

**Channel Study**

REFERENCE		CH# 204A - 88.7 MHz, Pwr= 4 kW, HAAT= 66.1 M, COR= 485 M								DISPLAY DATES		
41 14 56.5 N.		Average Protected F(50-50)= 21.3 km								DATA 09-17-20		
79 36 01.1 W.		Omni-directional								SEARCH 09-25-20		
CH CITY	CALL	TYPE STATE	ANT	AZI. <--	DIST FILE #	LAT. LNG.	Pwr (kW) HAAT (M)	INT (km) COR (M)	PRO (km) LICENSEE	*IN* (Overlap in km)	*OUT*	
204D Butler	W204CR!	LIC	PA	211.4 31.2	48.75 BLFT20160405ABN	40 52 28.00 79 54 10.00	0.013	22.2 480	6.5 Family Life Ministries, In	0.6	-37.6*	
204D Pittsburgh	W204CT!	LIC D	PA	201.1 20.8	92.52 BLFT20180809AAJ	40 28 19.20 79 59 39.20	0.130	36.8 510	11.1 Educational Media Foundati	28.5	-0.8	
206A Tidioute	WGIP/WCGT	APP	PA	31.5 211.6	25.14 0000116808	41 26 30.70 79 26 34.10	2.300 129	2.2 569	24.2 Family Life Ministries, In	8.4	-0.6	
202A Oil City	WQHE	LIC	PA	346.8 166.8	33.58 BLED20130104ABM	41 32 35.40 79 41 32.00	3.600 105	2.9 545	29.8 Holy Family Communications	12.0	1.8	
205B Johnstown	WFRJ	LIC D	PA	151.7 332.1	110.57 BMLED20130530AMH	40 22 17.30 78 58 55.10	5.500 370	81.4 897	54.1 Family Stations, Inc.	2.7	16.4	
205A New Wilmington	WWNW	LIC D	PA	256.3 75.9	63.67 BLED20080915AEH	41 06 41.20 80 20 20.20	4.000 33	10.4 382	7.3 Westminster College Board	26.3	15.6	
201A Slippery Rock	WSRU	LIC	PA	240.8 60.5	42.48 BLED19910415KA	41 03 43.20 80 02 34.20	0.100 24	0.7 413	5.6 Slippery Rock Student Gove	16.6	34.6	
257B1 Franklin	WHMJ«	LIC	PA	307.9 127.7	34.29 BLH19891121KC	41 26 16.20 79 55 28.20	7.300 183	30.5 598	20.7 Fm Radio Licenses, LLC	11.5R	22.8M	
203B Youngstown	WYSU	LIC D	OH	256.6 75.9	90.05 BLED20101105AIJ	41 03 23.40 80 38 43.00	50.000 115	36.9 437	24.2 Youngstown State Universit	26.2	23.7	
06 1C Altoona	WKBS-TV«	LI	CY PA	127.5 308.2	123.44 0000084211	39 22 49.30 81 11 35.40	3.100 305	29.4 828	68.3	97.7R	25.8M	
205A Edinboro	WFSE	LIC	PA	325.7 145.3	84.74 BMLED20100601AHV	41 52 38.20 80 10 38.20	3.000 91	33.3 473	20.3 Edinboro University Of Pen	27.1	32.7	
206A Tidioute	WCGT!	LIC	PA	18.4 198.5	50.88 BLED20121214ABR	41 40 59.20 79 24 24.10	0.100 -126	351	---Reference--- Family Life Ministries, In			
207B Pittsburgh	WQED-FM	LIC	PA	199.0 18.8	94.35 BLED20010209AAG	40 26 46.20 79 57 50.20	28.000 199	5.8 505	51.8 Wqed Multimedia	61.3	39.9	
201A Greenville	WXTC	LIC	PA	286.0 105.5	67.65 BLED20130118ABI	41 24 51.10 80 22 49.20	1.600 -2	1.6 345	11.4 Thiel College	41.3	54.4	
201B1 Ridgway	WRQV	LIC D	PA	89.8 270.5	79.67 BLED20110914AAG	41 14 49.20 78 38 50.00	2.100 249	2.7 780	36.1 Invisible Allies Ministrie	54.5	41.3	
203A Youngsville	WYVL	LIC D	PA	21.1 201.3	77.88 BLED20151202EYN	41 54 07.20 79 15 40.10	2.500 130	22.8 612	12.6 Calvary Chapel Of Russell	43.9	41.6	
6 -- Altoona	WKBS-TV-A«	CHA	Y PA	127.5 308.2	123.44 DTVBL13929	39 22 49.30 81 11 35.40	0.579 305	29.4 828	52.1	81.5R	41.9M	
06 1E Cambridge	WOUC-TV«	LI	DEN OH	228.5 47.4	191.83 0000068363	39 22 49.30 81 11 35.40	7.110 338	30.1 655	69.8	100.0R	91.9M	
6 -- Cambridge	WOUC-TV-A«	CHA D	Y OH	228.5 47.4	191.83 DTVBL50141	39 22 49.30 81 11 35.40	1.720 385	30.1 699	50.4	80.6R	111.3M	
06Z-- Cleveland	WLFM-LD«	LI	N OH	275.5 94.1	176.09 BLTVL-20120613AAZ	39 22 49.30 81 11 35.40	3.000	14.6 506	33.3	47.9R	128.2M	

06Z-- WLFM-LD«

STA	HN	275.5	176.09	39	22	49.30	0.003	14.6	5.7	20.3R	155.8M
Cleveland	OH	94.1	0000068414	81	11	35.40		506			

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Terrain database is GLOBE 30 Sec, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM

In & Out distances between contours are shown at closest points. Reference Zone= - Zone 1, Co to 3rd adjacent.

All separation margins (if shown) include rounding. Call signs with exclamation marks need not be protected.

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 restricted contour.

« = Station meets FCC minimum distance spacing for its class.

Reference station has protected zone issue: Canada

Family Life Ministries, Inc.

FMCommander Single Allocation Study - 10-01-2020 - GLOBE 30 Sec  
WCGT's Overlaps (In= 11.95 km, Out= 1.81 km)

WCGT CH 204 A

Lat= 41 14 56.50, Lng= 79 36 01.10

4.0 kW 66.1 m HAAT, 485 m COR

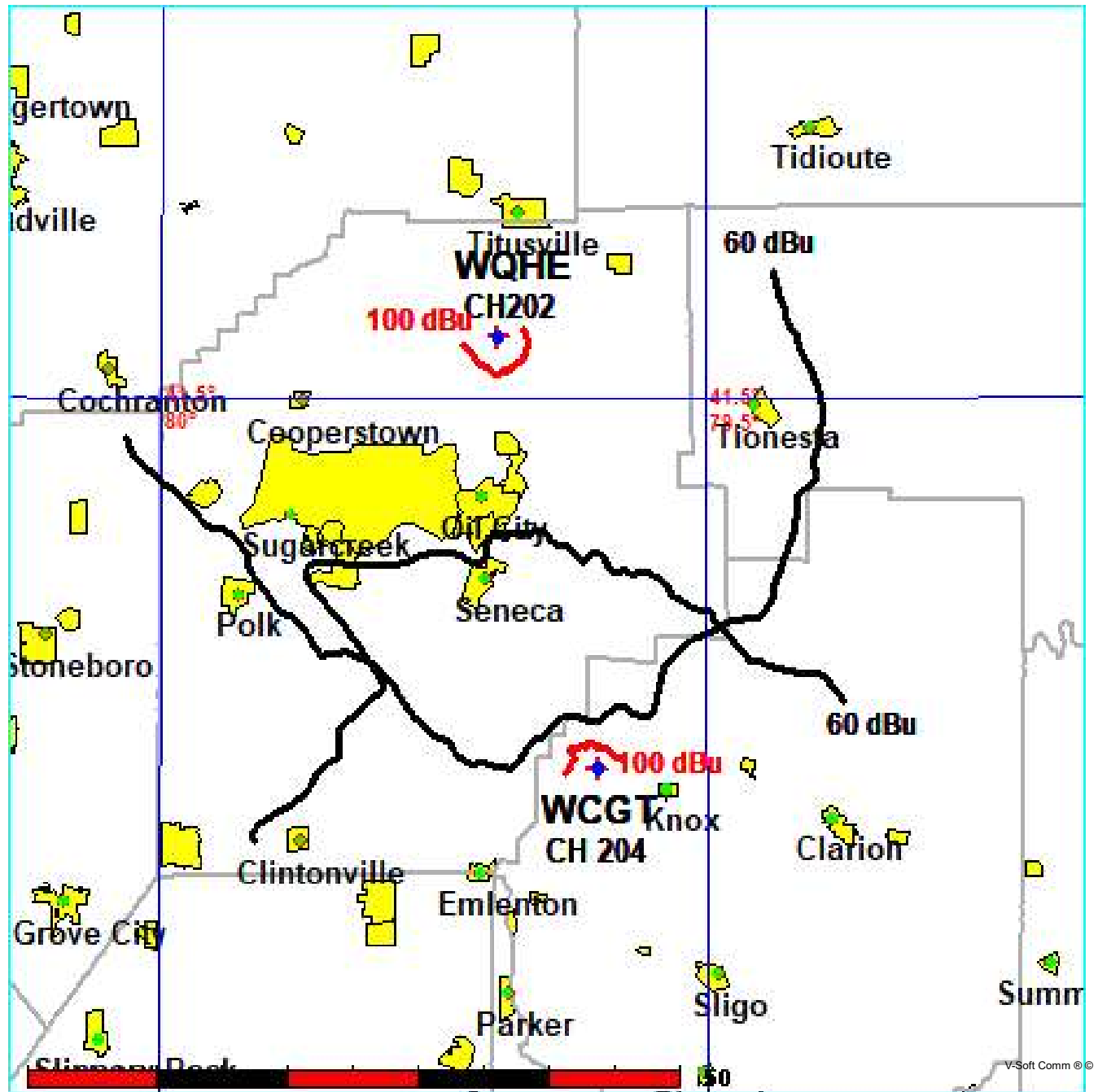
Prot.= 60 dBu, Intef.= 100 dBu

WQHE CH 202 A BLED20130104ABM

Lat= 41 32 35.40, Lng= 79 41 32.00

3.6 kW 105.1 m HAAT, 544.7 m COR

Prot.= 60 dBu, Intef.= 100 dBu



Family Life Ministries, Inc.

FMCommander Single Allocation Study - 10-01-2020 - GLOBE 30 Sec  
WCGT's Overlaps (In= 2.69 km, Out= 16.43 km)

WCGT CH 204 A

Lat= 41 14 56.50, Lng= 79 36 01.10

4.0 kW 66.1 m HAAT, 485 m COR

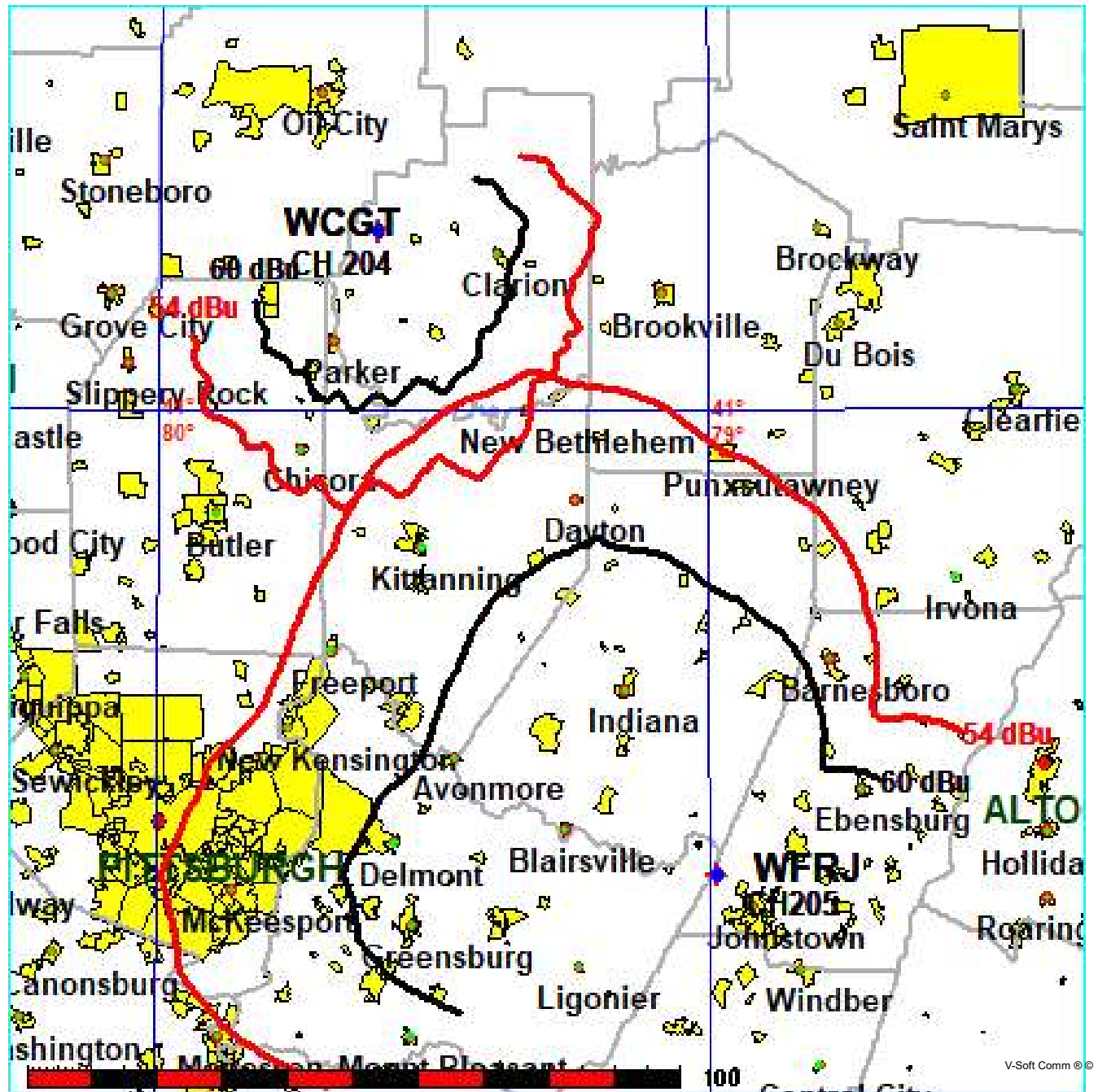
Prot.= 60 dBu, Intef.= 54 dBu

WFRJ CH 205 B DA BMLED20130530AMH

Lat= 40 22 17.30, Lng= 78 58 55.10

5.5 kW 370 m HAAT, 897 m COR

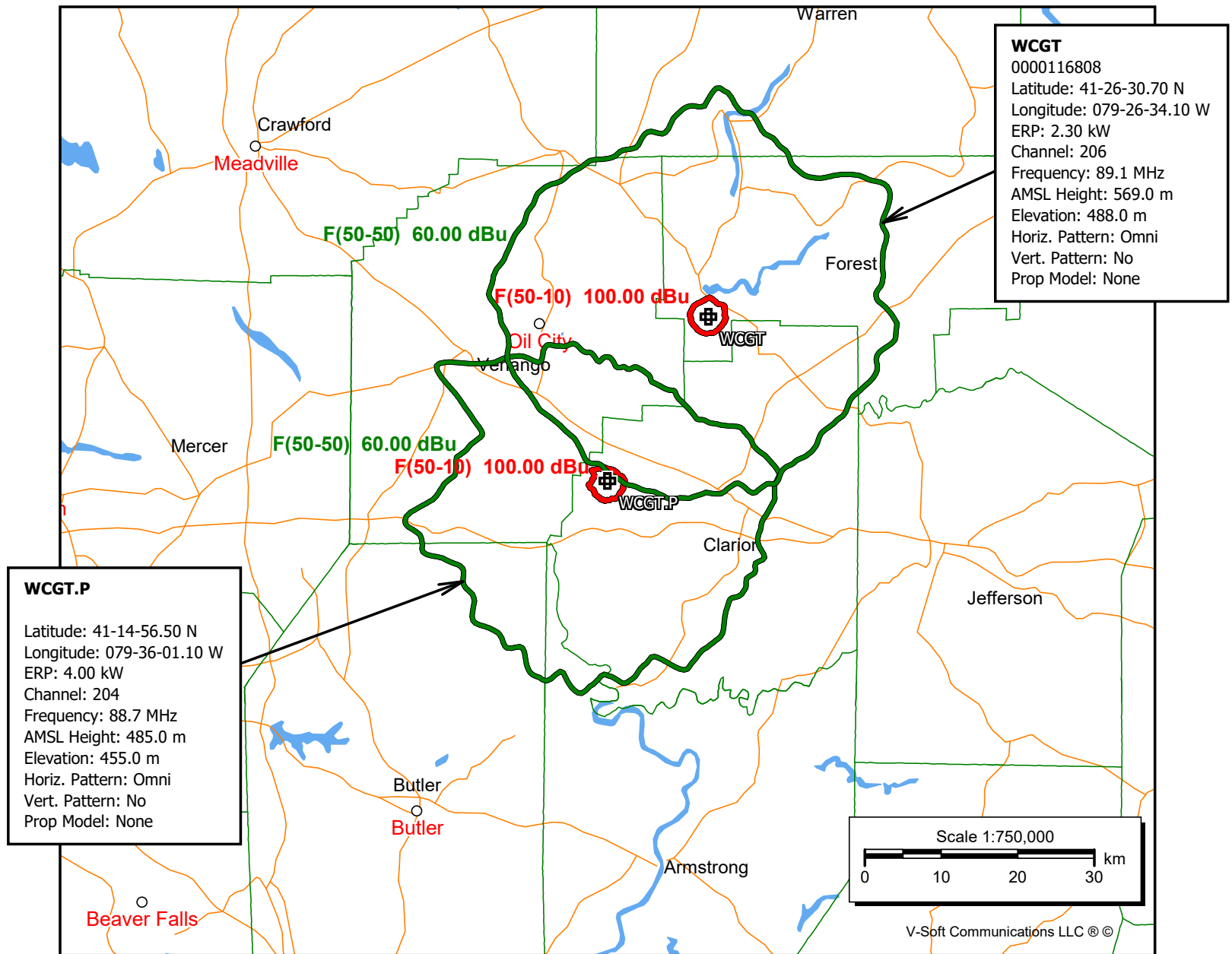
Prot.= 60 dBu, Intef.= 54 dBu





## Mutually Exclusive Contours

Exhibit 2



Overlap Population Report  
WCGT.P (204) / Clintonville, PA  
Overlap Area Type: Intersection

Areas Included:  
WCGT.P (204): FCC F(50-50) 60.00 dBu (FCC HAAT)  
PGON: Clintonville, PA

Population Database: 2010 US Census (PL)

Total Population: 508  
Overlap Area: 2.83 sq. km (Area determined using 0.007 km cells)

Area Description	Total Population	Total Area [sq. km]	Percent Population	Percent Area
WCGT.P (204): FCC F(50-50) 60	41,158	1,453	1.2 %	0.2 %
PGON: Clintonville, PA	508	2.83	100.0 %	100.0 %

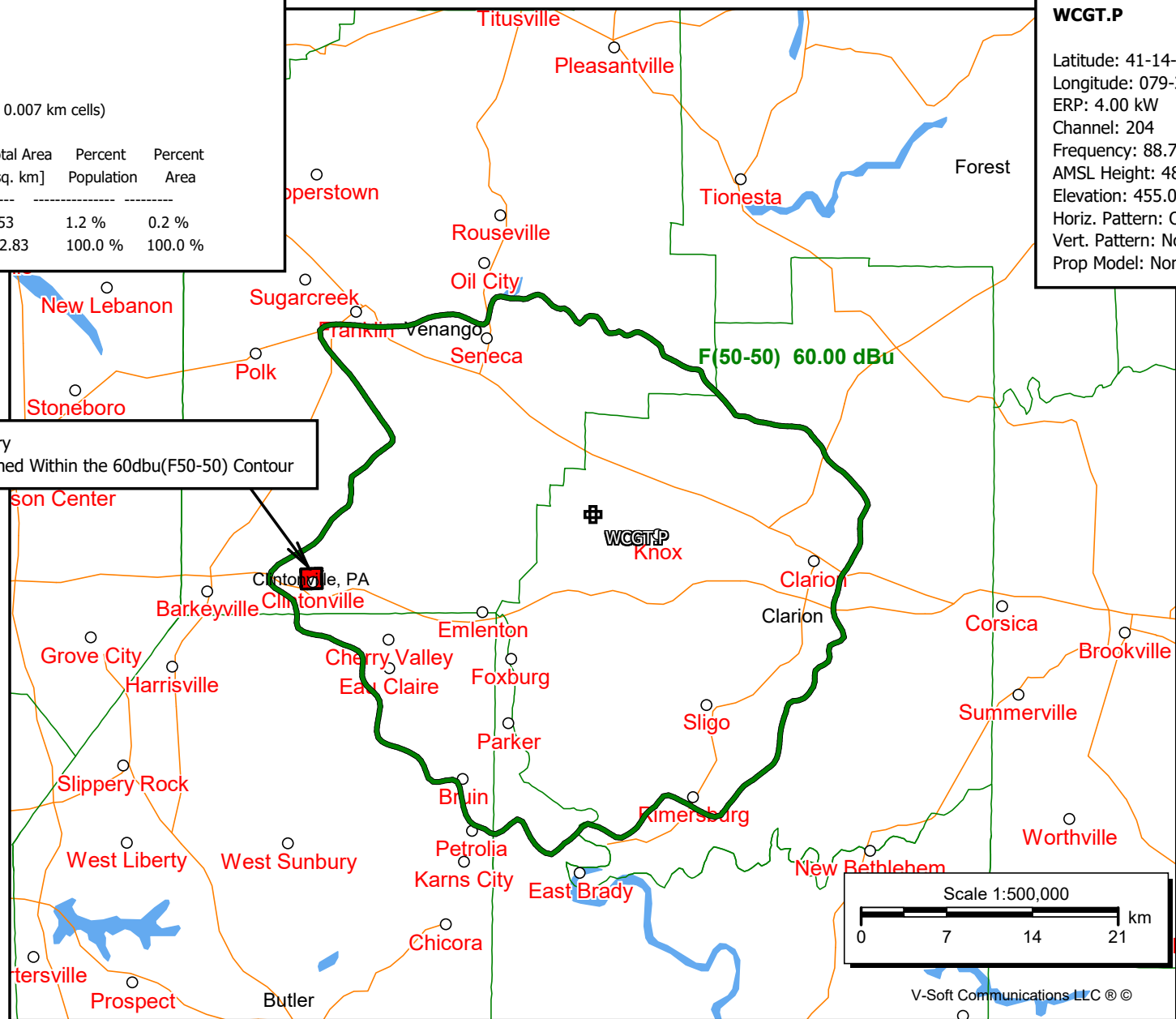
## Proposed Community of License Coverage - Clintonville, PA

Exhibit 3

### WCGT.P

Latitude: 41-14-56.50 N  
Longitude: 079-36-01.10 W  
ERP: 4.00 kW  
Channel: 204  
Frequency: 88.7 MHz  
AMSL Height: 485.0 m  
Elevation: 455.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

Community of License Corporate Boundary  
Note - 100% of the Community is Contained Within the 60dbu(F50-50) Contour



### **Compliance with International Requirements**

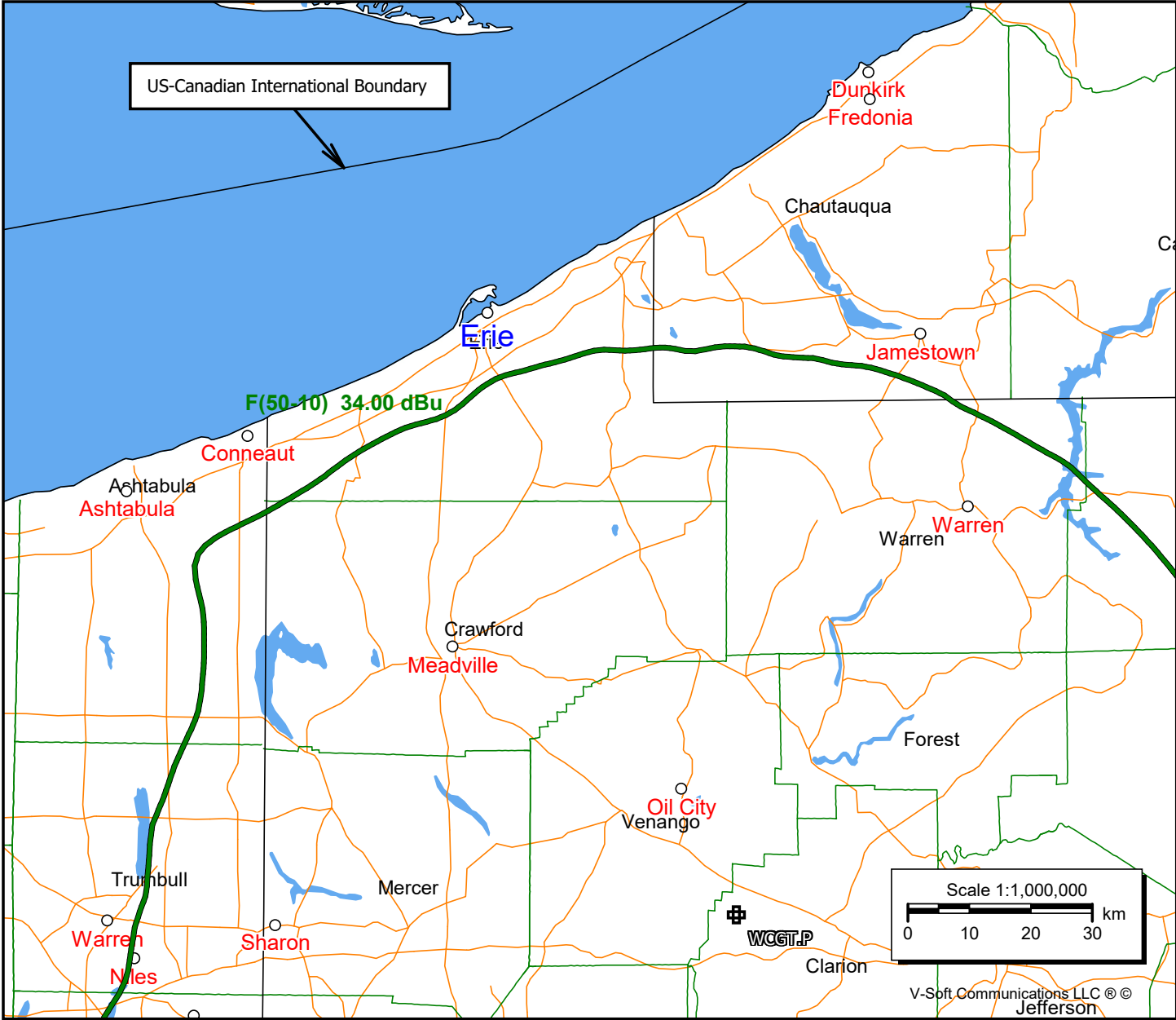
The proposed FM translator is located approximately 132km from the Canadian border. FLM has included the attached map (see Exhibit 4-A) to show that the 34dBu interfering contour of the proposed facility at no point extends beyond the Canadian border.

Therefore, the proposed facility fully will not cause interference to any existing or proposed Canadian facilities.

# US - Canadian International Compliance 34dbu(F50-10) Contour

Exhibit 4-A

**WCGT.P**  
Latitude: 41-14-56.50 N  
Longitude: 079-36-01.10 W  
ERP: 4.00 kW  
Channel: 204  
Frequency: 88.7 MHz  
AMSL Height: 485.0 m  
Elevation: 455.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None



**Human exposure to excess levels of radiofrequency radiation**

The proposed facility is to be built using a 3-bay circularly polarized full-wave spaced antenna.

As can be seen in Exhibit 5-A, the proposed facility's maximum contribution to RF on the site is  $175.016 \mu\text{W}/\text{cm}^2$  at a distance of 6 meters from the tower, which is 87.508% of the uncontrolled (public) exposure limit.

Because the proposed facility is below the  $200 \mu\text{W}/\text{cm}^2$  limit for uncontrolled exposure at any point, the proposed facility complies with the requirements of OET 65.

FLM will fully cooperate with other site users to temporarily reduce power or cease broadcasting, as necessary, to protect workers and others having access to the site from excessive levels of RF Radiation.

**RF Analysis: WCGT  
172665**

**Site type:** Application

**Channel:** 204

**Class:** A

**ERP:** 4kw

**Antenna:** Nicom

BKG77

3 bay

1.0 spaced

**COR AGL:** 30

**Polarization:** Circular Pol

<b>Distance From Tower (m)</b>	<b>WFRJ Facility</b>	<b>Total RF (uW/cm2)</b>	<b>Percent of 200uW/cm2</b>
0	148.489	148.49	74.245
1	151.693	151.69	75.847
2	154.565	154.56	77.282
3	158.992	158.99	79.496
4	166.221	166.22	83.111
5	172.841	172.84	86.420
<b>6</b>	<b>175.016</b>	<b>175.02</b>	<b>87.508</b>
7	174.757	174.76	87.379
8	173.406	173.41	86.703
9	170.278	170.28	85.139
10	165.865	165.86	82.932
11	160.272	160.27	80.136
12	154.664	154.66	77.332
13	147.637	147.64	73.819
14	139.275	139.28	69.638
15	128.066	128.07	64.033
16	116.290	116.29	58.145
17	104.193	104.19	52.097
18	92.482	92.48	46.241
19	81.006	81.01	40.503
20	69.779	69.78	34.890
21	59.034	59.03	29.517
22	48.338	48.34	24.169
23	38.745	38.74	19.372
24	30.317	30.32	15.158
25	23.071	23.07	11.536
26	17.020	17.02	8.510
27	12.060	12.06	6.030
28	8.109	8.11	4.055
29	5.079	5.08	2.539
30	2.867	2.87	1.433
31	1.357	1.36	0.678
32	0.457	0.46	0.229
33	0.051	0.05	0.026
34	0.034	0.03	0.017
35	0.308	0.31	0.154
36	0.797	0.80	0.398
37	1.460	1.46	0.730
38	2.239	2.24	1.119
39	3.084	3.08	1.542
40	3.953	3.95	1.977
41	4.811	4.81	2.406
42	5.628	5.63	2.814
43	6.363	6.36	3.181
44	6.911	6.91	3.456
45	7.354	7.35	3.677

Distance From Tower (m)	0.0000 Facility	Total RF (uW/cm2)	Percent of 200uW/cm2
46	7.690	7.69	3.845
47	7.922	7.92	3.961
48	8.055	8.05	4.027
49	8.094	8.09	4.047
50	8.050	8.05	4.025
51	7.931	7.93	3.966
52	7.747	7.75	3.874
53	7.524	7.52	3.762
54	7.252	7.25	3.626
55	6.942	6.94	3.471
56	6.600	6.60	3.300
57	6.235	6.23	3.117
58	5.853	5.85	2.927
59	5.462	5.46	2.731
60	5.066	5.07	2.533
61	4.671	4.67	2.336
62	4.281	4.28	2.140
63	3.899	3.90	1.950
64	3.529	3.53	1.765
65	3.164	3.16	1.582
66	2.813	2.81	1.406
67	2.483	2.48	1.241
68	2.175	2.17	1.087
69	1.889	1.89	0.945
70	1.626	1.63	0.813
71	1.385	1.39	0.693
72	1.167	1.17	0.584
73	0.970	0.97	0.485
74	0.795	0.79	0.397
75	0.639	0.64	0.320
76	0.504	0.50	0.252
77	0.386	0.39	0.193
78	0.287	0.29	0.143
79	0.204	0.20	0.102
80	0.136	0.14	0.068
81	0.084	0.08	0.042
82	0.045	0.04	0.022
83	0.018	0.02	0.009
84	0.004	0.00	0.002
85	0.000	0.00	0.000
86	0.006	0.01	0.003
87	0.022	0.02	0.011
88	0.046	0.05	0.023
89	0.077	0.08	0.038
90	0.115	0.11	0.057
91	0.159	0.16	0.079
92	0.209	0.21	0.104
93	0.263	0.26	0.131
94	0.321	0.32	0.161
95	0.384	0.38	0.192
96	0.449	0.45	0.225
97	0.517	0.52	0.259
98	0.588	0.59	0.294
99	0.660	0.66	0.330
100	0.734	0.73	0.367

### Special Operating Condition

WCGT License File Number 0000122278 contains a special operating condition as follows:

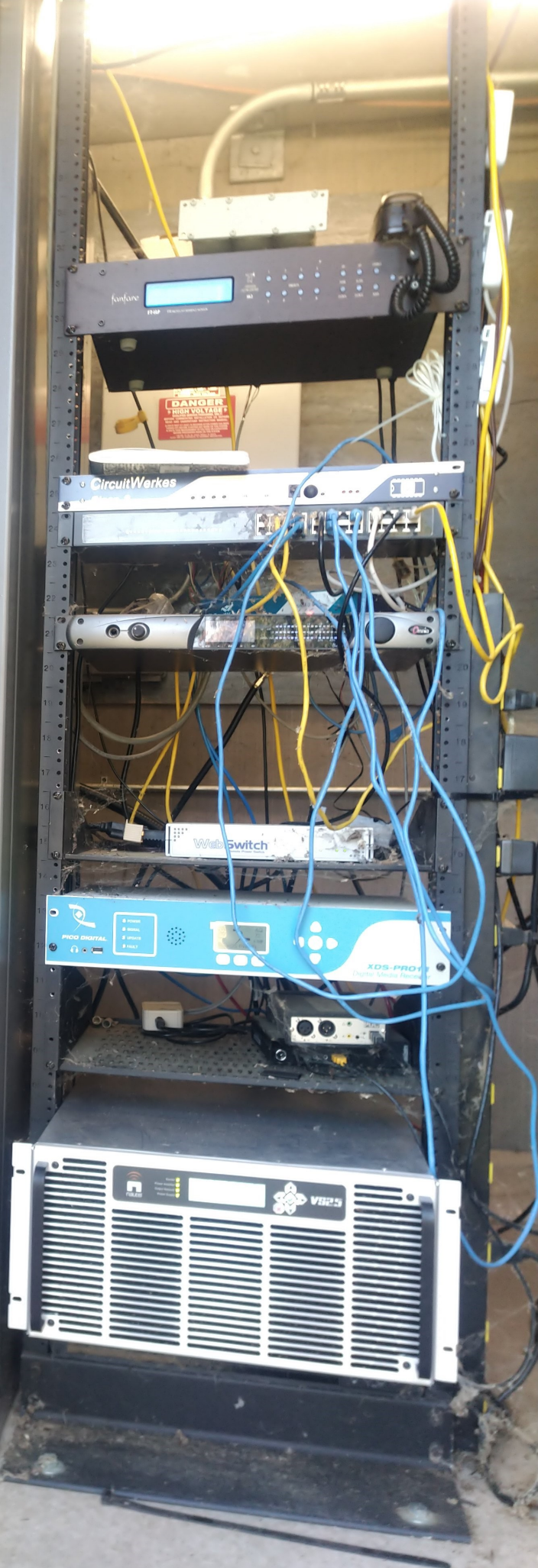
*Grant of this license application is conditioned upon the continuous operation of the licensed facility for the twelve-month period following grant, including specifically: (a) operation of the station in accordance with the station's FCC authorization with (i) an antenna mounted on a pole, tower, or other structure that is attached to a durable, non-movable structure, (ii) the antenna connected to a permanent power source, and (iii) if located on public property, advance approval by a written governmental authorization; and (b) operation of the station each day in accordance with the FCC's rules for minimum operating schedule (47 C.F.R. § 73.1740(a) for FM stations, 47 C.F.R. § 73.561(a) for NCE-FM stations and 47 C.F.R. § 73.850(b) for LPFM stations) without recourse to the procedures set out in 47 C.F.R. §§ 73.1740(a)(4), 73.561(d), and 73.850(d). The failure of the station to operate in compliance with any of the foregoing requirements will result in the rescission of this grant, dismissal of the license application and the forfeiture of the associated construction permit pursuant to 47 C.F.R. § 73.3598(e) unless the licensee rebuts the resulting presumption that the authorized facilities were temporarily constructed. Evidence of non-temporary construction could include, but is not limited to, station logs, utility bills, lease documents, photographs of the installed antenna/transmitter/studio equipment, and other relevant documentation.*

Family Life Ministries is hereby rebutting the presumption that WCGT was temporarily constructed. The WCGT transmit antenna is mounted on a permanent structure that is also the location of the WCOP FM antenna. The tower was constructed in 2012 and assigned Antenna Structure Registration number 1274887. The WCGT transmitter is located in a permanent structure located adjacent to the tower. The electrical power source is a permanent power source with the Central Electric Co-op located in Parker, PA. The transmitter is operating 24 hours a day and 7 days power week thus fulfilling 73.1740(a). WCGT is operating at its fully licensed power. The tower owner and the WCGT licensee are one and the same so no lease agreement has been executed.

Photos of the antenna mounted 81 meters above ground and the transmitter located in the transmitter shelter are included with this exhibit.

WCGT has been constructed according to construction permit number 0000116808 and is operating according to license number 0000122278. WCGT has not been constructed in a temporary manor and is operating fulltime. Therefore, Family Life Ministries believes it has sufficiently rebutted the presumption that WCGT was temporarily constructed.











WCOP Antenna

WCGT Antenna

