes.

Environmental Considerations

The proposed WDAM-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 DTV antenna is located 144.5 meters above ground level. The proposed maximum directional ERP is 79 kW. A conservative relative field value of 0.2 was assumed for the calculation (see Figure 2C). Therefore, the “worst-case” calculated power density at a point 2 meters above ground level will be 0.0052 mW/cm^2 . This is 1.4% of the FCC's recommended limit of 0.37 mW/cm^2 for channel 32 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. The proposed WDAM-DT operation appears to be otherwise categorically excluded from environmental processing.

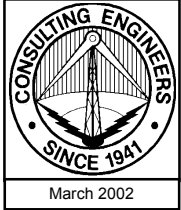


Jonathan N. Edwards

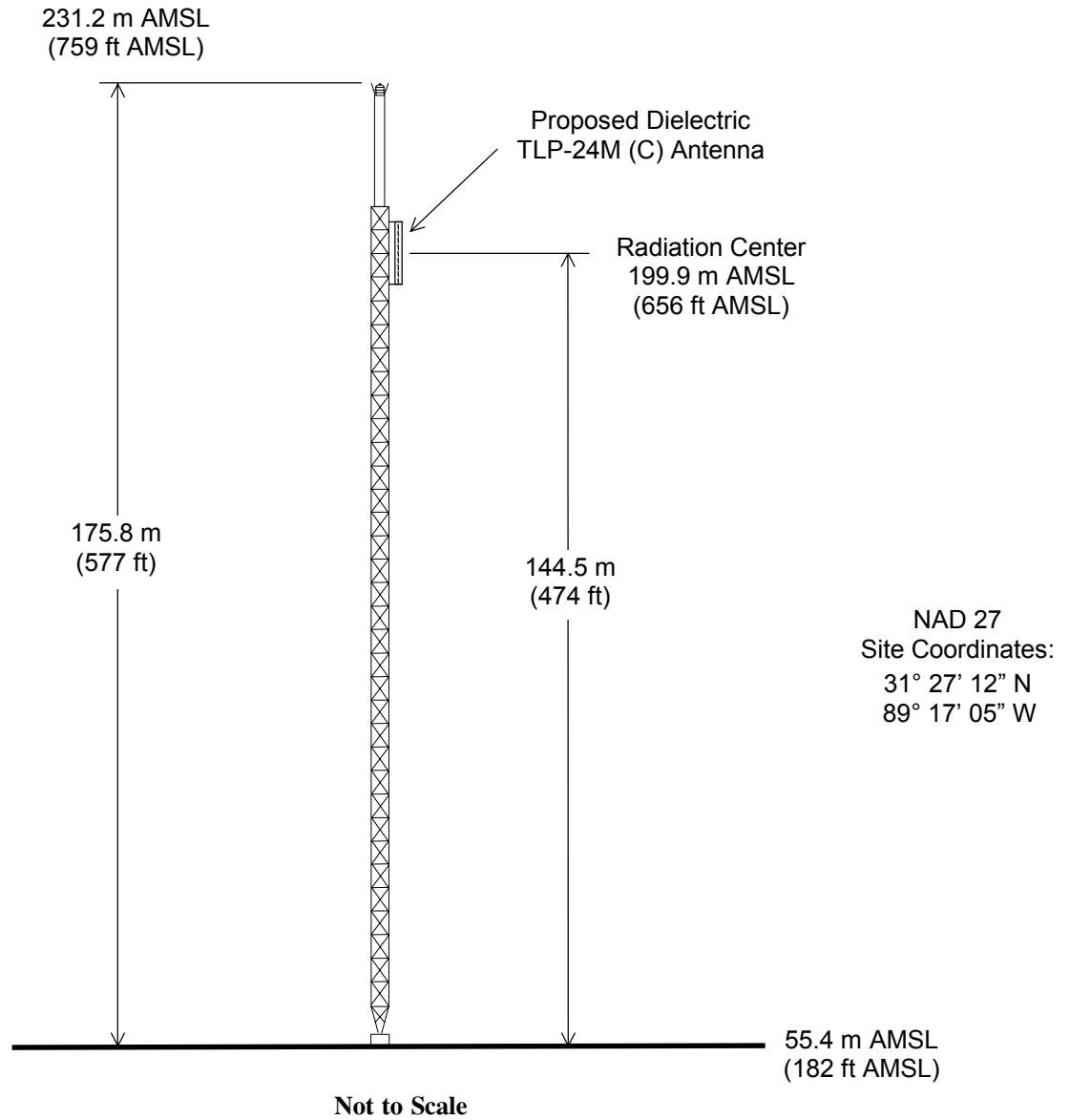
du Treil, Lundin & Rackley, Inc.
201 Fletcher Avenue
Sarasota, Florida 34237
(941) 329-6000

March 4, 2002

Figure 1



Registration No. 1046930



ANTENNA AND SUPPORTING STRUCTURE

STATION WDAM-DT

LAUREL, MISSISSIPPI

CH 28 79 KW (MAX-DA) 128 M

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



| | | |
|--------------|-------------|------------|
| Date | 04 Mar 2002 | |
| Call Letters | WDAM-DT | Channel 28 |
| Location | Laurel, MS | |
| Customer | | |
| Antenna Type | TLP-24M (C) | |

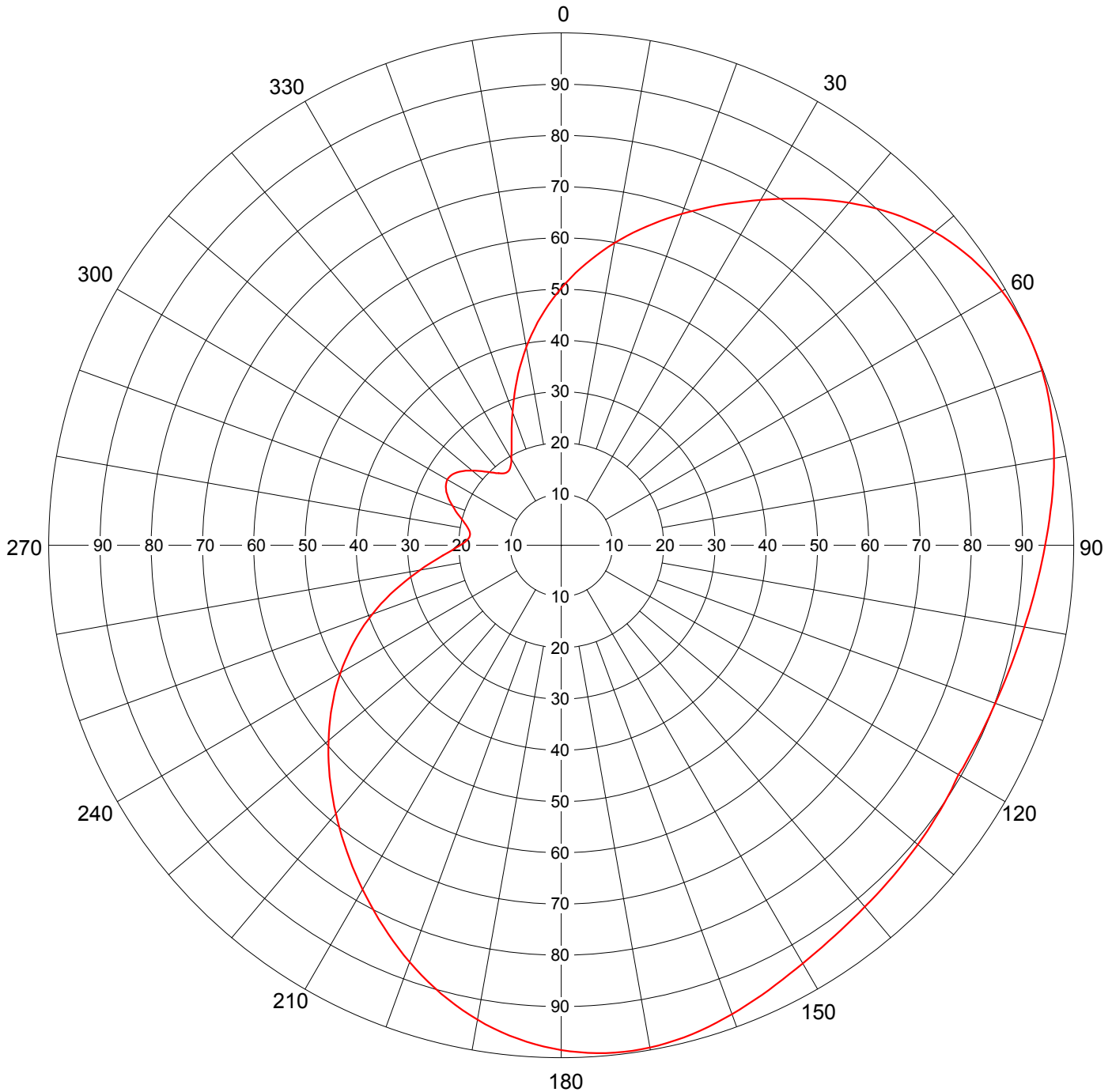
AZIMUTH PATTERN

RMS Gain at Main Lobe
Calculated / Measured

1.90 (2.79 dB)
Calculated

Frequency
Drawing #

557 MHz
TLP-M



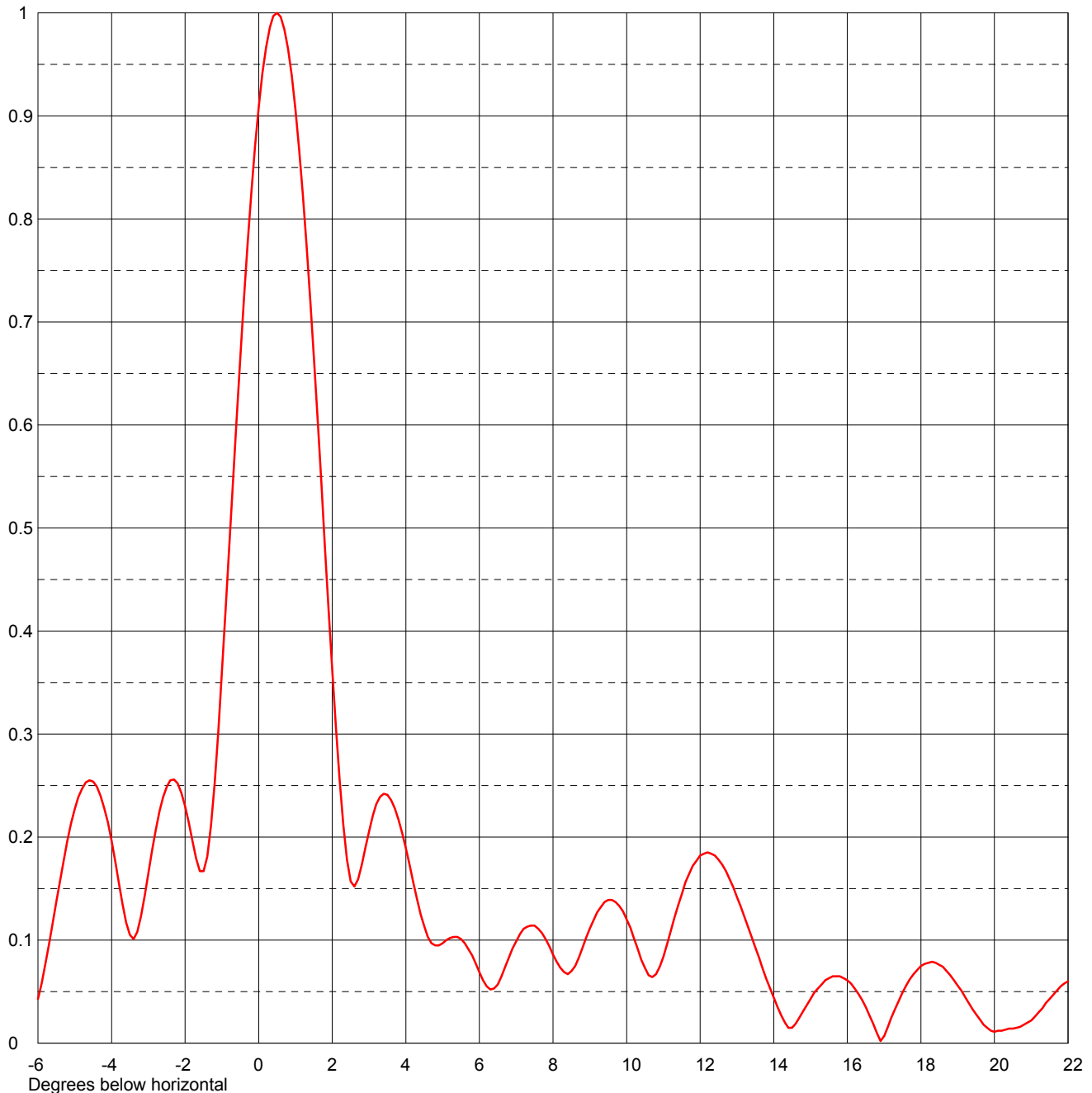
Remarks:



| | | |
|--------------|-------------|------------|
| Date | 04 Mar 2002 | |
| Call Letters | WDAM-DT | Channel 28 |
| Location | Laurel, MS | |
| Customer | | |
| Antenna Type | TLP-24M (C) | |

ELEVATION PATTERN

| | | | |
|------------------------|-----------------|-----------|--------------|
| RMS Gain at Main Lobe | 23.0 (13.62 dB) | Beam Tilt | 0.50 Degrees |
| RMS Gain at Horizontal | 19.0 (12.79 dB) | Frequency | 557.00 MHz |
| Calculated / Measured | Calculated | Drawing # | 24L230050 |



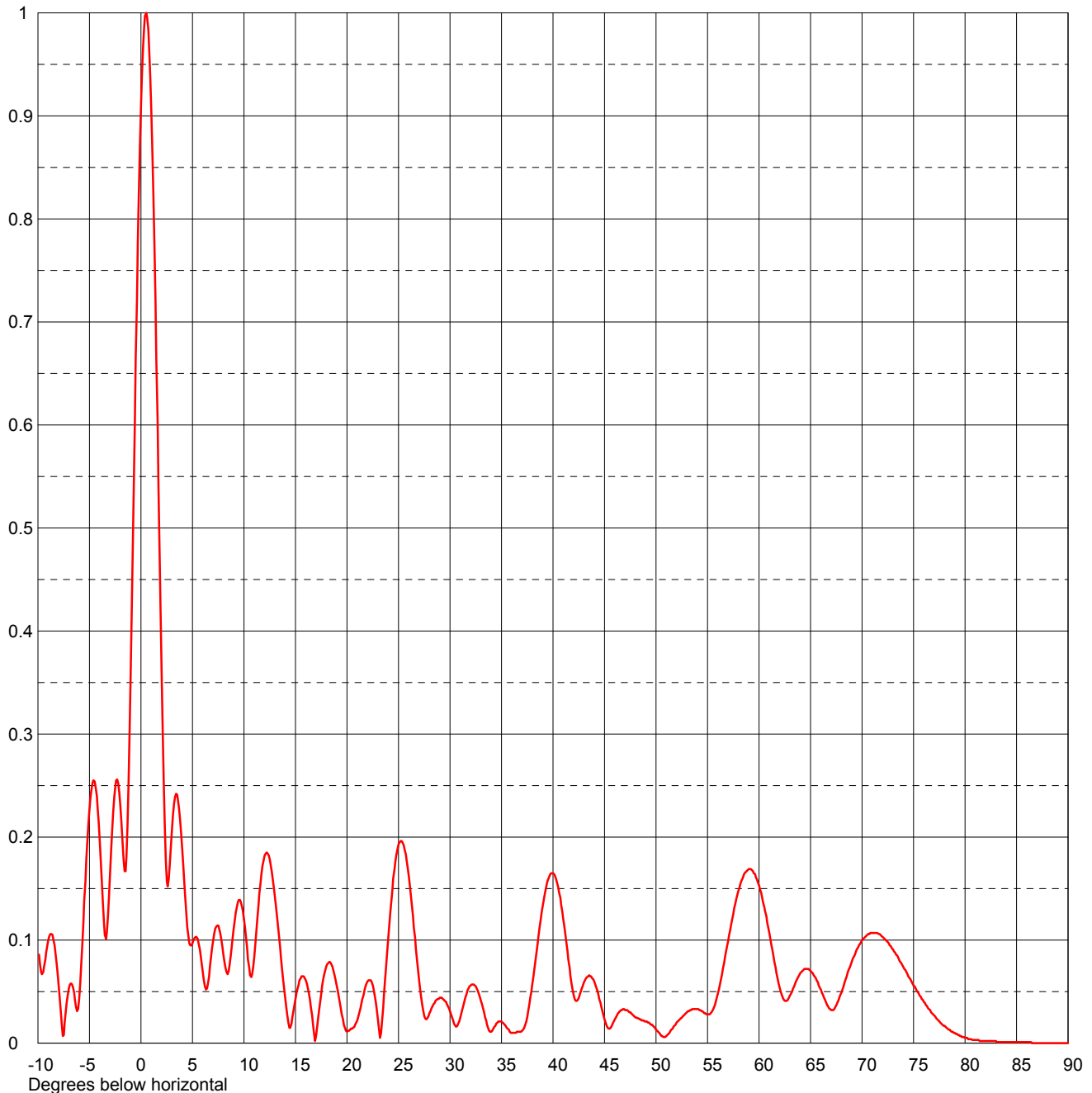
Remarks:



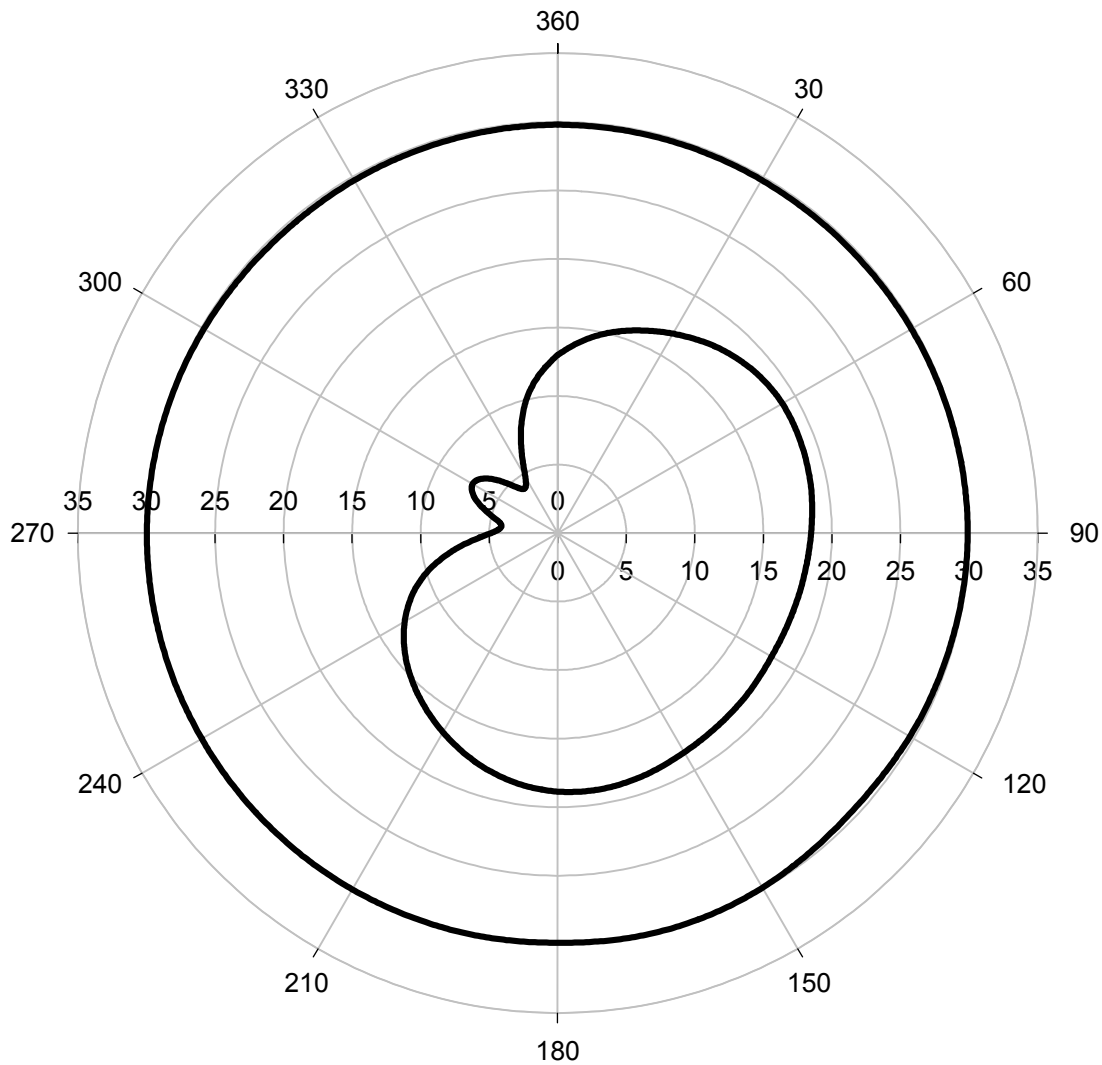
| | | |
|--------------|-------------|------------|
| Date | 04 Mar 2002 | |
| Call Letters | WDAM-DT | Channel 28 |
| Location | Laurel, MS | |
| Customer | | |
| Antenna Type | TLP-24M (C) | |

ELEVATION PATTERN

| | | | |
|------------------------|-----------------|-----------|--------------|
| RMS Gain at Main Lobe | 23.0 (13.62 dB) | Beam Tilt | 0.50 Degrees |
| RMS Gain at Horizontal | 19.0 (12.79 dB) | Frequency | 557.00 MHz |
| Calculated / Measured | Calculated | Drawing # | 24L230050-90 |



Remarks:



Inner Contour: Proposed WDAM-DT

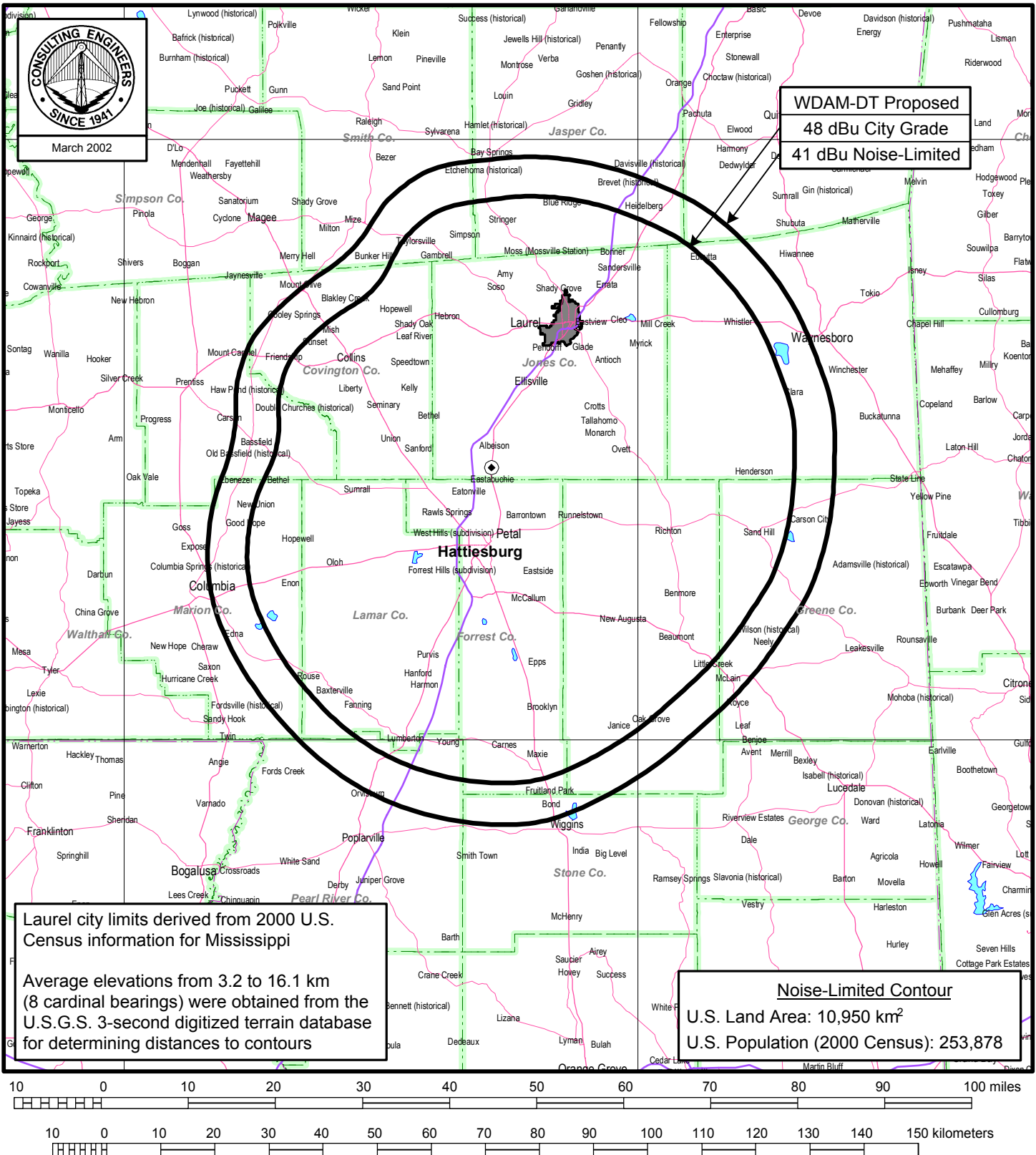
Outer Contour: WDAM-DT Allotment

AZIMUTHAL PLANE PATTERNS (dBk)

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

Figure 3



PREDICTED F(50,90) COVERAGE CONTOURS

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du Treil, Lundin & Rackley, Inc Sarasota, Florida