



**Exhibit 13-1 Contour Study for channel 258FX**  
(Grand Rapids, MN Proposal)  
8/15/2013

Channel: 258 (99.5 MHz)  
Antenna: Non-directional Circularly Polarized  
ERP: 0.019 kW (H & V)  
RCAMSL: 505 m

North Lat: 47° 16' 48"  
West Lon: 93° 26' 59"  
FID: 142037

HAAT (Max of 12 evenly spaced radials:) 114.6 m

60 dBu F(50,50): 7.3 km; 40 dBu F(50,10): 24.5 km; 54 dBu F(50,10): 10.3 km; 100 dBu F(50,10): 0.31 km

Call	Channel	Class	Service	Frequency	Status	City	State	Country	File Number
Docket	FacilityID	ERP	DA?	HAAT	RCAMSL	RCAGL	Latitude	Longitude	
ASRN	Dist(km)	Dist(mi)	Azimuth	Licensee/Permittee	Req Dist	Clear By			
<a href="#">WUSZ</a>	260	C1	FM	99.9 MHz	LIC	VIRGINIA	MN	US	BLH-20051102AAS
<a href="#">-</a>	<a href="#">70302</a>			100. kW		162. m	595.6 m	147.5 m	N 47 22 24.00 W 93 0 48
<a href="#">1028462</a>	34.6 km	21.49 mi	72.33°	MIDWEST COMMUNICATIONS, INC.					
Dist to 60 dbu F(50,50) Contour:	60.0 km								
					60.3 km				-25.7 <sup>1</sup>

<sup>1</sup> SEE Exhibit 13-3 "Waiver Request for 2<sup>nd</sup> Adjacent Spacing."