

Channel Study

REFERENCE		CH# 281D - 104.1 MHz, Pwr= 0.25 kW DA, HAAT= 92.0 M, COR= 271 M								DISPLAY DATES	
41 42 52.0 N.		Average Protected F(50-50)= 12.4 km								DATA 12-21-10	
83 30 22.0 W.		Standard Directional								SEARCH 12-22-10	
CH CITY	CALL	TYPE	ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
281D Harbor View	W281AL	LIC	C OH	0.0 0.0	0.0 BLFT20070619ABE	41 42 52.0 83 30 22.0	0.019	21.6 269	6.5 Educational Media Foundati	-23.7*	-13.4*
284B Toledo	WIOT	LIC	CX OH	124.4 304.5	8.1 BMLH20020611AAX	41 40 23.0 83 25 31.0	50.000 165	6.3 345	67.4 Citicasters Licenses, Inc.	-0.3<	-59.4*<
282B Detroit	WOMC	LIC	CN MI	20.9 201.2	89.9 BLH19970512KI	42 28 10.0 83 06 54.0	190.000 110	92.8 306	73.4 Cbs Radio Inc. Of Michigan	-5.0*<	12.0
280A Adrian	WLEN	LIC	CN MI	297.9 117.6	45.1 BLH7244	41 54 11.0 83 59 13.0	3.000 91	39.3 325	25.8 Lenawee Broadcasting Compa	-3.1<	6.8
279B Pemberville	WCKY-FM	LIC	CX OH	161.2 341.4	67.5 BLH20081201AEL	41 08 20.0 83 14 45.0	50.000 131	5.9 364	64.8 Citicasters Licenses, Inc.	59.5	2.7
278B Detroit	WMUZ	LIC	CN MI	16.4 196.5	76.8 BLH19851223KG	42 22 40.0 83 14 32.0	50.000 142	6.0 336	65.2 Wmuz Radio, Inc.	68.8	11.6
228B1 Bowling Green	WRQN<	LIC	NCX OH	204.1 24.0	31.2 BLH20061002BGR	41 27 28.0 83 39 33.0	7.000 121	35.9 315	38.2 Cumulus Licensing Llc	11.5R	19.7M
281B Cleveland	WQAL	LIC	CX OH	105.2 286.4	153.1 BLH20050901AAM	41 20 28.0 81 44 24.0	12.000 293	127.8 574	66.9 Cbs Radio Stations Inc.	23.2	76.2
280A Windsor	CJBC-FM-1<	OPE	DCN ON	29.3 209.6	76.8 20060321CAN	42 18 59.0 83 02 58.0	6.000 74	21.8 258	20.9 21.5R	21.5R	55.3M
281B Grand Rapids	WVGR	LIC	DCX MI	302.8 121.4	196.9 BMLED20080306ABQ	42 39 17.0 85 31 38.0	96.000 221	130.5 469	64.6 Regents Of The University	58.2	92.2
280D Livonia	631238	APP	C MI	8.3 188.4	76.3 BNPFT20030313BDV	42 23 37.0 83 22 18.0	0.034	7.2 240	5.2 Educational Media Foundati	67.0	68.1

Terrain database is NGDC 30 SEC, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM
Contour distances are on direct line to and from reference station. Reference Zone = 1, Co to 3rd adjacent.
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E),
Beamtilt(Y,N,X)
"*"affixed to 'IN' or 'OUT' values = site inside protected contour.
< = Station meets FCC minimum distance spacing for its class.
< = Contour Overlap.

Compliance with C.F.R. 74.1204

The proposed FM Translator is located within the protected 60 dBu contour of third adjacent channel station WIOT, channel 284B, Toledo, OH.. The predicted F(50-50) field strength of WIOT at the proposed translator site is 95.7 dBu, (see Exhibit 13A-1). Therefore, the respective predicted interfering contour generated by the proposed FM Translator is 135.7 dBu. This interfering contour extends approximately 18.2 meters from the proposed transmit antenna, and the area of overlap does not reach the ground (the antenna will be mounted at the 89 meter level on a 92 meter tower).

To confirm the absence of population within the interference aperture, EMF has examined the attached topographic map (see Exhibit 13A-2), which indicates a lack of structures near the proposed tower, and therefore no structure which could be tall enough to enter the 18.2 meter interference aperture.

Therefore, EMF respectfully requests a waiver of C.F.R 74.1204 based on no population within the area of predicted interference.

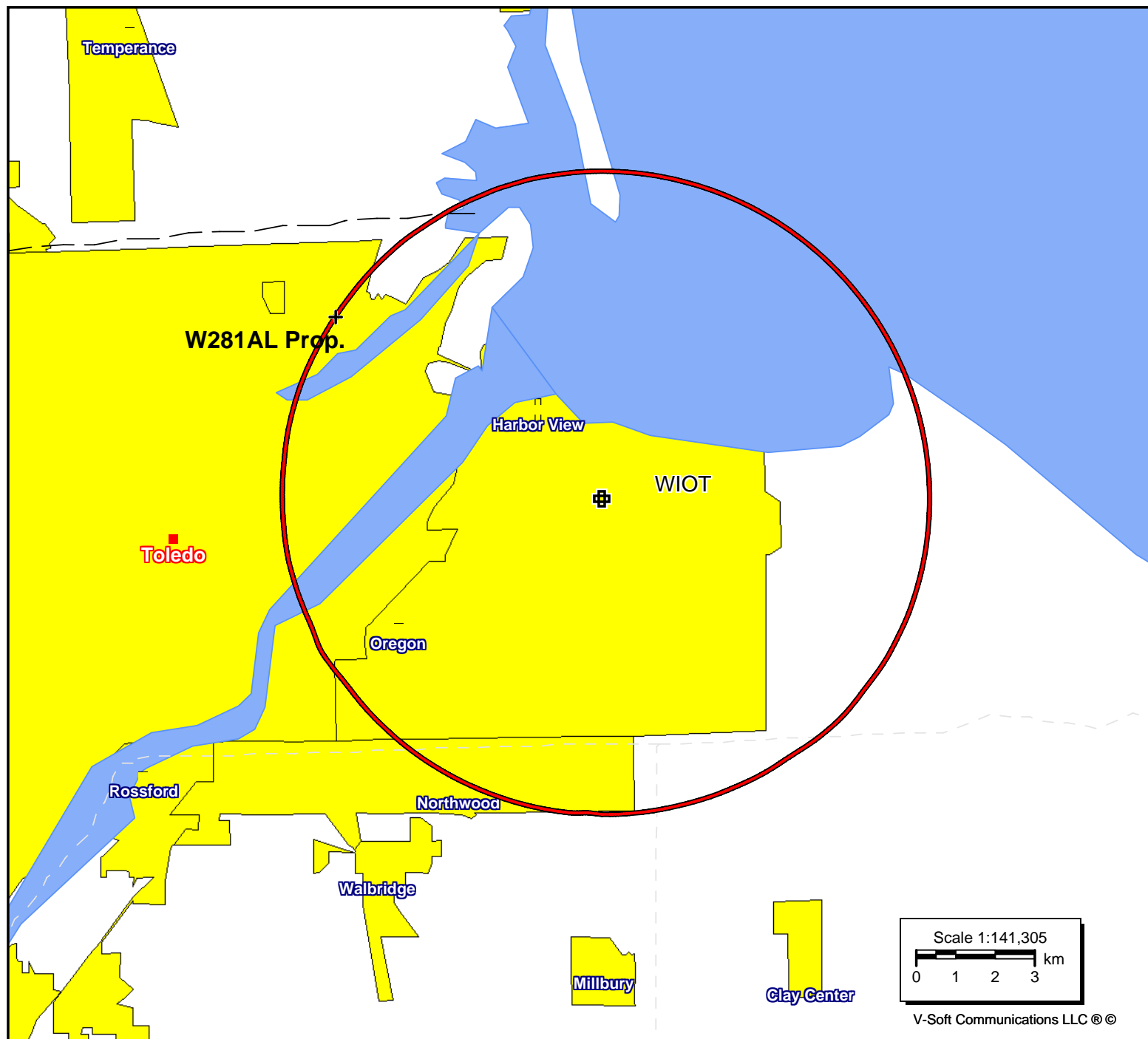
W281AL Prop.

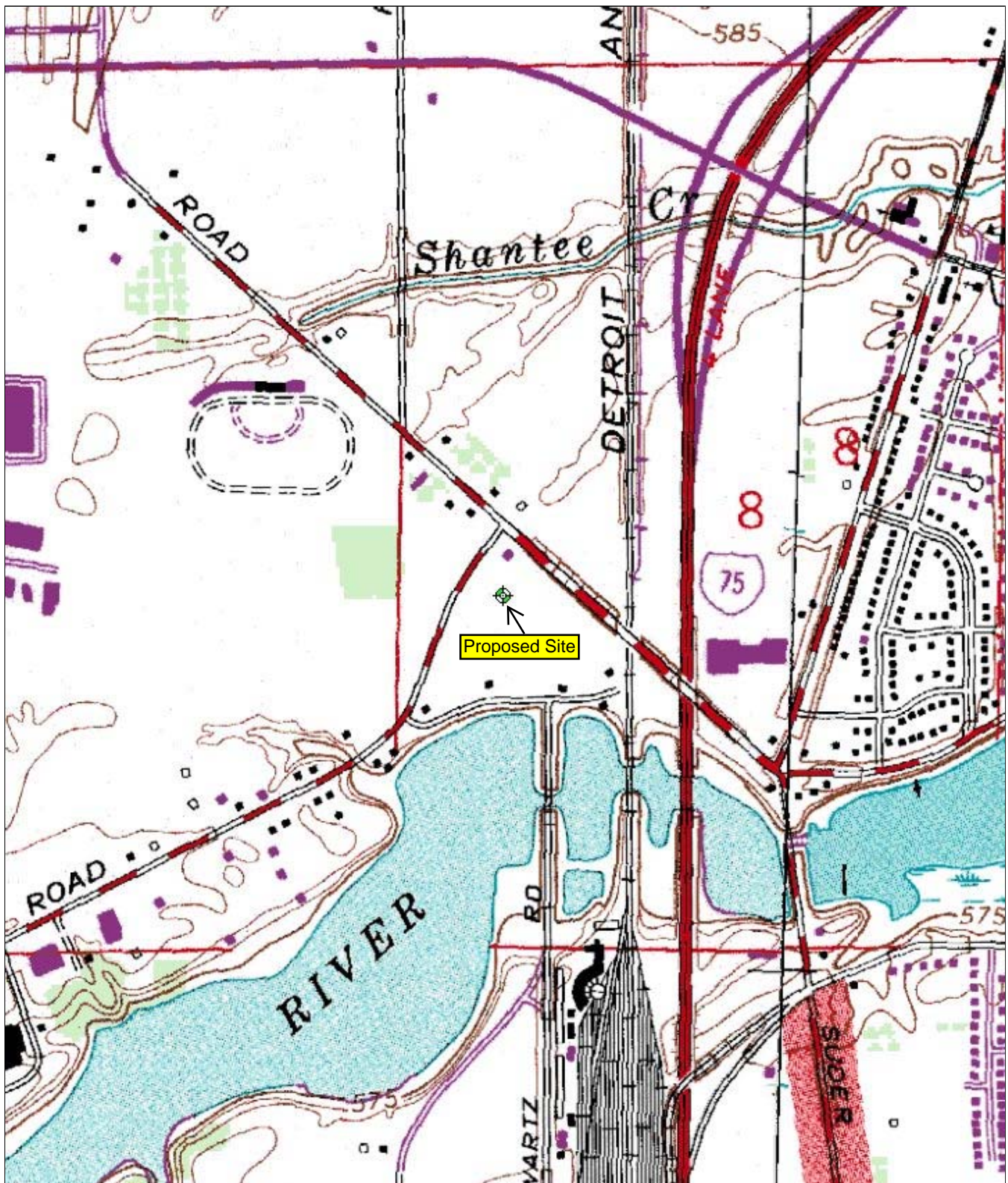
Latitude: 41-42-52 N
Longitude: 083-30-22 W
ERP: 0.25 kW
Channel: 281
Frequency: 104.1 MHz
AMSL Height: 271.0 m
Elevation: 182.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

WIOT

BMLH20020611AAX
Latitude: 41-40-23 N
Longitude: 083-25-31 W
ERP: 50.00 kW
Channel: 284
Frequency: 104.7 MHz
AMSL Height: 345.0 m
Elevation: 178.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

- WIOT (284)
■ W281AL Prop. (281)





Tower ID: 1207081

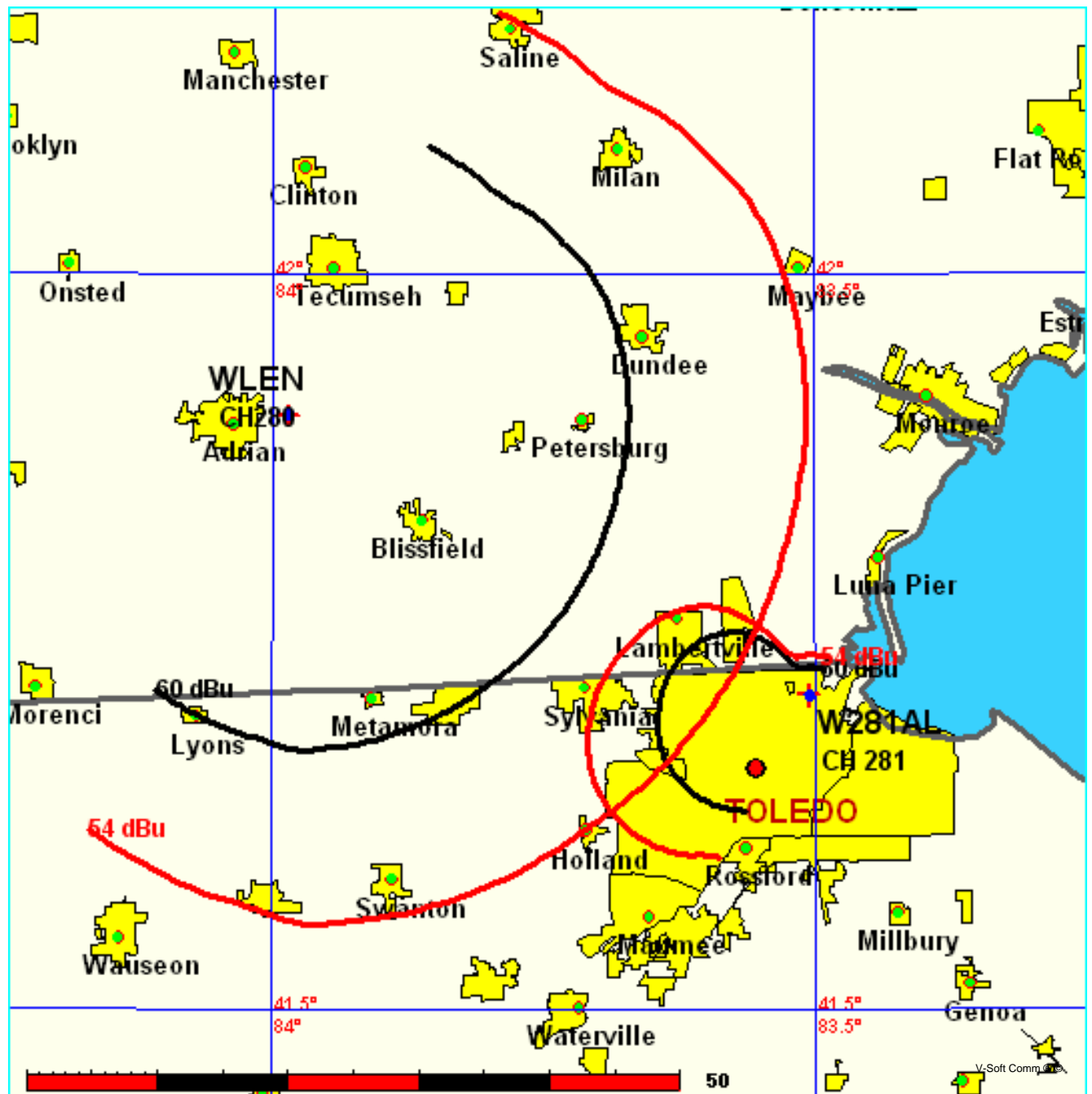
Coordinates (NAD27): 41-42-51.63 N, 083-30-22.44 W

Coordinates (NAD83): 41-42-51.80 N, 083-30-22.20 W

FMCommander Single Allocation Study - 12-22-2010 - NGDC 30 SEC
W281AL's Overlaps (In= -3.06 km, Out= 6.81 km)

W281AL CH 281 D DA
Lat= 41 42 52.0, Lng= 83 30 22.0
0.25 kW 92 M HAAT, 271 M COR
Prot.= 60 dBu, Intef.= 54 dBu

WLEN CH 280 A BLH7244
Lat= 41 54 11.0, Lng= 83 59 13.0
3.0 kW 91 M HAAT, 325 M COR
Prot.= 60 dBu, Intef.= 54 dBu



FMCommander Single Allocation Study - 12-22-2010 - NGDC 30 SEC
W281AL's Overlaps (In= 59.49 km, Out= 2.69 km)

W281AL CH 281 D DA
Lat= 41 42 52.0, Lng= 83 30 22.0
0.25 kW 92 M HAAT, 271 M COR
Prot.= 60 dBu, Intef.= 94 dBu

WCKY-FM CH 279 B BLH20081201AEL
Lat= 41 08 20.0, Lng= 83 14 45.0
50.0 kW 131 M HAAT, 364 M COR
Prot.= 54 dBu, Intef.= 100 dBu

