Federal Communications Commission

LOW POWER TELEVISION BROADCAST STATION CONSTRUCTION PERMIT

Licensee/Permittee

CTB SPECTRUM SERVICES TWO, LLC 1 Broadcast Way Cadillac, MI, 49601

Call Sign File Number W19EZ-D 0000143600

Facility ID: 184807

NTSC TSID: Digital TSID:

This Permit Modifies License File No. B

BNPDTL-20100223AAK

Grant Date	Expiration I	
04/19/2021	01/10/2022	
Hours of Operation		H
Unlimited		
Station Location	Frequency (MHz)	Station Channel
City HOUGHTON LAKE	500.0 - 506.0	19
State MI	0.31	

Antenna Structure Registration Number 1002422		
Transmitter Type Accepted. See Sections 74.750 of the Commission's Rules.	Transmitter Output Power(kW) As required to achieve authorized ERP.	
Antenna Coordinates Latitude 44-8-12.0 N Longitude 85-20-33.0 W	Antenna Type Directional	
Description of Antenna Make ERI Model ALP-MRE	Major Lobe Directions 250.0	

Antenna Beam Tilt (Degrees Electrical)	Antenna Beam Tilt (Degrees Mechanical @ Degrees	
0.75	Azimuth)	
	Not Applicable	
Maximum Effective Radiated Power (Average)		
15.00 kW		
11.76 DBK		
Height of Radiated Center Above Ground (Meters)	Height of Radiated Center Above Mean Sea Level	
109.7	(Meters)	
	629.2	
Out-Of-Channel Emission Mask	Overall Height of Antenna Structure Above Ground	
Full Service	(Meters)	
	See the registration for this antenna structure.	

Waivers/Special Conditions

- This authorization is subject to the condition that low power television is a secondary service, and that low
 power television and television translator stations must not cause interference to the reception of existing or
 future full service television stations on either allotted NTSC or DTV channels, and must accept interference
 from such stations.
- This authorization is subject to the condition that any future modification will not result in a relocation within 121 km of the top 100 markets as described in Public Notice announcing commencement of Rural First-come, First-served Digital Licensing released June 29, 2009, Report # DA 09-1487.

Subject to the provisions of the Communications Act of 1934, as amended, subsequent acts and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions set forth in this permit, the permittee is hereby authorized to construct the radio transmitting apparatus herein described. Installation and adjustment of equipment not specifically set forth herein shall be in accordance with representations contained in the permittee's application for construction permit except for such modifications as are presently permitted, without application, by the Commission's Rules.

Equipment and program tests shall be conducted only pursuant to Sections 73.1610 and 73.1620 of the Commission's Rules.