

TECHNICAL EXHIBIT
APPLICATION FOR MODIFICATION OF
DIGITAL CONSTRUCTION PERMIT
CLASS A STATION WJTS-LP (FACILITY ID 168419)
JASPER, INDIANA
CH 18 15 KW

Technical Narrative

This Technical Exhibit supports an application for modification of the WJTS-LP authorized digital companion operation. Class A Station WJTS-LP is licensed to operate on analog channel 27 with a non-directional antenna maximum (visual) effective radiated power (ERP) of 15.2 kW and an antenna height above mean sea level (RCAMSL) of 222 meters (BLTTL-19930211JD). WJTS-LP is also authorized by construction permit (BDCCDTL-20061026ADK) to operate on digital channel 18 with a non-directional ERP of 15 kilowatts and an RCAMSL of 303.2 meters. This application proposes to modify the current authorized construction permit by increasing the antenna RCAMSL from 303.2 meters to 307.3 meters. No other changes are proposed.

Proposed Facilities

This application proposes digital operation on channel (18), at the following site coordinates, 38-22-53 N, 86-52-26 W (NAD 27). An ERI ALP12L4-HSO non-directional antenna, with a maximum ERP of 15 kW and antenna RCAMSL of 307.3 meters is proposed. The existing 128 meter tower is assigned antenna structure registration number 1225462.

Figure 1 is a map showing the authorized 51 dBu (analog) and proposed 51 dBu (digital) coverage contours. As can be seen on the map, the proposed 51 dBu contour completely encompasses the authorized 51 dBu contour.

Allocation Considerations

A study has been conducted to assure that the proposal will not create prohibited interference with other licensed, authorized or pending analog or digital TV, LPTV/translator and Class A TV stations. Using the procedures outlined in the FCC's OET-69 Bulletin, a 1-kilometer cell size resolution and 1990 U.S. Census, the proposal complies with the current FCC policy (i.e., less than 0.5% new interference caused to other pertinent assignments). If necessary, a waiver of the FCC rules is respectfully requested based on use of the procedures outlined in the FCC's OET-69 Bulletin.

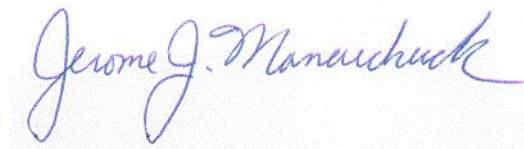
The applicant understands that it must correct and/or eliminate prohibited interference that may result from its proposed operation.

Radiofrequency Electromagnetic Field Exposure

The proposed WJTS-LD facility was 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 digital antenna is located 118.4 meters above ground level. The proposed maximum digital ERP is 15 kW. Based on a relative field factor of 0.2 (for angles below 60 degrees downward), and a maximum effective radiated power of 15 kilowatts, the calculated power density at 2 meters above ground at the tower base will be 0.0015 mW/cm^2 , which is 0.45% of the FCC's recommended limit of 0.33 mW/cm^2 for channel 18, applicable to general population/uncontrolled exposure areas.

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.

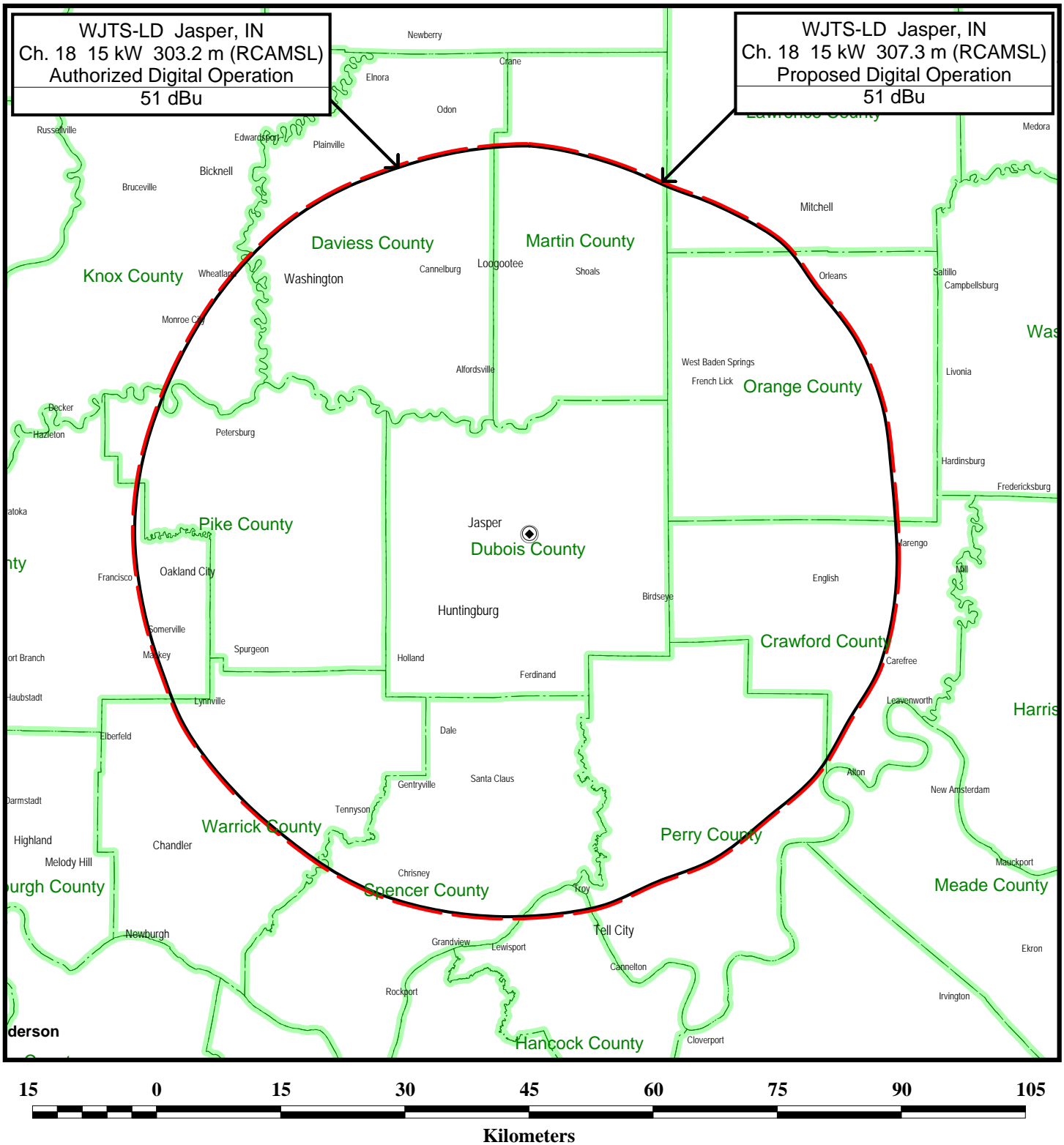


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Figure 1



FCC PREDICTED COVERAGE CONTOURS

CLASS A STATION WJTS-LD
JASPER, INDIANA
CH 18 15 KW 307.3 M (RCAMSL)

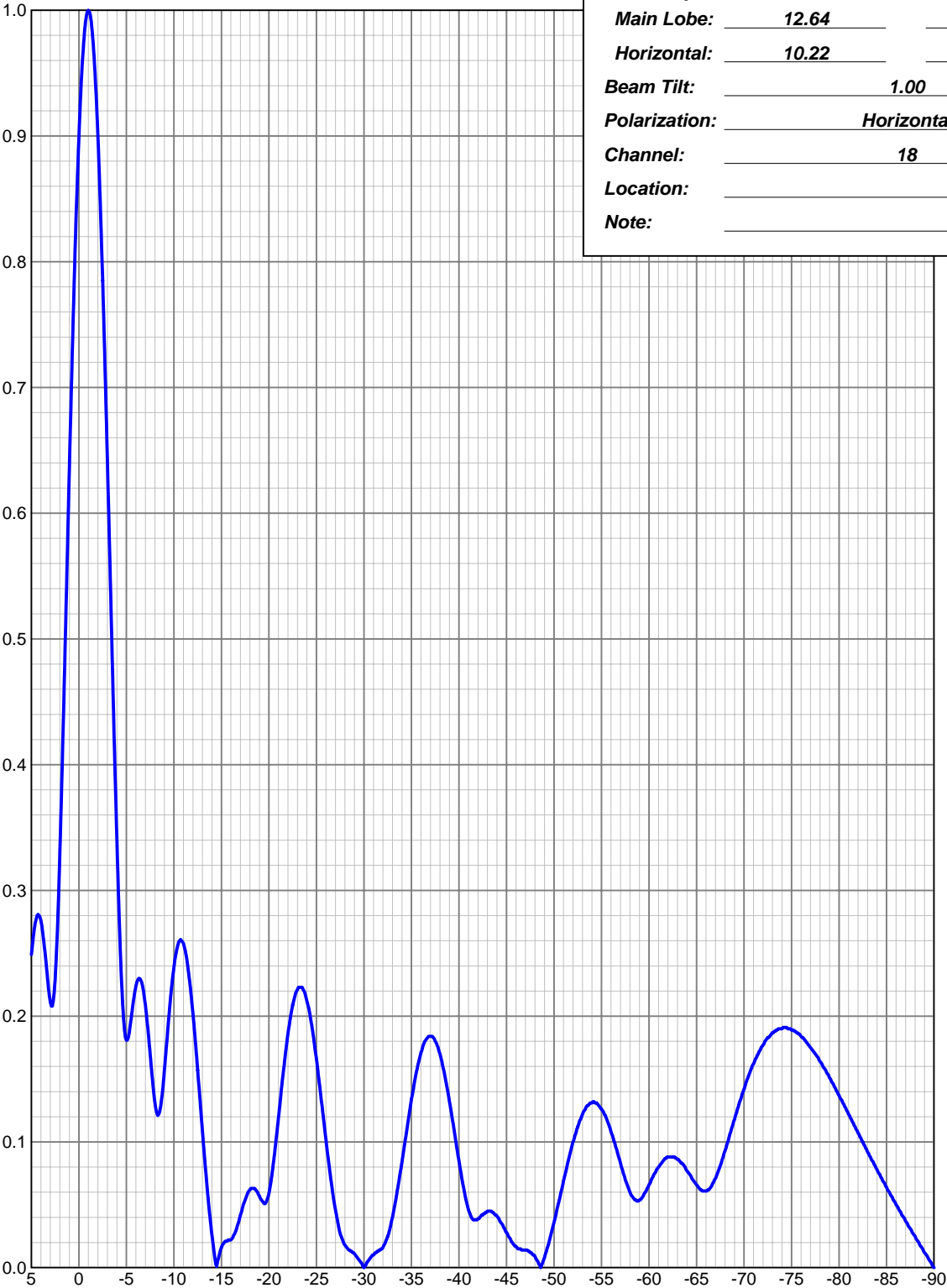
du Treil, Lundin & Rackley, Inc. Sarasota, FL



ELEVATION PATTERN

Type:	ALP12L4	
Directivity:	Numeric	dBd
Main Lobe:	12.64	11.02
Horizontal:	10.22	10.09
Beam Tilt:	1.00	
Polarization:	Horizontal	
Channel:	18	
Location:		
Note:		

Relative Field



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