

ENGINEERING EXHIBIT
REQUEST FOR SPECIAL TEMPORARY
AUTHORITY (STA)
DIGITAL TELEVISION STATION WANE-DT
FORT WAYNE, INDIANA

October 26, 2005

CH. 31 68 kW (MAX-DA) 242 M

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This Engineering Statement was prepared on behalf of digital television (DTV) station WANE-DT (Facility ID 39270) and concerns a request for Special Temporary Authority (STA) for WANE-DT on channel 31 at Fort Wayne, Indiana.

Station WANE-DT was allotted a digital operation (BPRM-20000801AAA) on channel 31 with a non-directional effective radiated power (ERP) of 82 kilowatts and an antenna radiation center height above average terrain (HAAT) of 253 meters. WANE-DT is currently authorized by special temporary authority (BDSTA-20030905ACM) to operate at its allotment site with a maximum directional ERP of 40 kilowatts, an HAAT of 88 meters, and employing a Dielectric TLP-8B antenna.

This STA request proposes to modify the current STA facility by increasing the proposed ERP to 68 kilowatts and increasing the antenna HAAT to 242 meters. No other changes are proposed. The details and specifications of the proposed WANE-DT STA operation are summarized in the table below:

Parameter	Proposed
Call Sign	WANE-DT
Channel	31
City of License	Fort Wayne, IN

Parameter	Proposed
Facility ID	39270
FCC ASRN	1027622
Geographic coordinates (NAD27)	41-05-38 N 85-10-48 W
Site elevation	247 m AMSL
Overall structure height AGL(with all appurtenances)	255.7 m
Antenna radiation center height AGL	235 m
Antenna radiation center height AMSL	482 m
Antenna radiation center HAAT	242 m
Antenna, make and model	TLP-8B
Antenna type	Directional, horizontally-polarized
Antenna FCC ID No.	64167
Major lobe orientation	110°
Electrical beam tilt	1°
Mechanical beam tilt	Not Applicable
Maximum horizontally-polarized ERP	68 kW (18.33 dBk)
Maximum vertically-polarized ERP	Not Applicable

There will be no change in the overall height of the existing antenna structure as a result of the proposed STA operation.

The 41 dBu, f(50,90) noise limited contour of the proposed WANE-DT STA facility (68 kW-DA), 242 m) is within the predicted 41 dBu, f(50,90) noise limited contour of the WANE-DT allotment (BPRM-20000801AAA). Figure 1 is a map

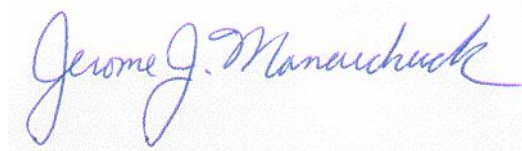
illustrating the predicted coverage contours for the proposed WANE-DT STA operation and the WANE-DT allotment facility. Also, as indicated in Figure 1, the predicted 48 dBu, f(50,90) contour for the proposed WANE-DT STA operation fully encompasses the city limits of Fort Wayne, Indiana.

There are other broadcast and non-broadcast facilities located in proximity to the proposed STA facility. No adverse electromagnetic impact is expected with respect to these facilities. However, the applicant recognizes its responsibility to correct objectionable electromagnetic interference problems that result from its proposed STA operation.

The STA proposal is categorically excluded from environmental processing under Section 1.1306 (note 1) as an existing tower will be employed; and the proposal will be less than 5% of the radio frequency (RF) maximum permissible exposure (MPE) limit of Section 1.1310 of the FCC Rules for the Channel 31 frequency band. Calculation of RF energy from the proposed STA facility was made at a location 2 meters (6.5 feet) above the base of the tower under the procedures of OET Bulletin No. 65. For Channel 31 the MPE for general population / uncontrolled environments is 0.38 mW/cm^2 . Using a conservative relative field of 0.25 (see Sheet 2 of Figure 2) for the downward radiation for the antenna system, the calculated RF exposure at 2 meters above ground is approximately 0.0026 mW/cm^2 , or less than 5% of the MPE.

Access to the transmitting site will be restricted and appropriately marked with warning signs. As this will be a multi-user site, an agreement will control site access. 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.



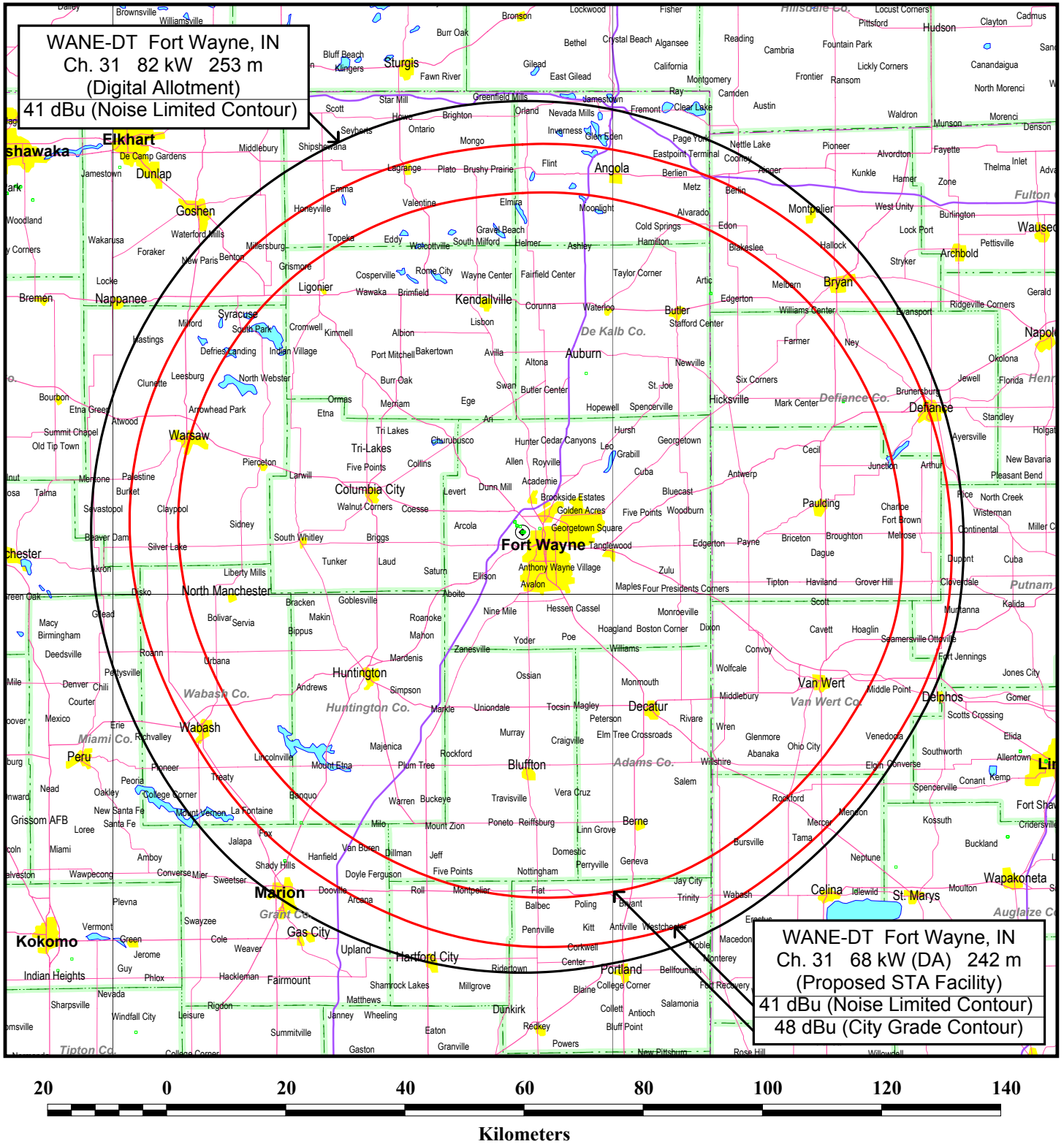
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October 26, 2005

Figure 1



FCC PREDICTED COVERAGE CONTOURS

DTV STATION WANE-DT
FORT WAYNE, INDIANA
CH 31 68 KW (DA) 242 M

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

Dielectric

Date
Call Letters
Location
Customer
Antenna Type

25 Oct 2005
WANE-DT
Fort Wayne
LIN
TLP-8B

Channel **31**

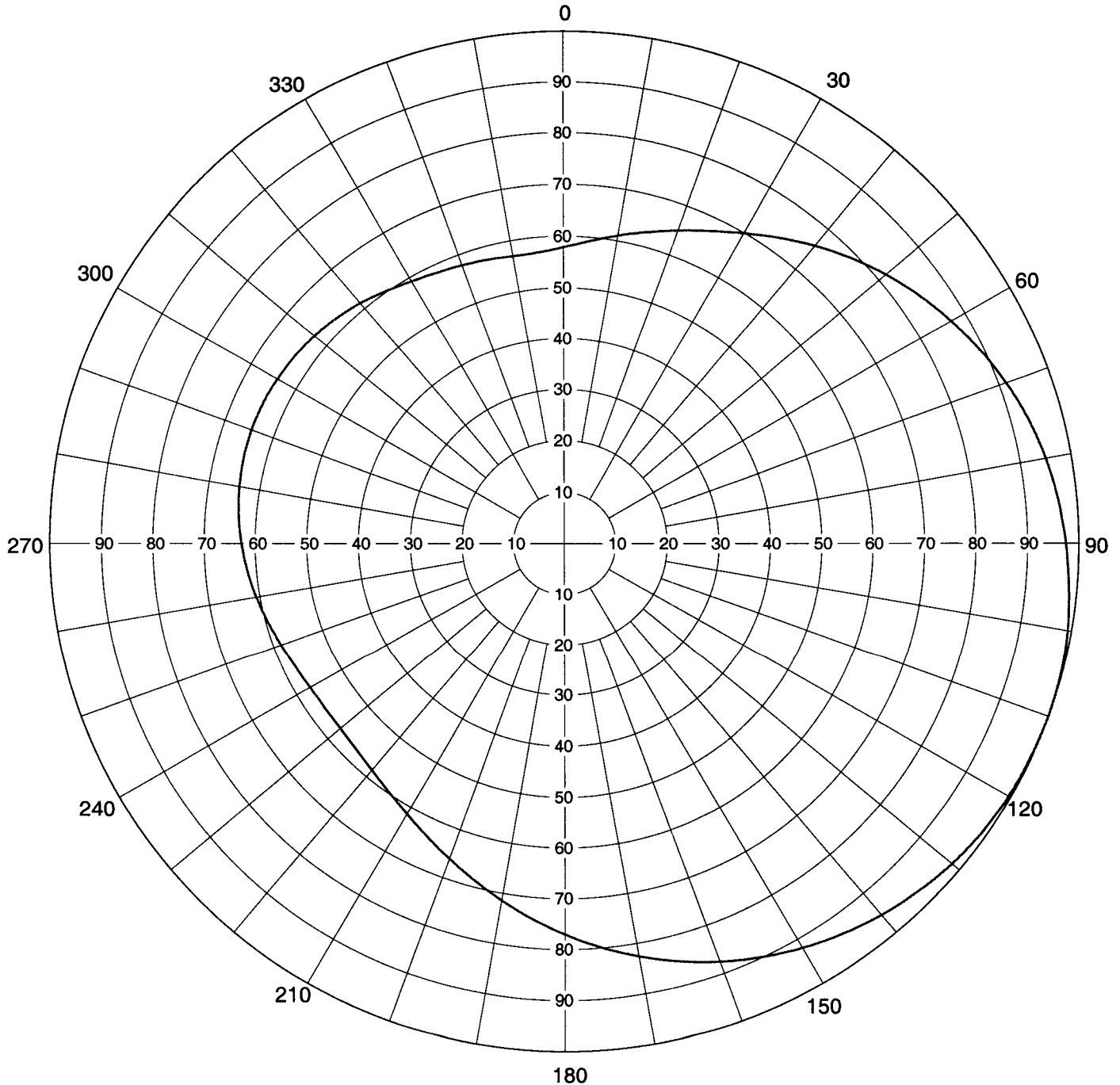
AZIMUTH PATTERN

Gain
Calculated / Measured

1.70 (2.30 dB)
Calculated

Frequency
Drawing #

575 MHz
TLP-B

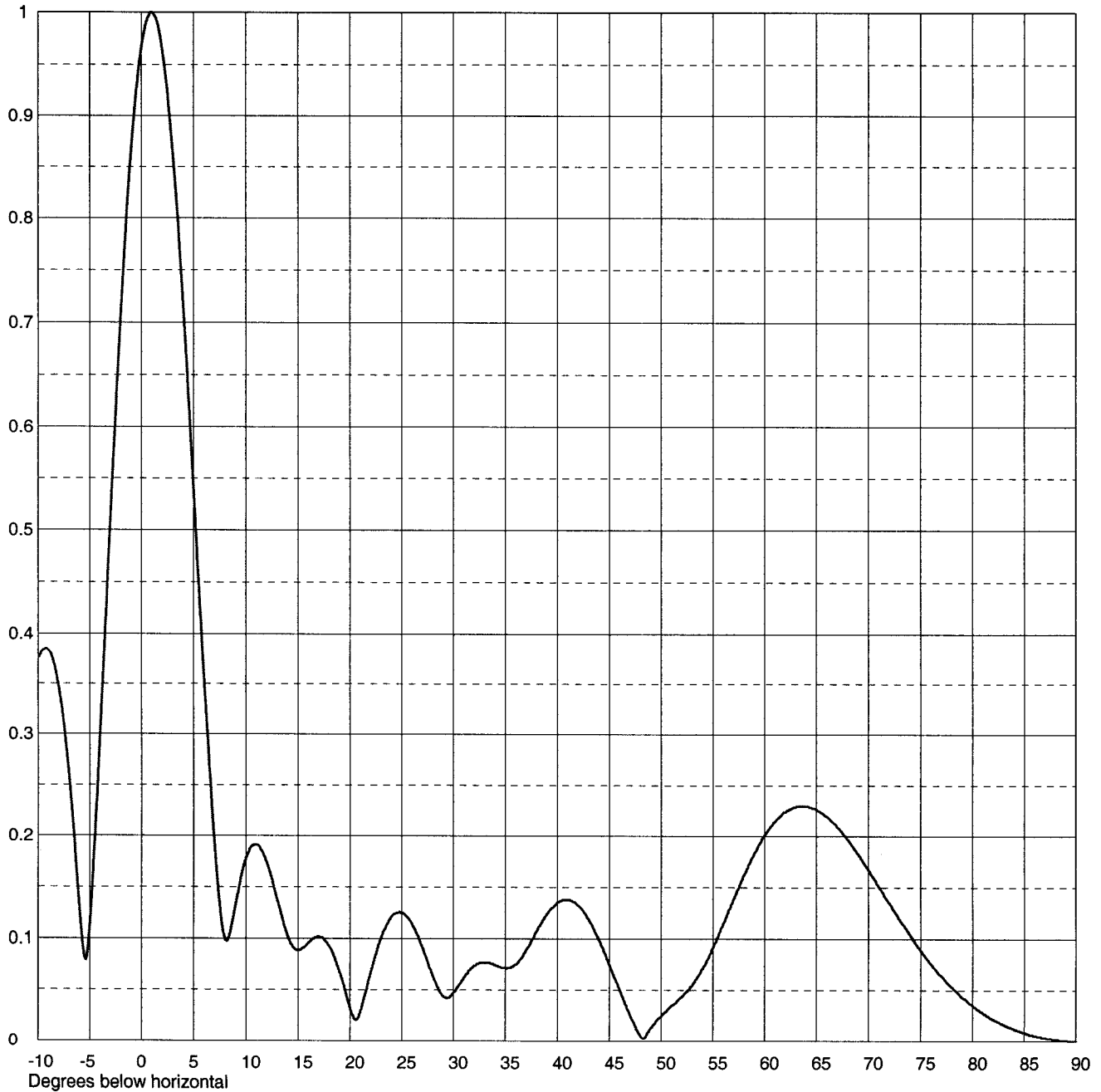


Remarks:

Date	25 Oct 2005	Channel	31
Call Letters	WANE-DT		
Location	Fort Wayne		
Customer	LIN		
Antenna Type	TLP-8B		

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	575.00 MHz
Calculated / Measured	Calculated	Drawing #	08L080100-90



Remarks: