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New NCE FM Construction Permit Application

Application Submitted

Approved by OMB (Office of Management and Budget) 3060-0027 September 2014

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Application Summary

File Number:

0000166498

Application Purpose:

New NCE FM CP

Status:

Pending

Date Submitted:

11/05/2021

Applicant Information

Name:

Calvary Chapel Bible Broadcasting

Title:

Address:

1815 Colebrook Rd.
Lebanon, PA 17042
United States

Phone:

+1 (717) 507-5633

Email:

333dws@gmail.com

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(REFERENCE COPY - Not for submission)
New NCE FM Construction Permit Application

File Number: 0000166498 | Submit Date: 11/05/2021 | Lead Call Sign: | FRN: 0027235043
Service: Full Power FM | Purpose: New NCE FM CP | Status: Pending | Status Date: 11/05/2021 | Filing Status: Active

General Information

Section	Question	Response
Attachments	Are attachments (other than associated schedules) being filed with this application?	No

Fees, Waivers, and Exemptions

Section	Question	Response
Waivers	Does this filing request a waiver of the Commission's rule (s)?	No
	Total number of rule sections involved in this waiver request:	N/A

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
Calvary Chapel Bible Broadcasting	1815 Colebrook Rd. Lebanon, PA 17042 United States	+1 (717) 507-5633	333dws@gmail.com	Company

Contact Representatives (2)

Contact Name	Address	Phone	Email	Contact Type
Matthew H. McCormick <i>Attorney</i> Fletcher, Heald & Hildreth, P. L.C.	1300 North 17th Street Suite 1100 Arlkington, VA 22209 United States	+1 (703) 812-0438	mccormick@fhhlaw.com	Legal Representative
ROBERT MOORE <i>Consultant</i> RCM Enterprises	1908 Sweetbriar Goshen, IN 46528 United States	+1 (574) 534-2002	BobMoore@MapleNet.net	Technical Representative

Eligibility Certifications

Section	Question	Response
Eligibility Certifications	The applicant certifies that it is a:	Nonprofit educational organization, other than as described above.
	The applicant certifies that the Commission has previously granted a broadcast application identified here by file number that found this applicant qualified as a noncommercial educational entity with a qualifying educational program, and that the applicant will use the proposed station to advance a program similar to that the Commission has found qualifying in applicant's previous application.	No

	The applicant certifies that its governing documents (e.g., articles of incorporation, by-laws, charter, enabling statute, and/or other pertinent organizational document) permit the applicant to advance an educational program and that there is no provision in any of those documents that would restrict the applicant from advancing an educational program or complying with any Commission rule, policy, or provision of the Communications Act of 1934, as amended.	Yes
--	---	-----

Parties to the Application (4)

Party Name	Address	Phone	Email	Positional Interest
Denny Stichter <i>President and Board Member</i> Calvary Chapel Bible Broadcasting	1815 Colebrook Road Lebanon, PA 17042	+1 (707) 507-5633	333dws@gmail.com	Positional Interest: Director Citizenship: United States Percentage of Votes: 33.33% Percentage of Total Assets: 0%
Ernest Warlow <i>Secretary and Board Member</i> Calvary Chapel Bible Broadcasting	474 Monroe Valley Drive Fredericksburg, PA 17026	+1 (717) 507-7172	warlowe@comcast.net	Positional Interest: Director Citizenship: United States Percentage of Votes: 33.33% Percentage of Total Assets: 0%
Dale Reppert <i>Vice-President abd Board Member</i> Calvary Chapel Bible Broadcasting	47 Freeman Drive Lebanon, PA 17042	+1 (717) 269-2022	dlreppert@comcast.net	Positional Interest: Director Citizenship: United States Percentage of Votes: 33.33% Percentage of Total Assets: 0%
Calvary Chapel Bible Broadcasting	1815 Colebrook Road Lebanon, PA 17042	+1 (717) 507-5633	333dws@gmail.com	Positional Interest: Applicant Citizenship: United States Percentage of Votes: 0% Percentage of Total Assets: 100%

Attributable Interest

Section	Question	Response
Equity and Financial Interests	Applicant certifies that equity and financial interests not listed in the Parties to the Application section are non-attributable pursuant to the notes to 47 C.F.R. Section 73.3555.	Yes
Other Authorizations	Does the applicant or any party to the application have an attributable interest in any other broadcast station(s).	Yes

Legal
Certifications

Section	Question	Response
Character Issues	Applicant certifies that neither the applicant nor any party to the application has or had any interest in, or connection with: (a) any broadcast application in any proceeding where character issues were left unresolved or were resolved adversely against the applicant or party to the application; or (b) any pending broadcast application in which character issues have been raised.	Yes
Adverse Findings	Applicant certifies that, with respect to the applicant and each party to the application, no adverse finding has been made, nor has an adverse final action been taken by any court or administrative body in a civil or criminal proceeding brought under the provisions of any laws related to any of the following; any felony; mass media-related antitrust or unfair competition; fraudulent statements to another government unit; or discrimination.	Yes
Program Service Certification	Applicant certifies that it is cognizant of and will comply with its obligations as a Commission licensee to present a program service responsive to the issues of public concern facing the station's community of license and service area.	Yes
Local Public Notice	Applicant certifies that it has or will comply with the public notice requirements of 47 C.F.R. Section 73.3580.	Yes
Equal Employment Opportunity (EEO)	If the applicant proposes to employ five or more full-time employees, applicant certifies that it is filing simultaneously with this application a Broadcast EEO Model Program Report.	N/A
Financial	The applicant certifies that sufficient net liquid assets are on hand or that sufficient funds are available from committed sources to construct and operate the requested facilities for three months without revenue.	Yes
	The applicant certifies that this application is contingent upon receipt of a grant from a charitable organization, the approval of the budget of a school or university, or an appropriation from a state, county, municipality or other political supervision.	N/A

Alien Ownership

Question	Response
1) Is the applicant a foreign government or the representative of any foreign government as specified in Section 310(a) of the Communications Act?	No
2) Is the applicant an alien or the representative of an alien? (Section 310(b)(1))	No
3) Is the applicant a corporation, or non-corporate entity, that is organized under the laws of any foreign government? (Section 310(b)(2))	No
4) Is the applicant an entity of which more than one-fifth of the capital stock, or other equity or voting interest, is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any entity organized under the laws of a foreign country? (Section 310(b)(3))	No
5) Is the applicant directly or indirectly controlled by any other entity of which more than one-fourth of the capital stock, or other equity or voting interest, is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof, or by any entity organized under the laws of a foreign country? (Section 310(b)(4))	No
6) Has the applicant received a declaratory ruling(s) under Section 310(b)(4) of the Communications Act?	No
6a) Enter the citation of the applicable declaratory ruling by DA/FCC number or the FCC Record citation, release date, or any other identifying information.	

7) Has there been any change in the applicant's foreign ownership since issuance of the declaratory ruling(s) cited in response to Question 6?	
8) Does the applicant certify that it is in compliance with the terms and conditions of the foreign ownership declaratory ruling(s) cited in response to Question 6?	
9) In connection with this application, is the applicant filing a foreign ownership Petition for Declaratory Ruling pursuant to Section 310(b)(4) of the Communications Act?	No

Fair Distribution of Service

Section	Question	Response
Fair Distribution of Service	Applicant certifies that it provides a first aural (reception) service.	No
	Applicant certifies that: (a) it is a Tribal Applicant, as defined in 47 C.F.R. Section 73.7000; (b) the facilities proposed in this Application will provide Tribal Coverage, as defined in 47 C.F.R. Section 73.7000, of Tribal Lands occupied by the applicant Tribe(s); (c) the proposed community of license is located on Tribal Lands, as defined in 47 C.F.R. Section 73.7000; and (d) the proposed facility would be the first local Tribal-owned noncommercial educational transmission service at the proposed community of license.	No
	Applicant certifies that the proposed station will provide a first noncommercial aural service to (a) at least 10 percent of the people residing within the station's 60 dBu (1mV/m) service contour and (b) to a minimum of 2,000 people.	Yes
	Applicant certifies that the proposed station will provide a second noncommercial aural service, or an aggregated first and second noncommercial educational aural service, to (a) at least 10 percent of the people residing within the station's 60 dBu (1mV/m) service contour and (b) to a minimum of 2,000 people.	Yes

Point System Factors /Tiebreakers

Section	Question	Response
Established Local Applicant	Applicant certifies that for at least the 24 months immediately prior to application, and continuing through the present, it qualifies as a local applicant pursuant to 47 CFR Section 73.7000, and that it is has placed documentation of its qualifications as an established local applicant in the applicant's public inspection file and has submitted to the Commission copies of the documentation.	Yes
	If the applicant certifies above that it qualifies for points as an "established local applicant," applicant pledges to maintain localism characteristics during the period from the grant of the construction permit until the station has achieved at least four years of on-air operations.	Yes

Diversity of Ownership	Applicant certifies (1) that the principal community (city grade) contour of the proposed station does not overlap the principal community contour of any other authorized station (comparing radio to radio and television to television, including non-fill-in translator stations) in which any party to the application has an attributable interest as defined in 47 CFR Section 73.3555, and (2) that it has placed documentation of its diversity qualifications in the applicant's public inspection file and has submitted to the Commission copies of the documentation.	Yes
	Is the applicant's certification to the question above based on a pledge to divest an attributable broadcast interest or resign from an attributable positional interest?	No
	If the applicant certifies above that it qualifies for points for "diversity of ownership," applicant and any party to the application pledge to comply with the restrictions on station modifications and acquisitions, as defined in 47 CFR Section 73.7005, during the period from grant of the construction permit until the station has achieved at least four years of on-air operations.	Yes
State-wide Network	Applicant certifies that (a) it has NOT claimed a credit for diversity of ownership above; (b) it is one of the three specific types of organizations described in 47 C.F.R. Section 73.7003(b)(3); and (c) it has placed documentation of its qualifications in a local public inspection file and has submitted to the Commission copies of the documentation.	No
Technical Parameters	Applicant certifies that the numbers in the boxes below accurately reflect the new area and population that its proposal would serve with a 60 dBu signal measured in accordance with the standard predicted contours in 47 C.F. R. Section 73.313(c) and that it has documented the basis for its calculations in the local public inspection file and has submitted copies to the Commission. Major modification applicants should include new area proposed only (exclude any area already within the station's existing service area). (Points, if any, will be determined by FCC)	Yes
	New area served in square kilometers (excluding areas of water):	383
	Population served based on the most recent census block data from the United State:	23636
Existing Authorizations	By placing a number in the box, the applicant certifies that it and other parties to the application have, as of the date of the filing and pursuant to 47 C.F.R. Section 73.3555, attributable interests in the stated number of relevant broadcast station authorizations. Radio applicants should count all attributable full service radio stations, AM and FM, commercial and noncommercial, and FM translator stations other than fill-in stations or those identified in the second question (pledge to divest an attributable broadcast interest /resign from an attributable positional interest) under Diversity of Ownership above.	2

Channel and Facility Information

Pending Applications	By placing a number in the box, the applicant certifies that it and other parties to the application have, as of the date of the filing and pursuant to 47 C.F.R. Section 73.3555, attributable interests in the stated number of pending applications for new or major changes to relevant broadcast stations. Radio applicants should count all attributable full service radio stations, AM and FM, commercial and noncommercial, and FM translator stations other than fill-in stations or those identified in the second question (pledge to divest an attributable broadcast interest/resign from an attributable positional interest) under Diversity of Ownership above.	2
Prior NCE applications	Applicant certifies that it applied for an NCE construction permit in a prior filing window and had its application accepted for filing and processed, but subsequently dismissed in favor of an applicant with superior points, or based on a tie-breaker preference.	No
	Applicant certifies that (1) it has been in continuous existence from the date of the previous filing window until the present, and (2) it does not hold any NCE construction permit or license.	N/A
Established Community Presence	Provide the date on which the applicant qualified as local. See 47 CFR Section 73.7000.	2016-02-22 00:00:00.0
	Applicant certifies that it has remained local at all times since this date.	Yes

Antenna Location Data

Section	Question	Response
Proposed Community of License	State	Pennsylvania
	City	PINE GROVE
	Channel	201
	Frequency	88.1
Facility Type	Facility Type	Noncommercial Educational
Station Class	Station Class	A

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	No
	ASR Number	
Coordinates (NAD83)	Latitude	40° 30' 58.0" N+
	Longitude	076° 20' 09.0" W-
	Structure Type	GTOWER-Guyed Structure Used for Communication Purposes
	Overall Structure Height	52 meters
	Support Structure Height	0 meters
	Ground Elevation (AMSL)	442.0 meters

Antenna
Technical Data

Antenna Data	Height of Radiation Center Above Ground Level	Horizontal:52 meters Vertical:0 meters
	Height of Radiation Center Above Average Terrain	Horizontal:266 meters Vertical:0 meters
	Height of Radiation Center Above Mean Sea Level	Horizontal:494.0 meters Vertical:0 meters
	Effective Radiated Power	Horizontal:0.070 Vertical: 0

Section	Question	Response
Antenna Type	Antenna Type	Directional

Directional Antenna Relative Field Value

Degree	Value	Degree	Value	Degree	Value	Degree	Value
0	0.757	90	0.256	180	0.802	270	0.542
10	0.754	100	0.203	190	0.986	280	0.43
20	0.599	110	0.213	200	1.0	290	0.342
30	0.475	120	0.24	210	0.942	300	0.3
40	0.378	130	0.303	220	0.748	310	0.361
50	0.3	140	0.381	230	0.594	320	0.368
60	0.259	150	0.42	240	0.652	330	0.459
70	0.222	160	0.521	250	0.699	340	0.513
80	0.28	170	0.656	260	0.682	350	0.646

Additional Azimuths

Degree	Value
--------	-------

Technical
Certifications

Section	Question	Response
Environmental Effect	Would a Commission grant of Authorization for this location be an action which may have a significant environmental effect? (See 47 C.F.R. Section 1.1306)	No
Broadcast Facility	Does the proposed facility comply with the applicable engineering standards and assignment requirements of 47 C.F.R. Sections 73.203, 73.207, 73.213, 73.315, 73.509, and 73.515?	Yes
Contour Protection	Does the proposed facility request processing pursuant to the contour protection provisions of 47 C.F.R Section 73.215?	No
Reasonable Site Assurance	Applicant certifies that it has reasonable assurance in good faith that the site or proposed structure at the location of its transmitting antenna will be available to the applicant for the applicant's intended purpose.	Yes
	If reasonable assurance is not based on applicant's ownership of the proposed site or structure, applicant certifies that it has obtained such reasonable assurance by contacting the owner or person possessing control of the site or structure.	Yes

Certification

Section	Question	Response
General Certification Statements	The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by authorization or otherwise, and requests an Authorization in accordance with this application (See Section 304 of the Communications Act of 1934, as amended.).	
	The Applicant certifies that neither the Applicant nor any other party to the application is subject to a denial of Federal benefits pursuant to §5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. § 862, because of a conviction for possession or distribution of a controlled substance. This certification does not apply to applications filed in services exempted under §1.2002(c) of the rules, 47 CFR . See §1.2002(b) of the rules, 47 CFR § 1.2002(b), for the definition of "party to the application" as used in this certification § 1.2002(c). The Applicant certifies that all statements made in this application and in the exhibits, attachments, or documents incorporated by reference are material, are part of this application, and are true, complete, correct, and made in good faith.	
Authorized Party to Sign	FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID Upon grant of this application, the Authorization Holder may be subject to certain construction or coverage requirements. Failure to meet the construction or coverage requirements will result in automatic cancellation of the Authorization. Consult appropriate FCC regulations to determine the construction or coverage requirements that apply to the type of Authorization requested in this application. WILLFUL FALSE STATEMENTS MADE ON THIS FORM OR ANY ATTACHMENTS ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. Code, Title 18, §1001) AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, §312(a)(1)), AND /OR FORFEITURE (U.S. Code, Title 47, §503).	
	I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.	Denny Stichter <i>President</i> 11/05/2021

Attachments

File Name	Uploaded By	Attachment Type	Description	Upload Status
<u>Broadcast Facility (01566603xB3D1E).pdf</u>	Applicant	Technical Certifications	Broadcast Facility	Done with Virus Scan and/or Conversion
<u>Calvary Chapel Bible Broadcasting -- Pine Grove PA Established Local Applicant and Diversity of Ownership Exhibit (01568954xB3D1E).pdf</u>	Applicant	Point System Factor/Tie Breakers	Established Local Applicant and Diversity of Ownership Exhibit	Done with Virus Scan and/or Conversion
<u>First and Second NCE Service (01566597xB3D1E).pdf</u>	Applicant	Fair Distribution of Service	First and Second NCE Service	Done with Virus Scan and/or Conversion

<u>Other Broadcast Authorizations</u> <u>(01566594xB3D1E).pdf</u>	Applicant	Attributable Interest	Other Broadcast Authorizations	Done with Virus Scan and/or Conversion
<u>Pine Grove -- Consolidated Engineering</u> <u>Statement 10-29-21 (01567375xB3D1E).doc</u>	Applicant	Technical Certifications	Pine Grove, PA -- Consolidated Engineering Statement	Done with Virus Scan and/or Conversion
<u>Pine Grove, PA -- Reasonable Assurance of Site</u> <u>Availability (01567311xB3D1E).pdf</u>	Applicant	Technical Certifications	Pine Grove, PA -- Reasonable Assurance of Site Availability	Done with Virus Scan and/or Conversion
<u>Statement of Educational Objectives</u> <u>(01566590xB3D1E).pdf</u>	Applicant	Eligibility Certifications	Educational Objectives	Done with Virus Scan and/or Conversion

Established Local Applicant and Diversity of Ownership Exhibit

Pine Grove, Pennsylvania

I, Denny Stichter, declare under penalty of perjury:

I am President and a Director of Calvary Chapel Bible Broadcasting ("CCBB"). CCBB is an applicant for new Noncommercial Educational ("NCE") Stations to be licensed to the communities of, respectively, Pine Grove, Pennsylvania and Hazleton, Pennsylvania.

On February 22, 2016, CCBB was incorporated as a Pennsylvania nonprofit corporation.

CCBB is entitled to Established Local Applicant points with respect to its Pine Grove application because (a) it has been in existence for more than two years and (b) all three of its directors reside within 25 miles of the reference points for Pine Grove, Pennsylvania, as demonstrated in the Consolidated Engineering Statement submitted with the Pine Grove application, and have done so for more than two years.

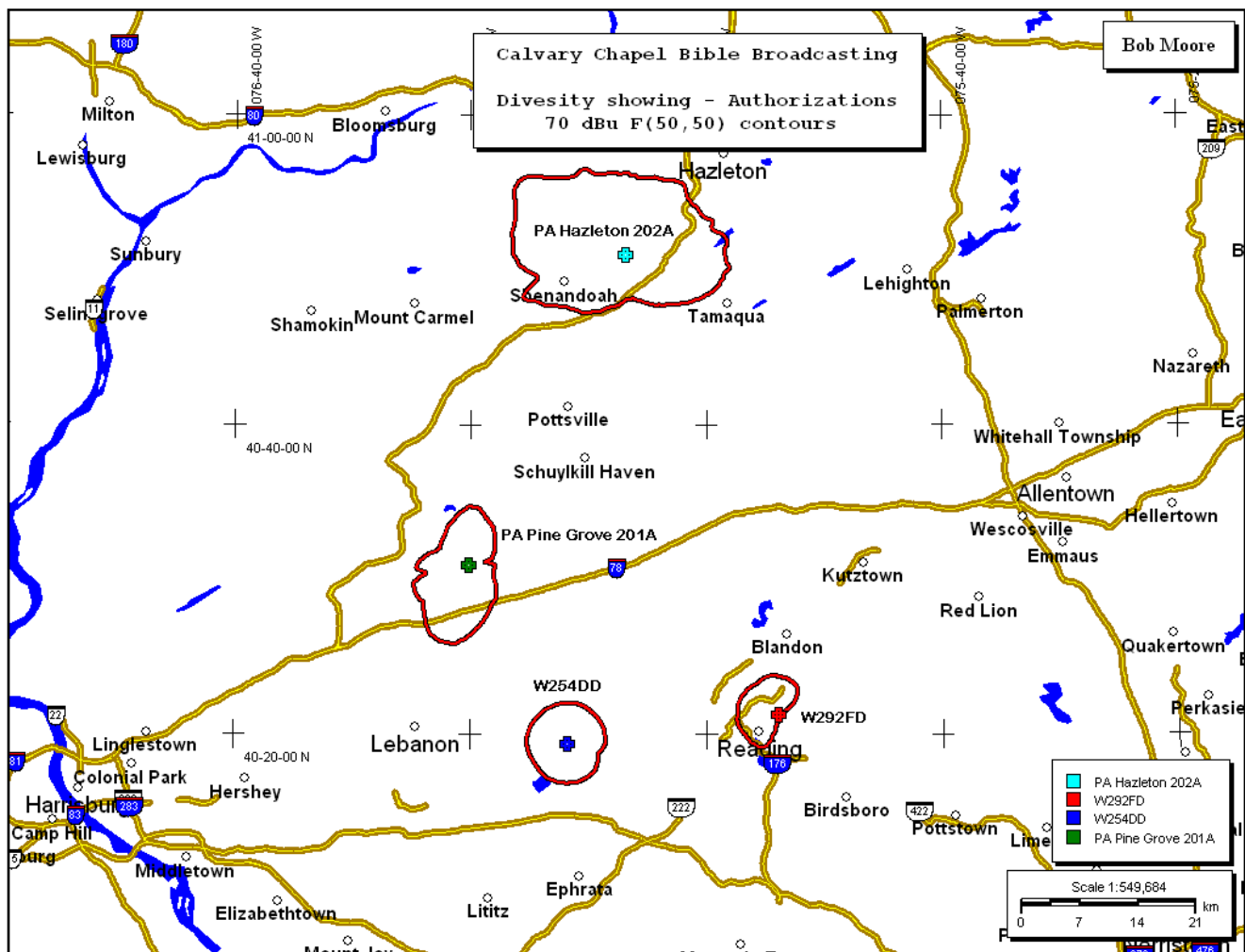
With respect to the Pine Grove station, CCBB pledges to maintain localism characteristics during the period from the grant of the construction permit until the station has achieved at least four years of on-air operations.

CCBB also is entitled to Diversity of Ownership points. As demonstrated by the attached map prepared by Bob Moore, CCBB's Consulting Engineer, the principal community contour of the proposed Pine Grove station does not overlap the principal community contour of either of the translators CCBB owns or the principal community contour of CCBB's proposed Hazleton station.

CCBB and all parties to its applications pledge to comply with the restrictions on station modifications and acquisitions, as defined in 47 CFR Section 73.7005, during the period from grant of the Pine Grove construction permit until the station has achieved at least four years of on-air operations.

Dated November 5, 2021


Denny Stichter



Entity# : 6366639
 Date Filed : 02/22/2016
 Pedro A. Cortés
 Secretary of the Commonwealth

PENNSYLVANIA DEPARTMENT OF STATE
 BUREAU OF CORPORATIONS AND CHARITABLE ORGANIZATIONS

☒ Return document by mail to: Frederick S. Wolfson Name 1601 Cornwall Road Address Lebanon PA 17042 City State Zip Code ☐ Return document by email to: _____			Articles of Incorporation-Nonprofit DSCB:15-5306/7102 (rev. 7/2015)  TML160302DB1407
--	--	--	--

Read all instructions prior to completing. This form may be sub.....

Fee: \$125

Check one: ☒ Domestic Nonprofit Corporation (§ 5306) ☐ Nonprofit Cooperative Corporation (§ 7102)

In compliance with the requirements of the applicable provisions (relating to articles of incorporation or cooperative corporations generally), the undersigned, desiring to incorporate a nonprofit/nonprofit cooperative corporation, hereby state(s) that:

1. The name of the corporation is: Calvary Chapel Bible Broadcasting				
2. Complete part (a) or (b) – not both:				
(a) The address of this corporation's current registered office in this Commonwealth is: (post office box alone is not acceptable)				
219 Juniper Street	Lebanon	PA	17042	Lebanon County
Number and Street	City	State	Zip	County
(b) The name of this corporation's commercial registered office provider and the county of venue is:				
c/o:				
Name of Commercial Registered Office Provider				County
3. The corporation is incorporated under the Nonprofit Corporation Law of 1988 for the following purpose or purposes. Religious radio broadcasting.				
4. The corporation does not contemplate pecuniary gain or profit, incidental or otherwise.				
5. Check and complete one: ☒ The corporation is organized on a nonstock basis. ☐ The corporation is organized on a stock share basis and the aggregate number of shares authorized is _____				

PA DEPT. OF STATE

FEB 22 2016

DSCB:15-5306/7102-2

6. For unincorporated association incorporating as a nonprofit corporation only. Check if applicable:
_____ The incorporators constitute a majority of the members of the committee authorized to incorporate such association by the requisite vote required by the organic law of the association for the amendment of such organic law.

7. For Nonprofit Corporation Only:

- Check one: ☒ The corporation shall have no members.
_____ The corporation shall have members.

8. For Nonprofit Cooperative Corporation Only:

Check and complete one:

- _____ The corporation is a cooperative corporation and the common bond of membership among its members is: _____
_____ The corporation is a cooperative corporation and the common bond of membership among its shareholders is: _____

9. The name(s) and address(es) of each incorporator(s) is (are) (all incorporators must sign below):

Name(s)

Address(es)

Frederick S. Wolfson

1601 Cornwall Road, Lebanon, PA 17042

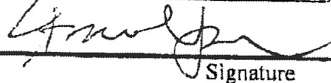
10. The specified effective date, if any, is:

_____ month _____ day _____ year _____ hour, if any

11. Additional provisions of the articles, if any, attach an 8½ x 11 sheet.

IN TESTIMONY WHEREOF, the incorporator(s)
has/have signed these Articles of Incorporation this

11th day of February, 2016.


Signature

Signature

Signature

**ATTACHMENT TO
ARTICLES OF INCORPORATION – NONPROFIT
OF
CALVARY CHAPEL BIBLE BROADCASTING**

11. Additional provisions of the articles:

(a) No part of the net earnings of the corporation shall inure to the benefit of, or be distributable to, its members, trustees or officers or to other private persons, except that the corporation shall be authorized and empowered to pay reasonable compensation for services rendered and to make payments and distributions in furtherance of the purposes set forth in Article 3 hereof. No substantial part of the activities of the corporation shall be the carrying on of propaganda, or otherwise attempting to influence legislation, and the corporation shall not participate in, or intervene in (including the publishing or distribution of statements) any political campaign on behalf of or in opposition to any candidate for public office. Notwithstanding any other provision of these Articles, the corporation shall not carry on any other activities not permitted to be carried on (a) by a corporation exempt from federal income tax under section 501(c)(3) of the Code, or the corresponding section of any further federal tax code, or (b) by a corporation contributions to which are deductible under section 170(c)(2) of the Code, or the corresponding section of any future federal tax code.

(b) Upon the dissolution of the corporation, assets shall be distributed to an organization exempt from federal income tax under Section 501(c)(3) of the Code, or the corresponding section of any future federal tax code, or shall be distributed to the federal government, or to a state or local government, or to a state or local government, for a public purpose. Any such assets not so disposed of shall be disposed of by a court of competent jurisdiction of the county in which the principal office of the corporation is then located, exclusively for such purposes or to such organizations, as such court shall determine, which are organized and operated exclusively for such purposes.

Broadcast Facility

See Consolidated Engineering Statement.

First and Second NCE Service

See Consolidated Engineering Statement.

Other Broadcast Authorizations

Calvary Chapel Bible Broadcasting is the licensee of FM Translator W292FD (Facility ID No. 144032), Reading, Pennsylvania, and FM Translator W254DD (Facility ID No. 144129), Ephrata, Pennsylvania.

Consolidated Engineering Statement New Station

Calvary Chapel Bible Broadcasting

Pine Grove, PA 201A

Robert Moore
10/29/2021

Abstract	1
Identification of the tower	2
Threshold showing	4
City coverage	5
Pattern Showing	6
Localism Showing	7
FM Interference	9
Prop vs WBGM	11
Prop vs WZXM	16
Prop vs WDIY	20
Prop vs WYBQ	25
Prop vs WRGN	26
Channel 6 Television	27
Radiation Hazard	29
Protected zone studies	30

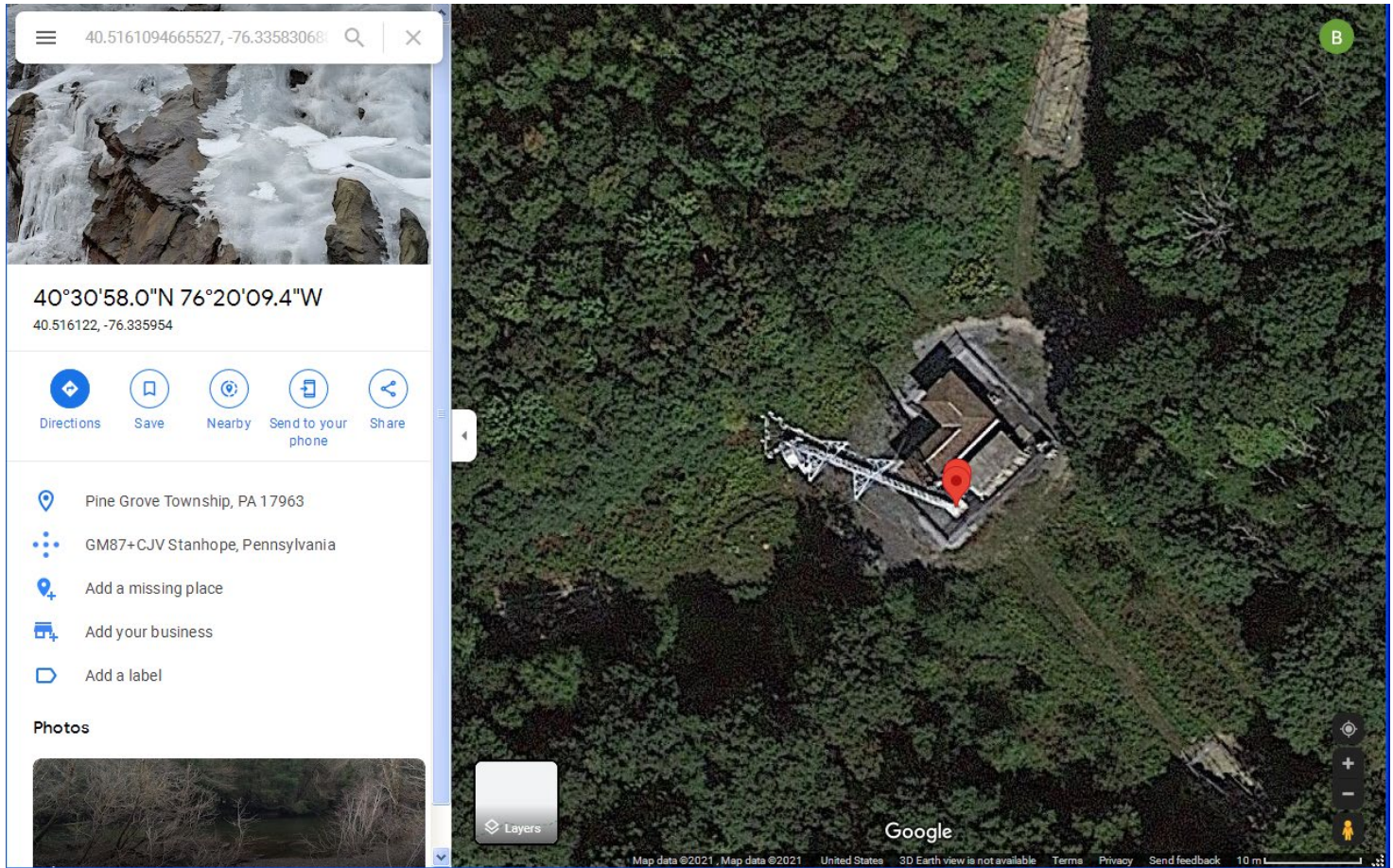
Abstract

This application proposes a new NCE FM station, at the top of an existing 170 foot AGL ATC rental tower (#088173) and a directional antenna.

Identification of the tower

Dist	Azi	Site	AGL	Top	Ident	Owner	Phone	E-mail	Lat	Lon	Src
0.03	249	442	52	494	088183	American Tow	(781)926-4586	yannis.macheras@americant	403057.67	762010.17	ATN

(This old database is still in NAD27, not NAD 83.) Actual coordinates are derived from the photo below.



3
This tower does not need an ASR because it passes the TowAir criterion.



Federal
Communications
Commission

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Antenna Structure Registration

[FCC](#) > [WTB](#) > [ASR](#) > [Online Systems](#) > TOWAIR

FCC Site Map

TOWAIR Determination Results

 [New Search](#)  [Printable Page](#)

 [HELP](#)

A routine check of the coordinates, heights, and structure type you provided indicates that this structure does not require registration.

***** NOTICE *****

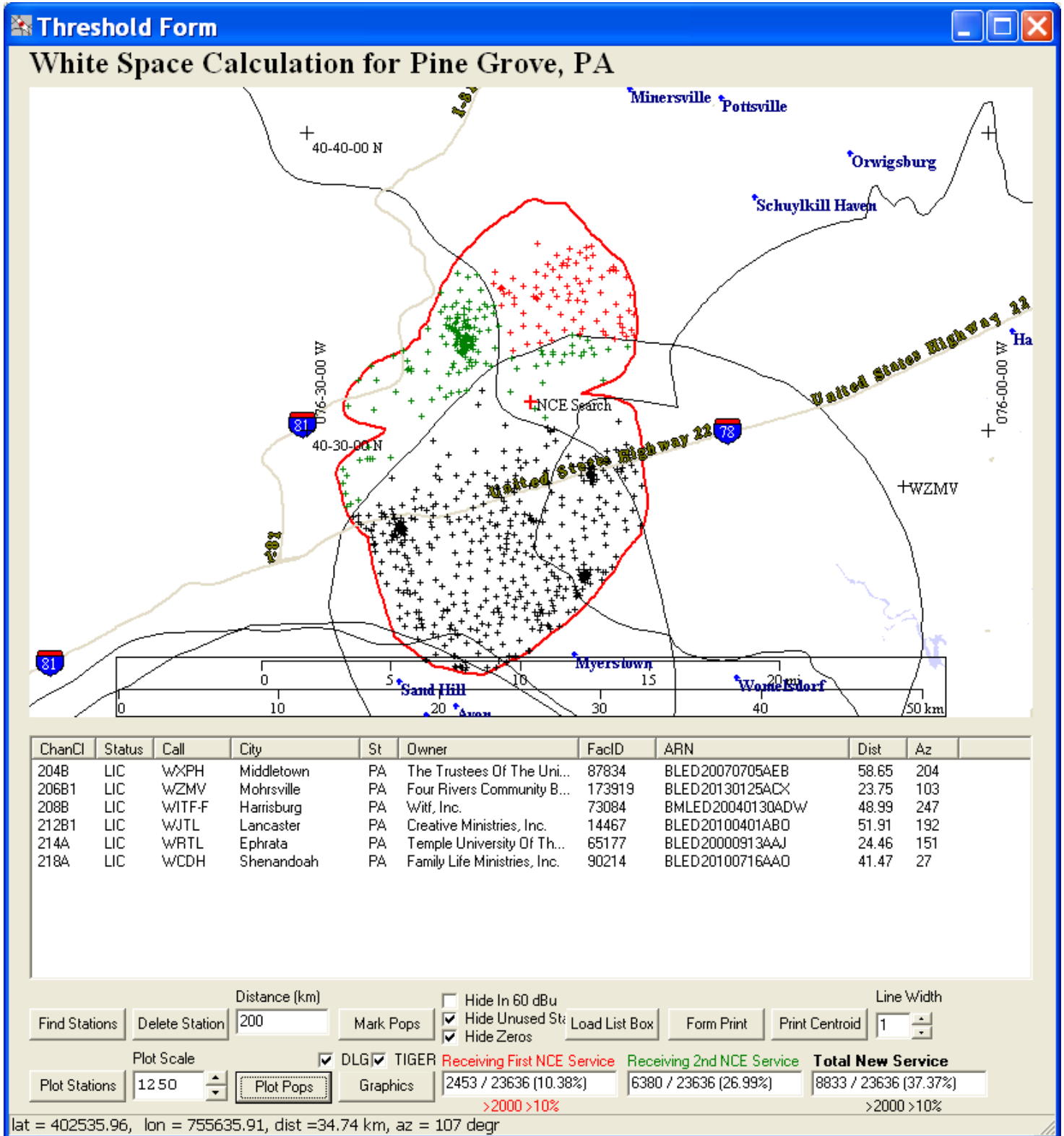
TOWAIR's findings are not definitive or binding, and we cannot guarantee that the data in TOWAIR are fully current and accurate. In some instances, TOWAIR may yield results that differ from application of the criteria set out in 47 C.F.R. Section 17.7 and 14 C.F.R. Section 77.13. A positive finding by TOWAIR recommending notification should be given considerable weight. On the other hand, a finding by TOWAIR recommending either for or against notification is not conclusive. It is the responsibility of each ASR participant to exercise due diligence to determine if it must coordinate its structure with the FAA. TOWAIR is only one tool designed to assist ASR participants in exercising this due diligence, and further investigation may be necessary to determine if FAA coordination is appropriate.

DETERMINATION Results							
PASS SLOPE(50:1): NO FAA REQ-RWY 10499 MTRS OR LESS & 6214.87 MTRS (6.21490) KM AWAY							
Type	C/R	Latitude	Longitude	Name	Address	Lowest Elevation (m)	Runway Length (m)
AIRP	C	40-29-5.00N	076-15-49.00W	GRIMES	BERKS BETHEL, PA	177.4	829.10000000000002

Your Specifications	
NAD83 Coordinates	
Latitude	40-30-58.0 north
Longitude	076-20-09.0 west
Measurements (Meters)	
Overall Structure Height (AGL)	52
Support Structure Height (AGL)	0
Site Elevation (AMSL)	442
Structure Type	
GTOWER - Guyed Structure Used for Communication Purposes	

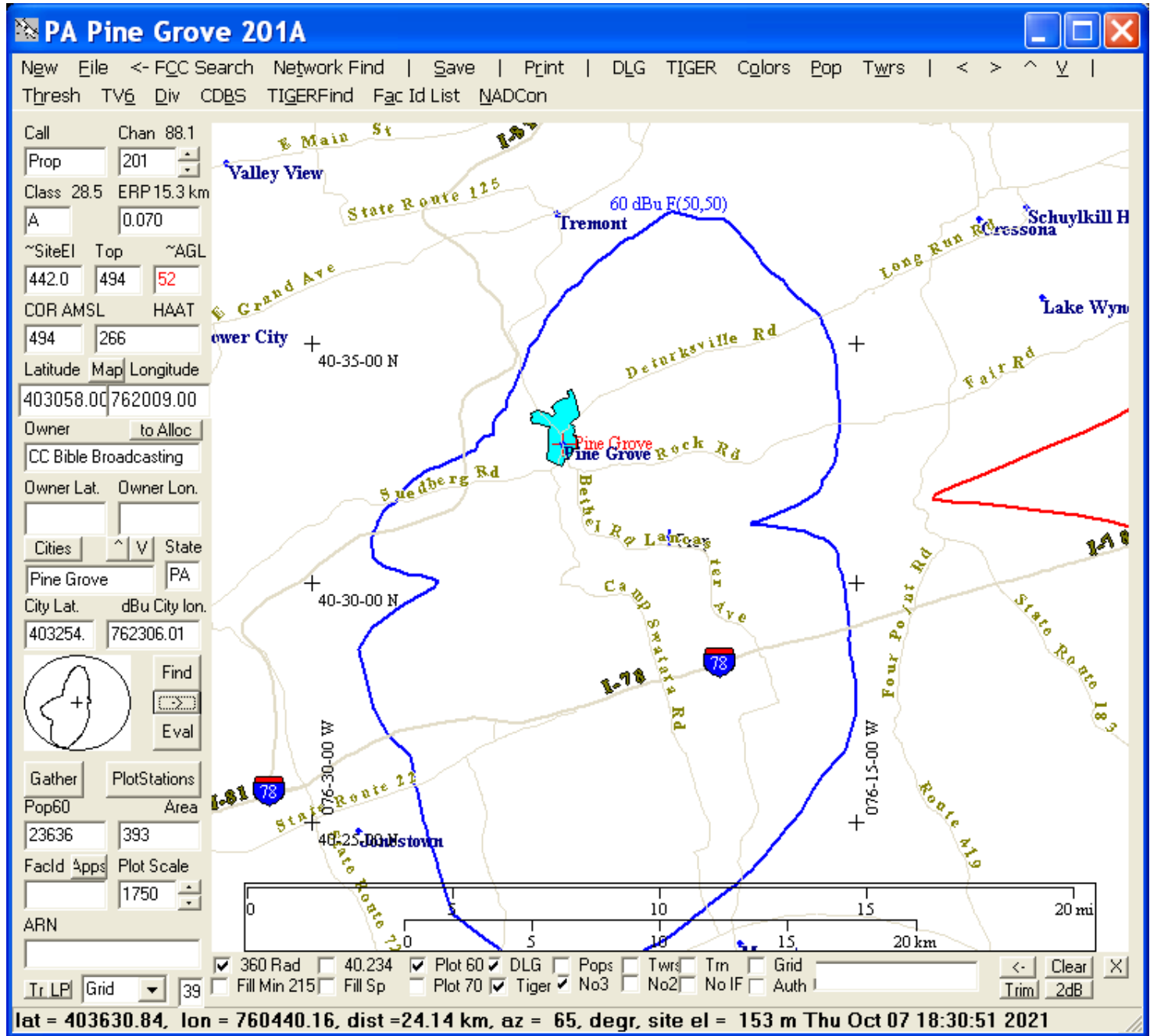
Tower Construction Notifications
Notify Tribes and Historic Preservation Officers of your plans to build a tower.

Threshold showing

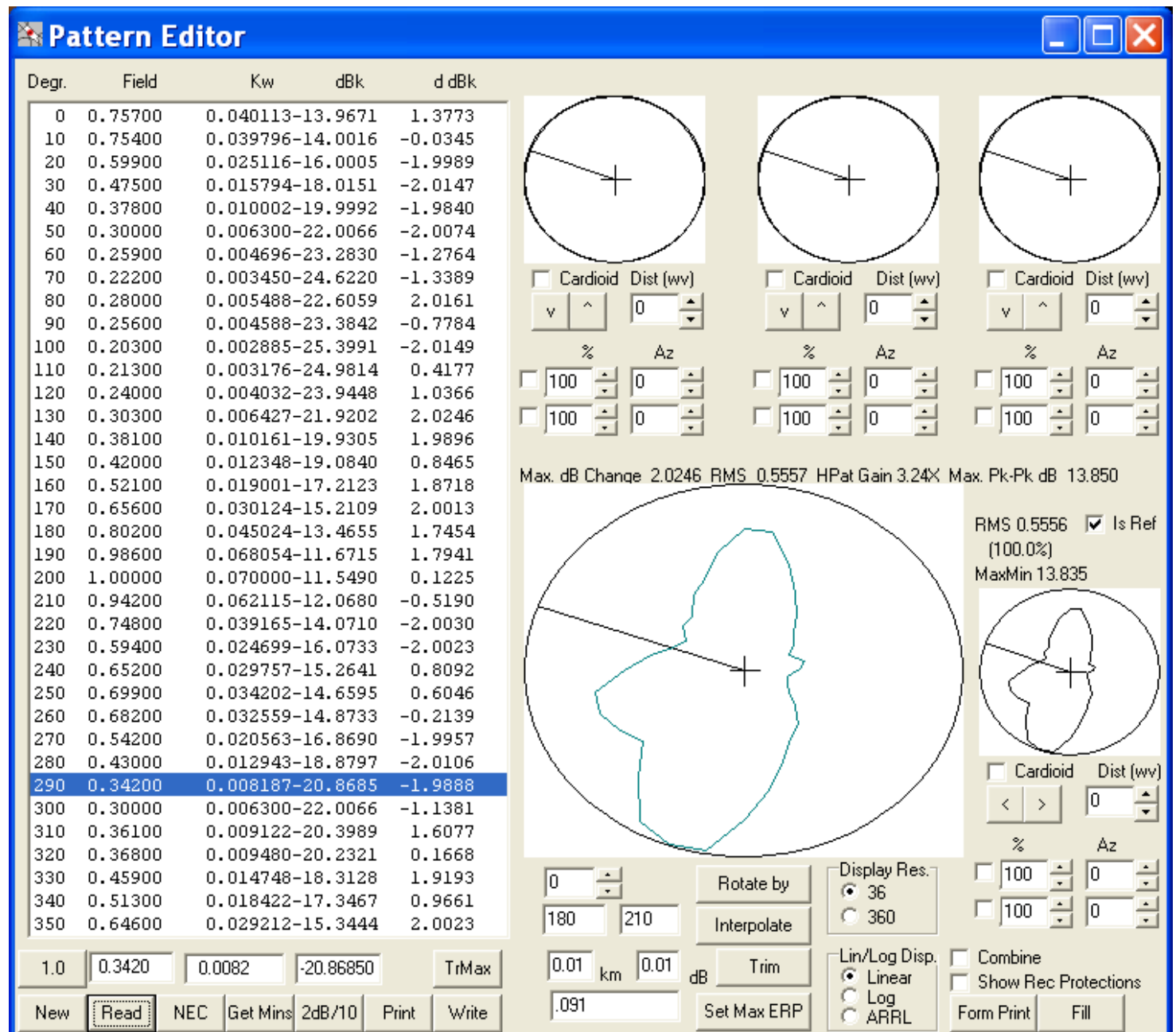


City coverage

The city of license is fully surrounded by the 60 dBu contour of the proposed facility.



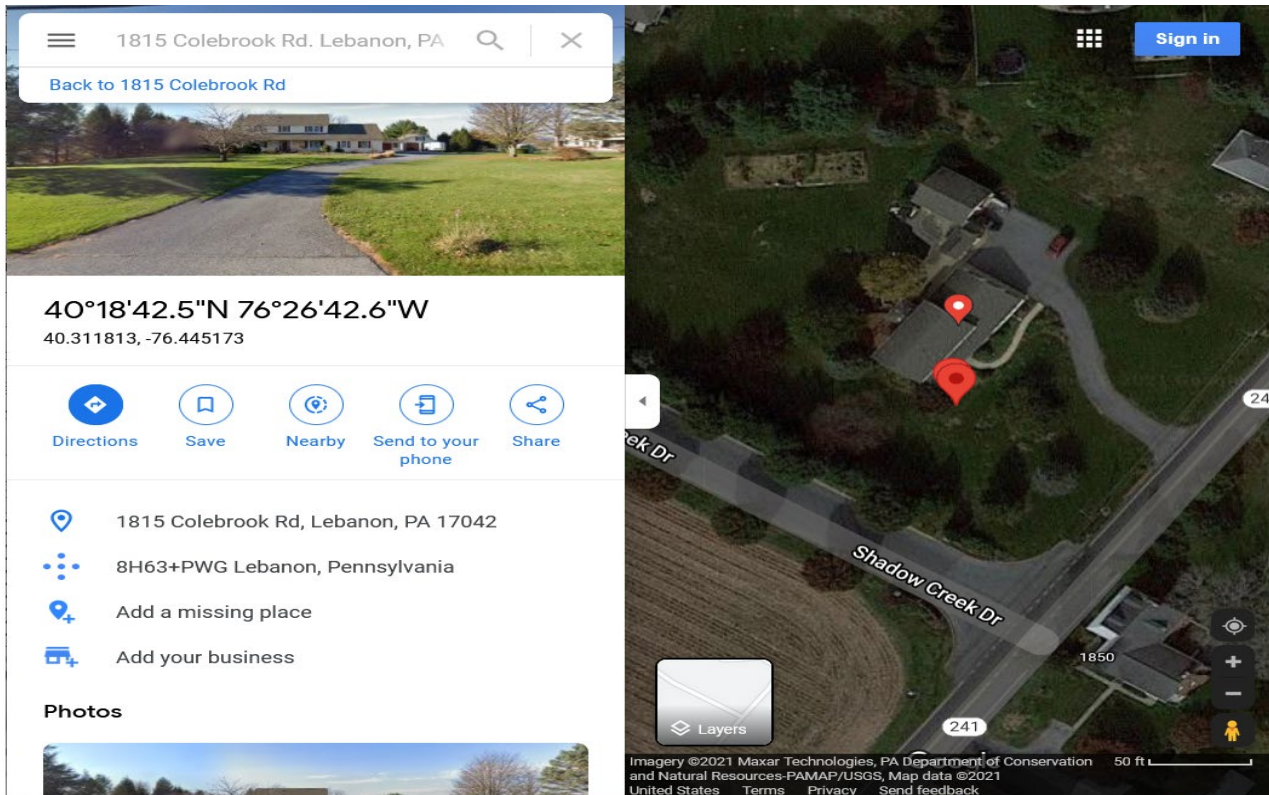
Pattern Showing



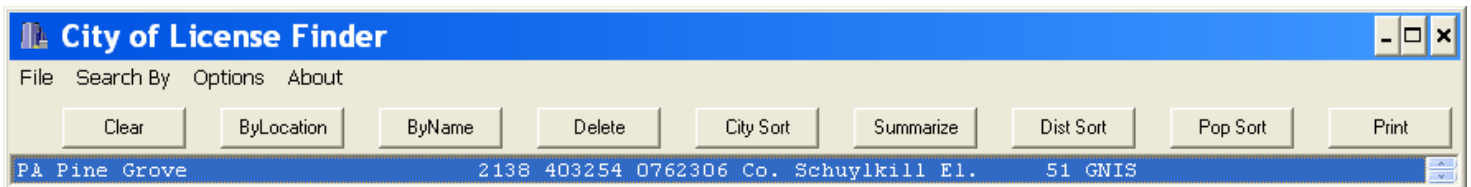
To the extent possible with field values with 3 places after the decimal, the pattern conforms to the 2 dB/10 degree and the 15 dB max/min rules.

Localism Showing

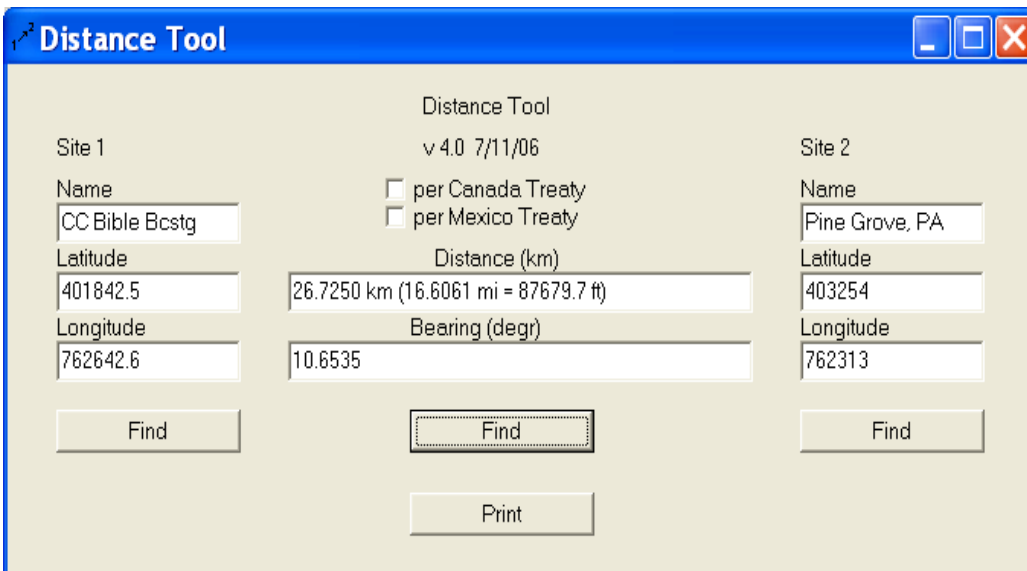
The formal address of Calvary Chapel Bible Broadcasting is 1815 Colebrook Rd. Lebanon, PA 17042



The reference coordinates of the community of license (Pine Grove) are 403254 762313



The distance is thus 16.6 miles, which is less than 25 miles.



An alternative determination of the localism is this plot map of the board members homes and a 25 mile circle around the city of license. Those three board members are:

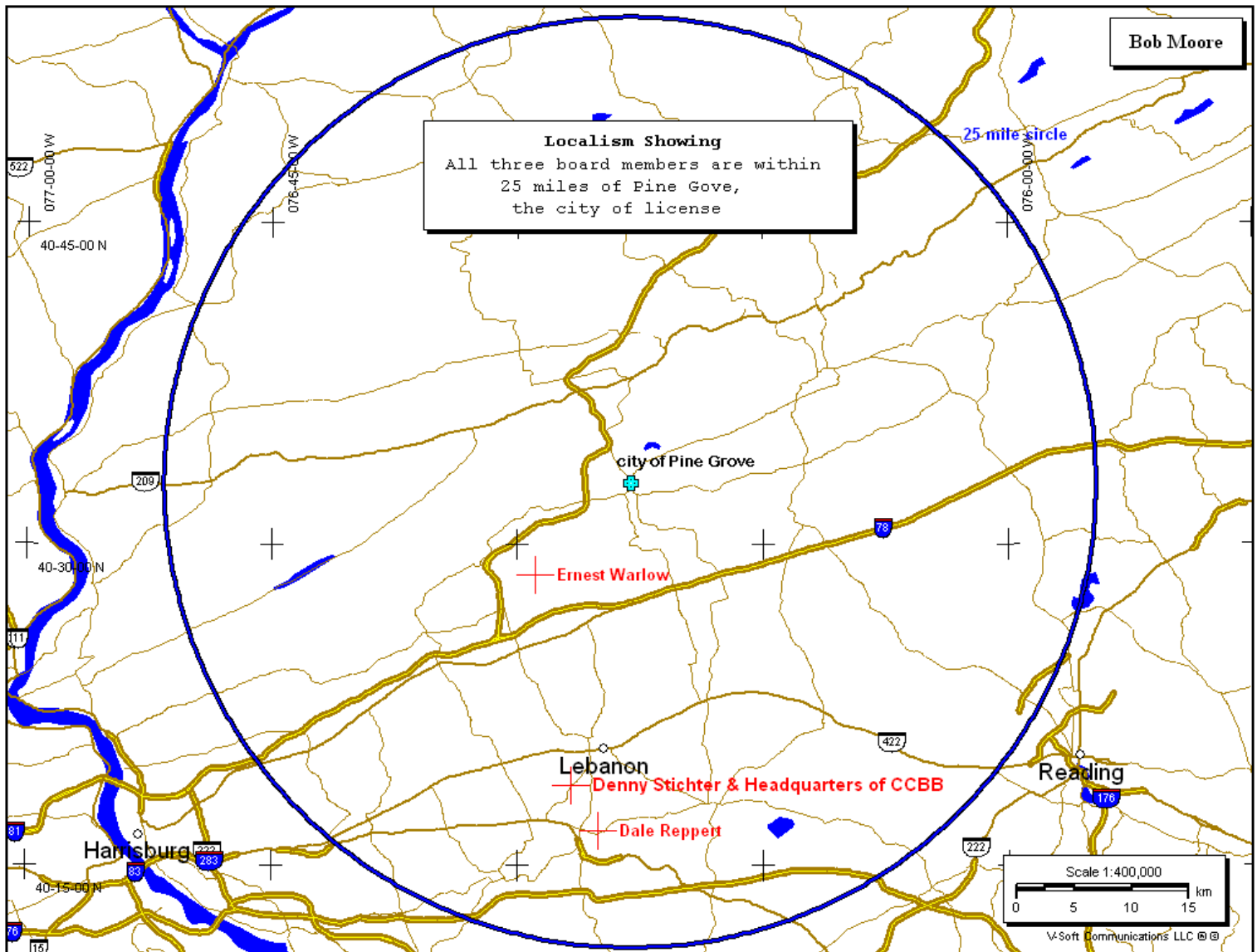
Ernest Warlow
474 Monroe Valley Drive
Fredericksburg, PA 17026
+1 (717) 507-7172
warlowe@comcast.net

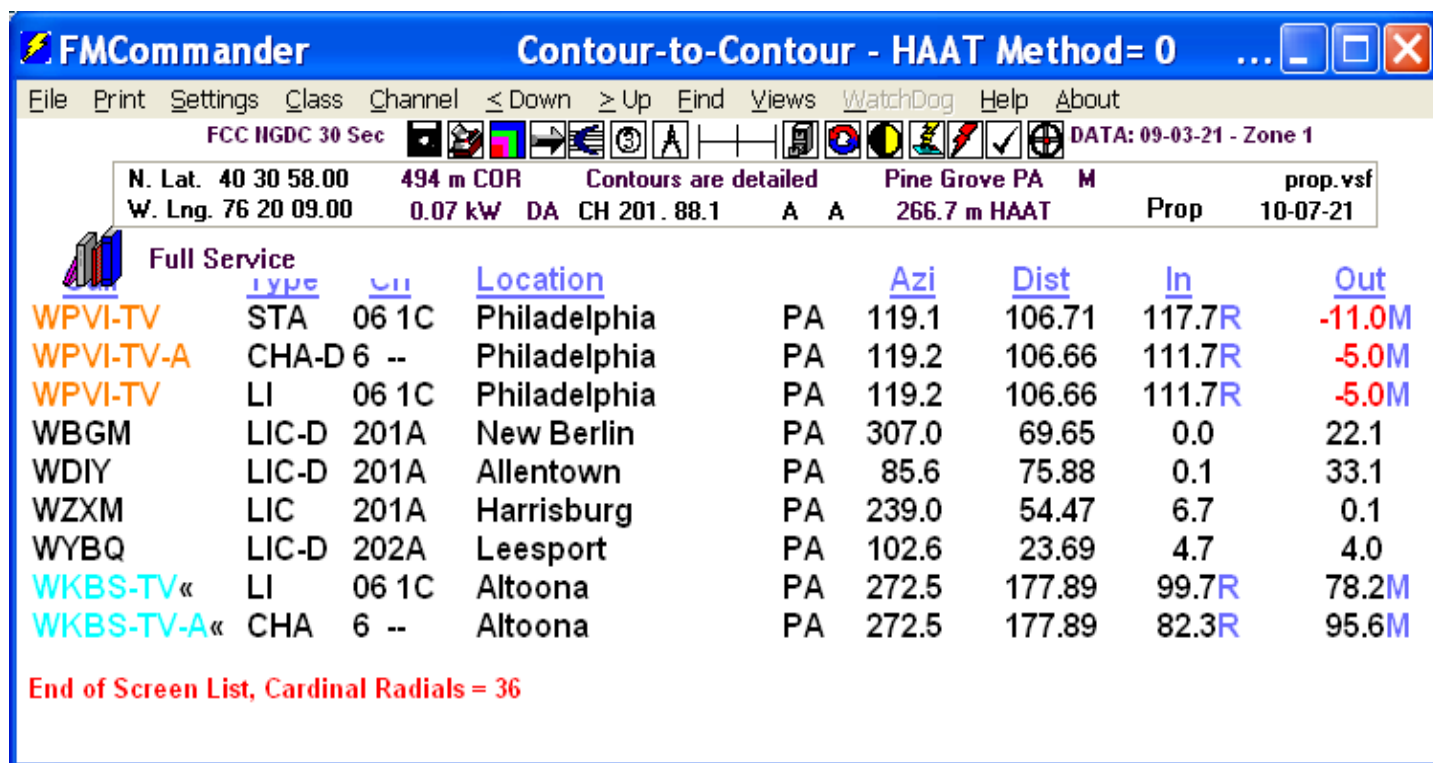
Denny Stichter
1815 Colebrook Road
Lebanon, PA 17042
+1 (707) 507-5633
333dws@gmail.com

47 Freeman Drive
Lebanon, PA 17042
+1 (717) 269-2022
dlreppert@comcast.net

Dale Reppert

FM Interference





This tabulation shows minimal distances at all azimuths, not just along the straight lines.

Exhibit 15

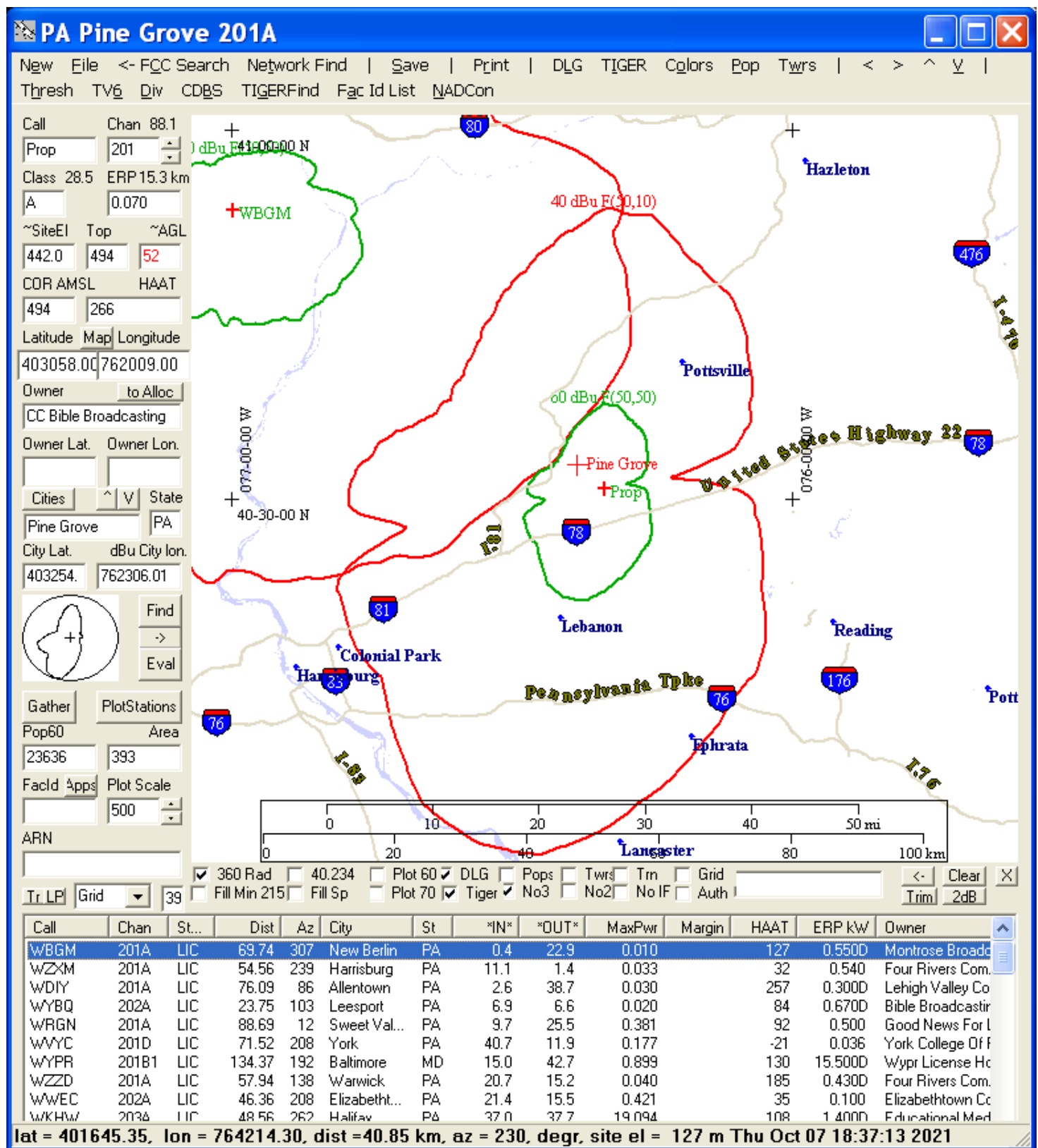
Calvary Chapel Bible Broadcasting

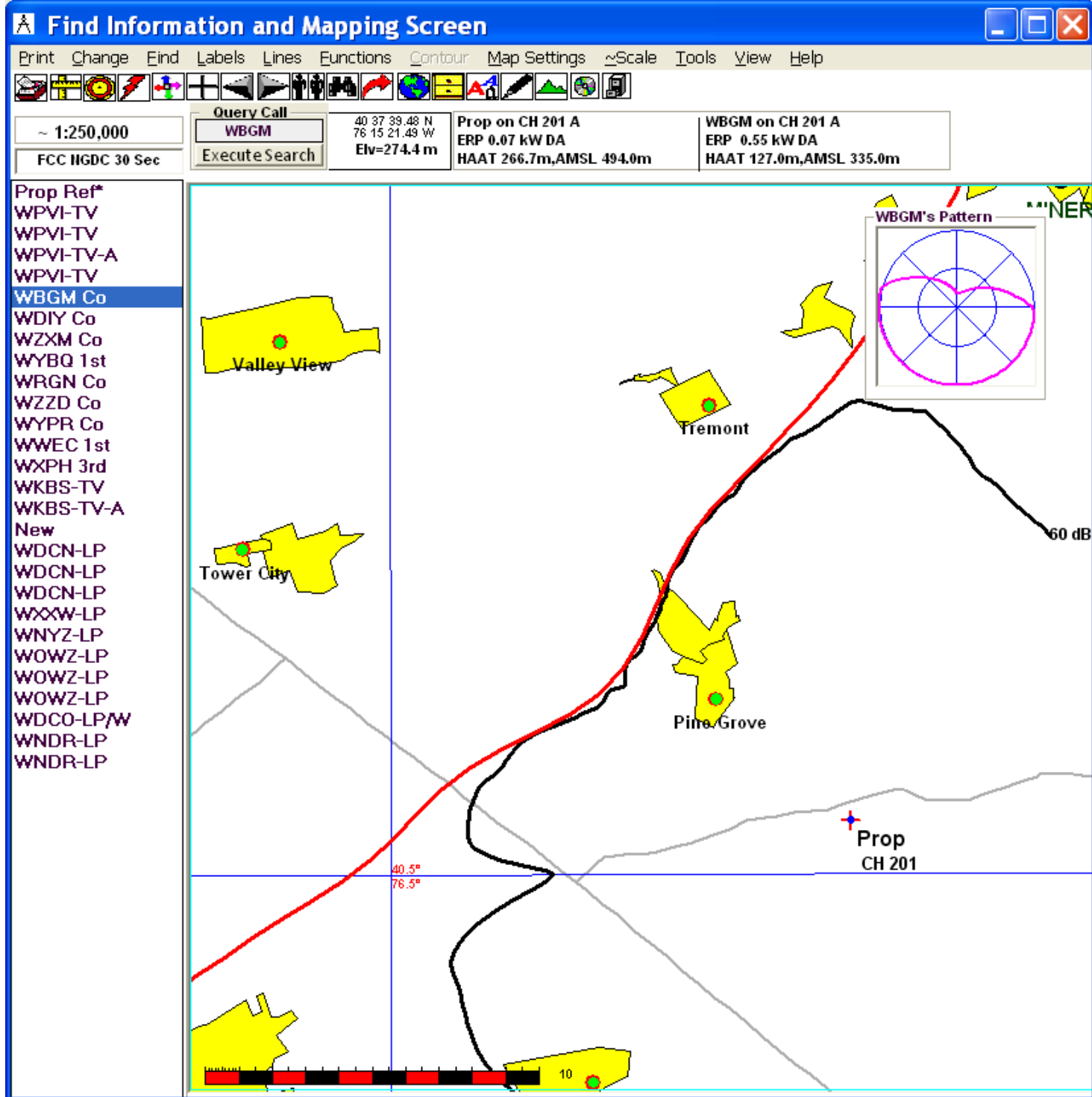
Reference 201A ERP 0.070 kW HAAT 266 m COR 494 m AMSL
 403058.00 N 88.1 MHz Average protected F(50,50) 15.3 km
 762009.00 W Pine Grove, PA

ChnCl	Call	Stat	Azi	Dist	FacId	Lat	*IN*	*OUT*	
	Pwr	COR	HAAT		ARN	Lon	Req.	Margin	
	Owner			City		St			
201A	WBGM	LIC	307	69.74	43663	405327.29	0.43	22.88	See map and FMOver
	0.550D	335	127	BLED19960823KA		765952.89			
	Montrose Broadcastin			New Berlin		PA			
201A	WZXM	LIC	239	54.56	66520	401544.30	11.08	1.40	See map and FMOver
	0.540	178	32	BLED19950918KD		765309.91			
	Four Rivers Communit			Harrisburg		PA			
201A	WDIY	LIC	86	76.09	36992	403352.40	2.55	38.65	See map
	0.300D	408	257	BLED20151123CUH		752623.71			
	Lehigh Valley Commun			Allentown		PA			
202A	WYBQ	LIC	103	23.75	175920	402809.30	6.90	6.63	See map
	0.670D	240	84	BLED20130808AAO		760344.81			
	Bible Broadcasting N			Leesport		PA			
201A	WRGN	LIC	12	88.69	24681	411754.20	9.66	25.53	See map
	0.500	503	92	BLED19890518KA		760726.70			
	Good News For Life			Sweet Valley		PA			

This lower tabulation shows only direct line overlaps.

Prop vs WBGM





10-07-2021

Terrain Data: FCC NGDC 30 Sec

FMOver Analysis

Prop

WBGM BLED19960823KA

Channel = 201A

Max ERP = 0.07 kW

RCAMSL = 494 m

N. Lat. 40 30 58.00

W. Lng. 76 20 09.00

Protected

60 dBu

Channel = 201A

Max ERP = 0.55 kW

RCAMSL = 335 m

N. Lat. 40 53 27.30

W. Lng. 76 59 52.90

Interfering

40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
260.0	000.0325	0144.8	009.4	132.7	000.5500	0141.6	063.6	38.62	
261.0	000.0312	0158.5	009.8	132.9	000.5500	0141.5	063.3	38.74	
262.0	000.0299	0177.6	010.3	133.2	000.5500	0141.4	062.8	38.89	
263.0	000.0286	0199.6	010.7	133.4	000.5500	0141.3	062.4	39.03	
264.0	000.0274	0218.5	011.1	133.5	000.5500	0141.3	062.0	39.16	
265.0	000.0262	0235.1	011.4	133.6	000.5500	0141.3	061.7	39.28	
266.0	000.0250	0247.8	011.5	133.6	000.5500	0141.3	061.4	39.36	
267.0	000.0238	0255.6	011.6	133.5	000.5500	0141.3	061.2	39.43	
268.0	000.0227	0261.3	011.6	133.4	000.5500	0141.3	061.1	39.48	
269.0	000.0216	0267.0	011.6	133.2	000.5500	0141.4	061.0	39.53	
270.0	000.0205	0272.6	011.5	133.1	000.5500	0141.4	060.8	39.58	
271.0	000.0197	0277.0	011.5	132.9	000.5500	0141.5	060.7	39.63	
272.0	000.0189	0279.2	011.5	132.7	000.5500	0141.6	060.6	39.66	
273.0	000.0181	0281.4	011.4	132.6	000.5500	0141.8	060.6	39.70	
274.0	000.0173	0283.8	011.3	132.4	000.5500	0142.0	060.5	39.73	
275.0	000.0165	0284.8	011.2	132.2	000.5500	0142.3	060.4	39.76	
276.0	000.0158	0283.4	011.0	131.9	000.5500	0142.8	060.4	39.79	
277.0	000.0150	0278.8	010.8	131.7	000.5500	0143.3	060.5	39.79	
278.0	000.0143	0277.0	010.7	131.4	000.5500	0143.8	060.5	39.81	
279.0	000.0136	0279.4	010.6	131.2	000.5500	0144.3	060.5	39.84	
280.0	000.0130	0282.8	010.5	131.0	000.5500	0144.8	060.5	39.89	
281.0	000.0124	0284.6	010.4	130.9	000.5500	0145.4	060.4	39.93	
282.0	000.0119	0283.2	010.3	130.7	000.5500	0146.0	060.5	39.95	
283.0	000.0114	0282.0	010.2	130.4	000.5500	0146.6	060.5	39.97	
284.0	000.0109	0279.3	010.0	130.2	000.5500	0147.3	060.6	39.98	
285.0	000.0104	0277.0	009.8	130.0	000.5500	0147.9	060.6	40.00	
286.0	000.0100	0271.3	009.6	129.8	000.5500	0148.7	060.8	39.99	
287.0	000.0095	0264.8	009.4	129.5	000.5500	0149.3	060.9	39.97	
288.0	000.0090	0259.9	009.2	129.3	000.5500	0149.9	061.0	39.96	
289.0	000.0086	0256.9	009.0	129.1	000.5500	0150.4	061.2	39.95	
290.0	000.0082	0254.7	008.8	128.9	000.5500	0150.9	061.3	39.94	
291.0	000.0080	0250.6	008.7	128.8	000.5500	0151.4	061.3	39.93	
292.0	000.0078	0245.6	008.6	128.6	000.5500	0151.8	061.4	39.92	
293.0	000.0076	0240.4	008.4	128.4	000.5500	0152.1	061.5	39.90	
294.0	000.0074	0237.7	008.3	128.3	000.5500	0152.4	061.6	39.90	
295.0	000.0072	0238.7	008.3	128.1	000.5500	0152.6	061.6	39.91	
296.0	000.0070	0243.3	008.3	128.0	000.5500	0152.8	061.5	39.93	
297.0	000.0068	0246.4	008.3	127.9	000.5500	0152.9	061.5	39.95	
298.0	000.0067	0245.3	008.2	127.7	000.5500	0153.1	061.6	39.94	
299.0	000.0065	0240.6	008.1	127.6	000.5500	0153.2	061.7	39.91	
300.0	000.0063	0236.2	007.9	127.4	000.5500	0153.3	061.8	39.87	

{01567375-1 }

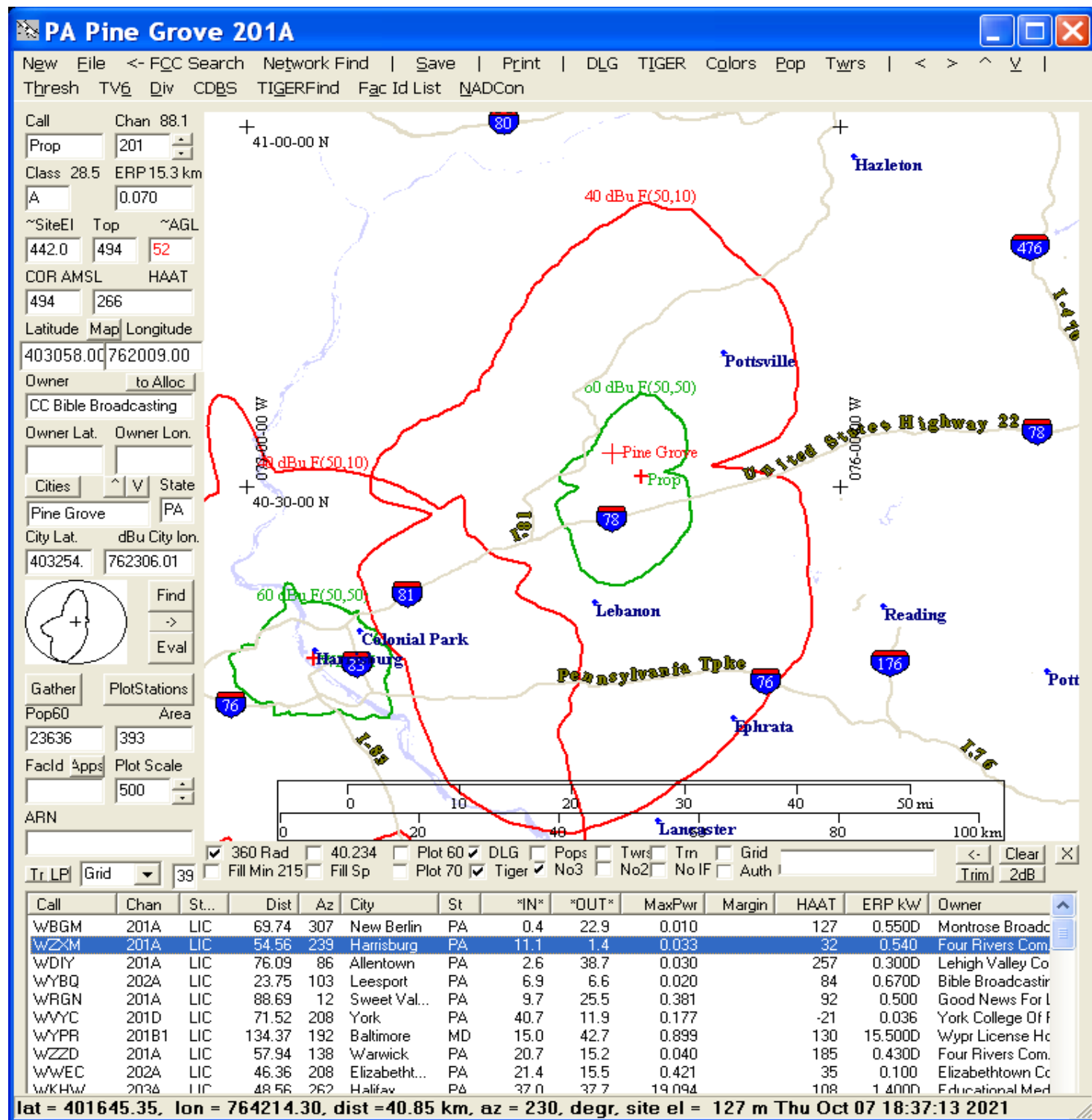
301.0	000.0066	0234.8	008.0		127.3	000.5500	0153.3	061.7	39.90
302.0	000.0068	0235.6	008.1		127.2	000.5500	0153.3	061.6	39.94
303.0	000.0071	0235.5	008.2		127.1	000.5500	0153.3	061.5	39.97
304.0	000.0074	0233.3	008.2		126.9	000.5500	0153.3	061.4	39.99
305.0	000.0077	0229.2	008.2		126.8	000.5500	0153.3	061.4	40.00
306.0	000.0079	0223.5	008.2		126.7	000.5500	0153.2	061.5	39.99
307.0	000.0082	0217.1	008.1		126.5	000.5500	0153.1	061.5	39.96
308.0	000.0085	0211.3	008.1		126.4	000.5500	0153.0	061.5	39.94
309.0	000.0088	0208.4	008.1		126.3	000.5500	0152.9	061.5	39.94
310.0	000.0091	0208.6	008.2		126.1	000.5500	0152.7	061.5	39.96
311.0	000.0092	0210.8	008.3		126.0	000.5500	0152.6	061.4	39.97
312.0	000.0092	0212.9	008.3		125.8	000.5500	0152.4	061.4	39.97
313.0	000.0092	0214.2	008.4		125.7	000.5500	0152.2	061.4	39.97
314.0	000.0093	0214.8	008.4		125.6	000.5500	0151.9	061.4	39.96
315.0	000.0093	0216.1	008.4		125.4	000.5500	0151.7	061.3	39.95
316.0	000.0093	0218.6	008.5		125.3	000.5500	0151.5	061.3	39.95
317.0	000.0094	0221.8	008.5		125.1	000.5500	0151.3	061.3	39.95
318.0	000.0094	0225.1	008.6		125.0	000.5500	0151.0	061.2	39.95
319.0	000.0095	0227.8	008.7		124.8	000.5500	0150.8	061.2	39.95
320.0	000.0095	0229.9	008.7		124.7	000.5500	0150.5	061.2	39.94
321.0	000.0100	0231.5	008.9		124.5	000.5500	0150.3	061.1	39.96
322.0	000.0104	0233.0	009.0		124.3	000.5500	0150.0	061.0	39.98
323.0	000.0109	0233.4	009.1		124.2	000.5500	0149.8	060.9	39.99
324.0	000.0114	0232.0	009.2		124.0	000.5500	0149.6	060.9	39.99
325.0	000.0120	0228.3	009.2		123.8	000.5500	0149.4	060.9	39.97
326.0	000.0125	0224.7	009.3		123.7	000.5500	0149.3	061.0	39.95
327.0	000.0130	0222.9	009.3		123.5	000.5500	0149.1	061.0	39.94
328.0	000.0136	0223.0	009.4		123.3	000.5500	0149.0	060.9	39.95
329.0	000.0142	0223.9	009.6		123.2	000.5500	0149.0	060.9	39.96
330.0	000.0147	0225.2	009.7		123.0	000.5500	0149.0	060.9	39.97
331.0	000.0151	0227.1	009.8		122.8	000.5500	0149.0	060.8	39.98
332.0	000.0154	0229.1	009.9		122.6	000.5500	0149.1	060.8	39.98
333.0	000.0158	0229.8	010.0		122.4	000.5500	0149.1	060.9	39.98
334.0	000.0162	0229.1	010.0		122.3	000.5500	0149.3	060.9	39.97
335.0	000.0165	0229.4	010.1		122.1	000.5500	0149.4	061.0	39.96
336.0	000.0169	0231.9	010.2		121.9	000.5500	0149.7	061.0	39.97
337.0	000.0173	0234.0	010.3		121.7	000.5500	0149.9	061.0	39.98
338.0	000.0177	0234.5	010.3		121.5	000.5500	0150.1	061.0	39.97
339.0	000.0181	0233.8	010.4		121.4	000.5500	0150.3	061.1	39.96
340.0	000.0184	0232.8	010.4		121.2	000.5500	0150.5	061.2	39.94
341.0	000.0194	0232.7	010.5		121.0	000.5500	0150.8	061.2	39.95
342.0	000.0204	0233.2	010.7		120.8	000.5500	0151.2	061.2	39.96
343.0	000.0214	0232.9	010.8		120.6	000.5500	0151.6	061.3	39.97
344.0	000.0224	0231.9	010.9		120.4	000.5500	0151.9	061.3	39.97
345.0	000.0235	0230.8	011.0		120.2	000.5500	0152.3	061.4	39.97
346.0	000.0246	0229.6	011.1		120.0	000.5500	0152.7	061.4	39.96
347.0	000.0257	0227.4	011.2		119.8	000.5500	0153.0	061.5	39.94
348.0	000.0268	0226.3	011.2		119.6	000.5500	0153.3	061.6	39.93
349.0	000.0280	0226.1	011.4		119.5	000.5500	0153.6	061.7	39.92
350.0	000.0292	0227.6	011.5		119.2	000.5500	0153.9	061.7	39.92
351.0	000.0302	0227.7	011.6		119.0	000.5500	0154.2	061.8	39.90
352.0	000.0312	0226.2	011.7		118.9	000.5500	0154.5	062.0	39.87
353.0	000.0323	0224.6	011.7		118.7	000.5500	0154.7	062.1	39.84
354.0	000.0333	0224.6	011.8		118.6	000.5500	0155.0	062.2	39.81
355.0	000.0344	0225.4	011.9		118.4	000.5500	0155.3	062.3	39.79
356.0	000.0355	0226.6	012.0		118.2	000.5500	0155.7	062.4	39.77
357.0	000.0367	0227.8	012.1		118.0	000.5500	0156.1	062.5	39.75
358.0	000.0378	0229.9	012.3		117.8	000.5500	0156.5	062.7	39.74

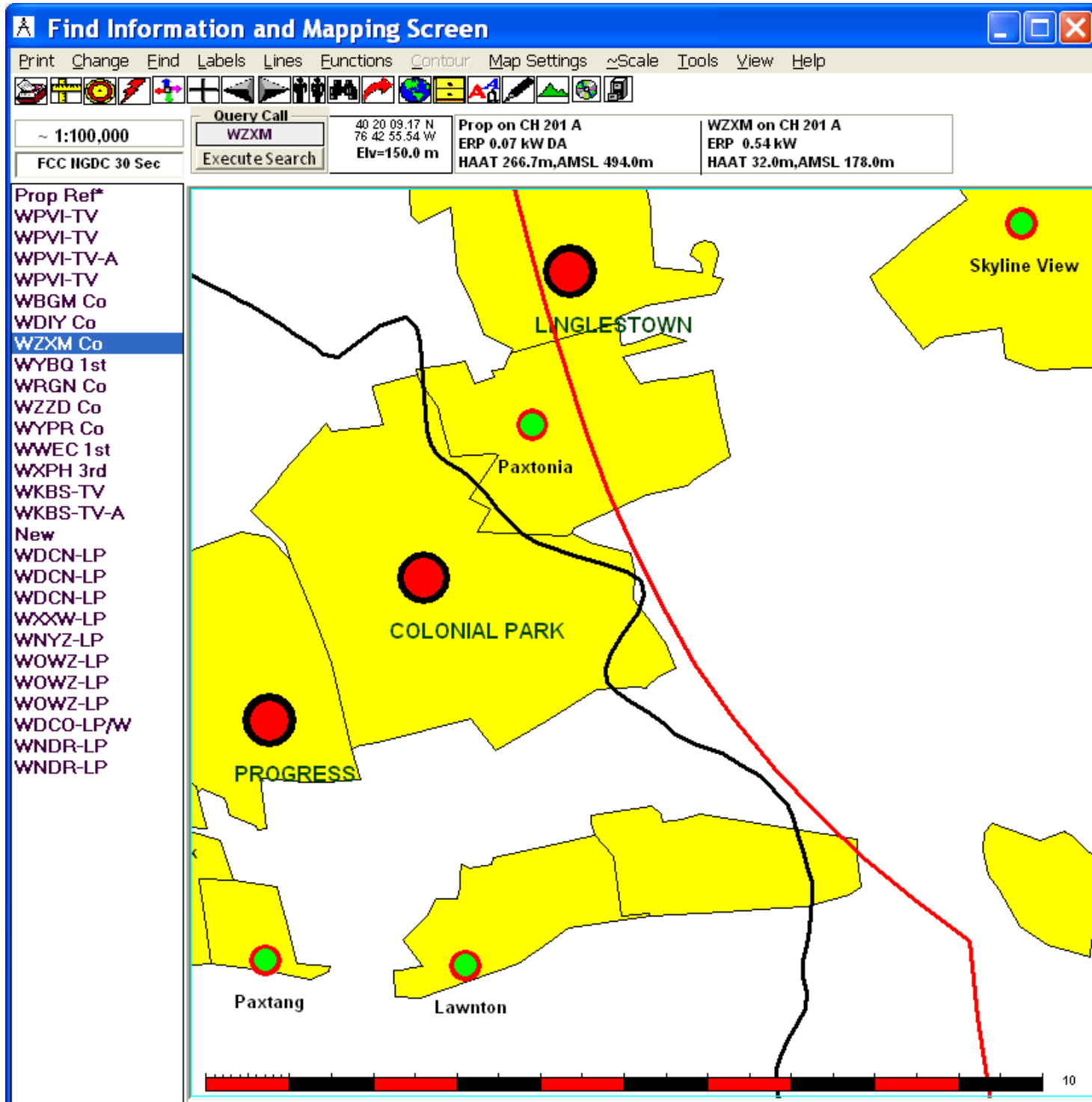
{01567375-1 }

359.0	000.0390	0231.8	012.4		117.6	000.5500	0156.9	062.8	39.71
000.0	000.0401	0233.1	012.5		117.4	000.5500	0157.2	062.9	39.68
001.0	000.0401	0234.5	012.6		117.2	000.5500	0157.4	063.1	39.63
002.0	000.0401	0233.4	012.5		117.2	000.5500	0157.5	063.3	39.57
003.0	000.0400	0231.6	012.5		117.1	000.5500	0157.5	063.5	39.49
004.0	000.0400	0229.6	012.4		117.1	000.5500	0157.6	063.7	39.42
005.0	000.0399	0228.3	012.4		117.1	000.5500	0157.7	064.0	39.35
006.0	000.0399	0227.8	012.4		117.0	000.5500	0157.8	064.2	39.29
007.0	000.0399	0227.9	012.4		116.9	000.5500	0157.9	064.4	39.23
008.0	000.0398	0228.8	012.4		116.8	000.5500	0158.0	064.6	39.17
009.0	000.0398	0229.6	012.4		116.8	000.5500	0158.1	064.8	39.11
010.0	000.0398	0230.2	012.4		116.7	000.5500	0158.2	065.0	39.04
011.0	000.0381	0230.7	012.3		116.7	000.5500	0158.1	065.2	38.96
012.0	000.0365	0230.0	012.2		116.8	000.5500	0158.1	065.4	38.88
013.0	000.0350	0230.3	012.1		116.9	000.5500	0158.0	065.7	38.79
014.0	000.0335	0229.7	011.9		116.9	000.5500	0157.9	065.9	38.71
015.0	000.0320	0229.3	011.8		117.0	000.5500	0157.8	066.2	38.63
016.0	000.0305	0229.8	011.7		117.1	000.5500	0157.7	066.4	38.55
017.0	000.0291	0229.2	011.5		117.2	000.5500	0157.5	066.6	38.47
018.0	000.0277	0228.1	011.4		117.3	000.5500	0157.3	066.8	38.38
019.0	000.0264	0226.6	011.2		117.4	000.5500	0157.2	067.1	38.30
020.0	000.0251	0226.8	011.1		117.5	000.5500	0157.0	067.3	38.22

-----|-----

Prop vs WZXM





10-07-2021

Terrain Data: FCC NGDC 30 Sec

FMOver Analysis

WZXM BLED19950918KD

Prop

Channel = 201A
 Max ERP = 0.54 kW
 RCAMSL = 178 m
 N. Lat. 40 15 44.30
 W. Lng. 76 53 09.90
 Protected
 60 dBu

Channel = 201A
 Max ERP = 0.07 kW
 RCAMSL = 494 m
 N. Lat. 40 30 58.00
 W. Lng. 76 20 09.00
 Interfering
 40 dBu

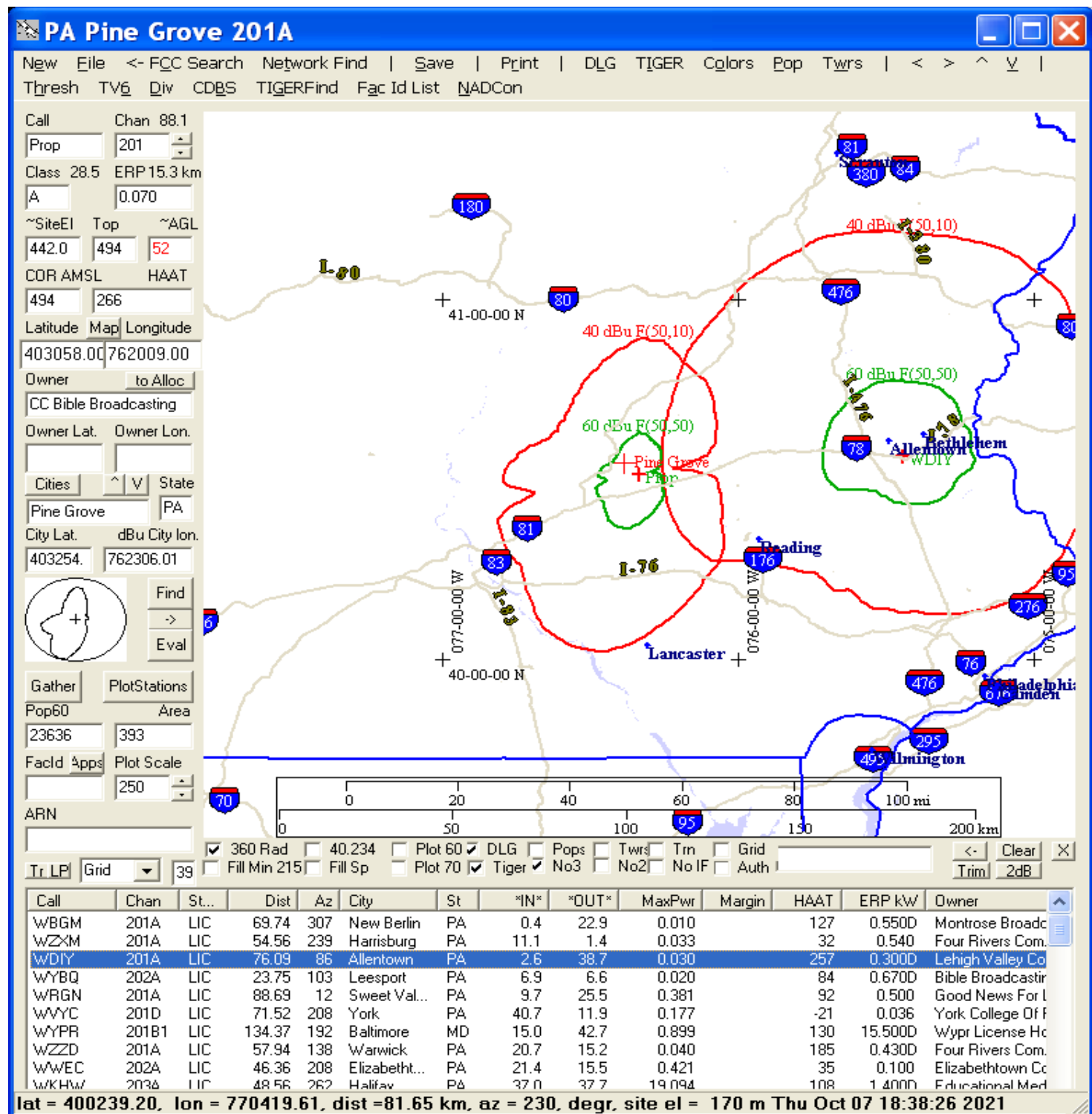
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
030.0	000.5400	0004.3	008.7	244.1	000.0315	0284.4	047.0	38.54	
031.0	000.5400	0005.2	008.7	243.9	000.0314	0285.2	047.0	38.59	
032.0	000.5400	0006.4	008.7	243.7	000.0314	0285.8	046.9	38.64	
033.0	000.5400	0007.7	008.7	243.6	000.0313	0286.6	046.8	38.68	
034.0	000.5400	0009.9	008.7	243.4	000.0312	0287.2	046.7	38.72	
035.0	000.5400	0013.7	008.7	243.3	000.0311	0287.9	046.7	38.76	
036.0	000.5400	0019.1	008.7	243.1	000.0311	0288.6	046.6	38.80	
037.0	000.5400	0024.9	008.7	242.9	000.0310	0289.3	046.5	38.84	
038.0	000.5400	0030.7	008.8	242.8	000.0309	0289.9	046.4	38.91	
039.0	000.5400	0035.3	009.4	242.9	000.0310	0289.3	045.8	39.15	
040.0	000.5400	0037.4	009.7	242.9	000.0310	0289.6	045.4	39.29	
041.0	000.5400	0037.4	009.6	242.7	000.0309	0290.4	045.4	39.33	
042.0	000.5400	0036.4	009.5	242.4	000.0308	0291.6	045.4	39.33	
043.0	000.5400	0035.3	009.4	242.2	000.0307	0292.7	045.5	39.31	
044.0	000.5400	0034.2	009.2	241.9	000.0306	0293.7	045.6	39.29	
045.0	000.5400	0033.2	009.1	241.7	000.0304	0294.8	045.7	39.27	
046.0	000.5400	0032.2	009.0	241.4	000.0303	0295.8	045.8	39.26	
047.0	000.5400	0031.2	008.8	241.2	000.0302	0296.8	045.9	39.24	
048.0	000.5400	0030.5	008.8	241.0	000.0302	0297.6	045.9	39.23	
049.0	000.5400	0030.4	008.7	240.8	000.0301	0298.5	045.9	39.25	
050.0	000.5400	0030.6	008.8	240.6	000.0300	0299.3	045.8	39.29	
051.0	000.5400	0031.0	008.8	240.4	000.0299	0300.1	045.8	39.33	
052.0	000.5400	0031.3	008.9	240.3	000.0298	0300.8	045.7	39.37	
053.0	000.5400	0031.5	008.9	240.1	000.0298	0301.6	045.7	39.40	
054.0	000.5400	0031.6	008.9	239.9	000.0297	0302.5	045.6	39.42	
055.0	000.5400	0031.7	008.9	239.7	000.0296	0303.3	045.6	39.44	
056.0	000.5400	0031.8	008.9	239.5	000.0295	0304.2	045.6	39.46	
057.0	000.5400	0032.0	008.9	239.3	000.0294	0305.0	045.5	39.49	
058.0	000.5400	0032.4	009.0	239.1	000.0293	0305.9	045.5	39.52	
059.0	000.5400	0033.0	009.1	238.9	000.0292	0306.7	045.4	39.57	
060.0	000.5400	0033.9	009.2	238.7	000.0290	0307.5	045.3	39.63	
061.0	000.5400	0035.1	009.3	238.5	000.0289	0308.4	045.1	39.69	
062.0	000.5400	0036.3	009.5	238.3	000.0288	0309.3	045.0	39.77	
063.0	000.5400	0037.6	009.7	238.0	000.0287	0310.2	044.8	39.84	
064.0	000.5400	0038.9	009.8	237.8	000.0286	0311.2	044.7	39.92	
065.0	000.5400	0039.8	010.0	237.6	000.0285	0312.2	044.6	39.96	
066.0	000.5400	0039.5	009.9	237.3	000.0283	0313.0	044.6	39.95	
067.0	000.5400	0038.2	009.8	237.2	000.0283	0313.6	044.8	39.87	
068.0	000.5400	0036.3	009.5	237.0	000.0282	0314.2	045.1	39.76	
069.0	000.5400	0034.6	009.3	236.9	000.0281	0314.7	045.4	39.66	
070.0	000.5400	0033.6	009.2	236.7	000.0280	0315.3	045.5	39.60	
071.0	000.5400	0033.3	009.1	236.5	000.0279	0316.0	045.6	39.58	

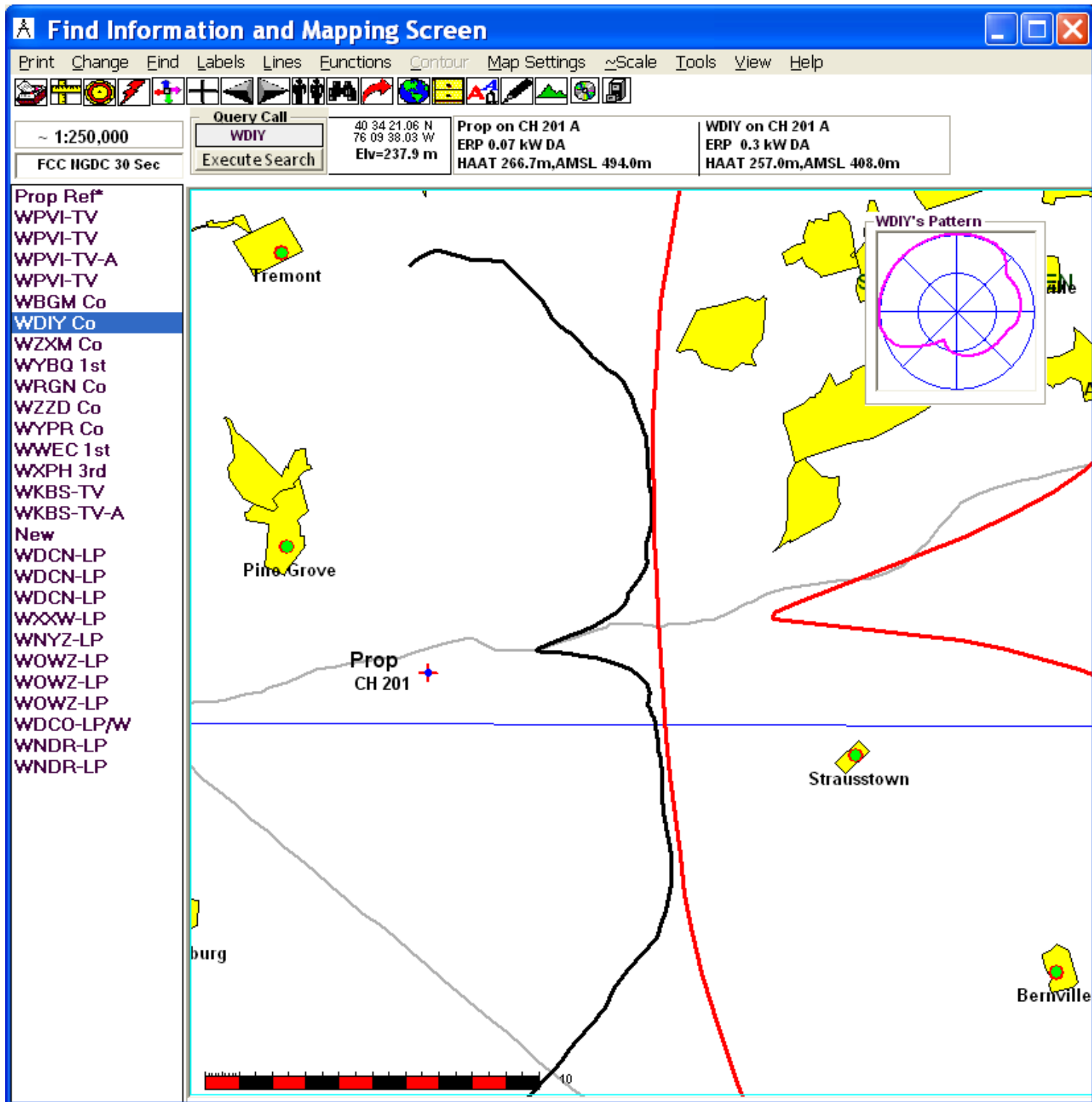
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072.0	000.5400	0034.1	009.2		236.3	000.0278	0316.7	045.6	39.60
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074.0	000.5400	0036.1	009.5		235.8	000.0276	0318.1	045.4	39.67
075.0	000.5400	0037.2	009.6		235.5	000.0274	0318.8	045.3	39.71
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077.0	000.5400	0039.5	009.9		235.0	000.0272	0320.1	045.2	39.77
078.0	000.5400	0041.8	010.2		234.7	000.0270	0320.9	045.0	39.85
079.0	000.5400	0043.4	010.4		234.3	000.0268	0321.5	044.8	39.89
080.0	000.5400	0045.1	010.6		234.0	000.0267	0322.1	044.7	39.92
081.0	000.5400	0046.2	010.8		233.7	000.0265	0322.6	044.7	39.93
082.0	000.5400	0047.2	010.9		233.4	000.0264	0323.0	044.7	39.92
083.0	000.5400	0047.7	010.9		233.2	000.0263	0323.4	044.7	39.90
084.0	000.5400	0047.9	011.0		233.0	000.0261	0323.7	044.8	39.86
085.0	000.5400	0048.2	011.0		232.7	000.0260	0324.0	044.9	39.82
086.0	000.5400	0048.5	011.0		232.5	000.0259	0324.3	045.0	39.78
087.0	000.5400	0049.0	011.1		232.2	000.0258	0324.5	045.0	39.74
088.0	000.5400	0048.9	011.1		232.1	000.0257	0324.7	045.1	39.68
089.0	000.5400	0048.8	011.1		231.9	000.0256	0324.9	045.3	39.61
090.0	000.5400	0048.6	011.1		231.7	000.0255	0325.0	045.4	39.55
091.0	000.5400	0048.4	011.0		231.5	000.0254	0325.1	045.5	39.48
092.0	000.5400	0048.0	011.0		231.4	000.0254	0325.2	045.7	39.40
093.0	000.5400	0048.1	011.0		231.2	000.0253	0325.3	045.8	39.34
094.0	000.5400	0048.6	011.0		231.0	000.0252	0325.4	045.9	39.29
095.0	000.5400	0048.7	011.1		230.8	000.0251	0325.4	046.0	39.23
096.0	000.5400	0048.0	011.0		230.7	000.0250	0325.4	046.2	39.14
097.0	000.5400	0047.2	010.9		230.6	000.0250	0325.5	046.4	39.05
098.0	000.5400	0046.7	010.8		230.5	000.0250	0325.5	046.6	38.97
099.0	000.5400	0046.4	010.8		230.4	000.0249	0325.5	046.8	38.90
100.0	000.5400	0046.7	010.8		230.2	000.0248	0325.5	046.9	38.84
101.0	000.5400	0047.3	010.9		230.0	000.0247	0325.5	047.0	38.78
102.0	000.5400	0047.4	010.9		229.8	000.0249	0325.6	047.1	38.76
103.0	000.5400	0046.9	010.8		229.8	000.0250	0325.6	047.3	38.70
104.0	000.5400	0046.3	010.8		229.7	000.0251	0325.6	047.5	38.64
105.0	000.5400	0045.6	010.7		229.6	000.0252	0325.6	047.7	38.57
106.0	000.5400	0045.5	010.7		229.5	000.0253	0325.6	047.9	38.53
107.0	000.5400	0045.5	010.7		229.4	000.0255	0325.6	048.1	38.49
108.0	000.5400	0045.7	010.7		229.3	000.0256	0325.5	048.2	38.47
109.0	000.5400	0046.4	010.8		229.1	000.0259	0325.5	048.3	38.47
110.0	000.5400	0047.5	010.9		228.8	000.0262	0325.5	048.4	38.48

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Prop vs WDIY





10-07-2021 Terrain Data: FCC NGDC 30 Sec FMOver Analysis

Prop

WDIY BLED20151123CUH

Channel = 201A
Max ERP = 0.07 kW
RCAMSL = 494 m
N. Lat. 40 30 58.00
W. Lng. 76 20 09.00
Protected
60 dBu

Channel = 201A
Max ERP = 0.3 kW
RCAMSL = 408 m
N. Lat. 40 33 52.40
W. Lng. 75 26 23.70
Interfering
40 dBu

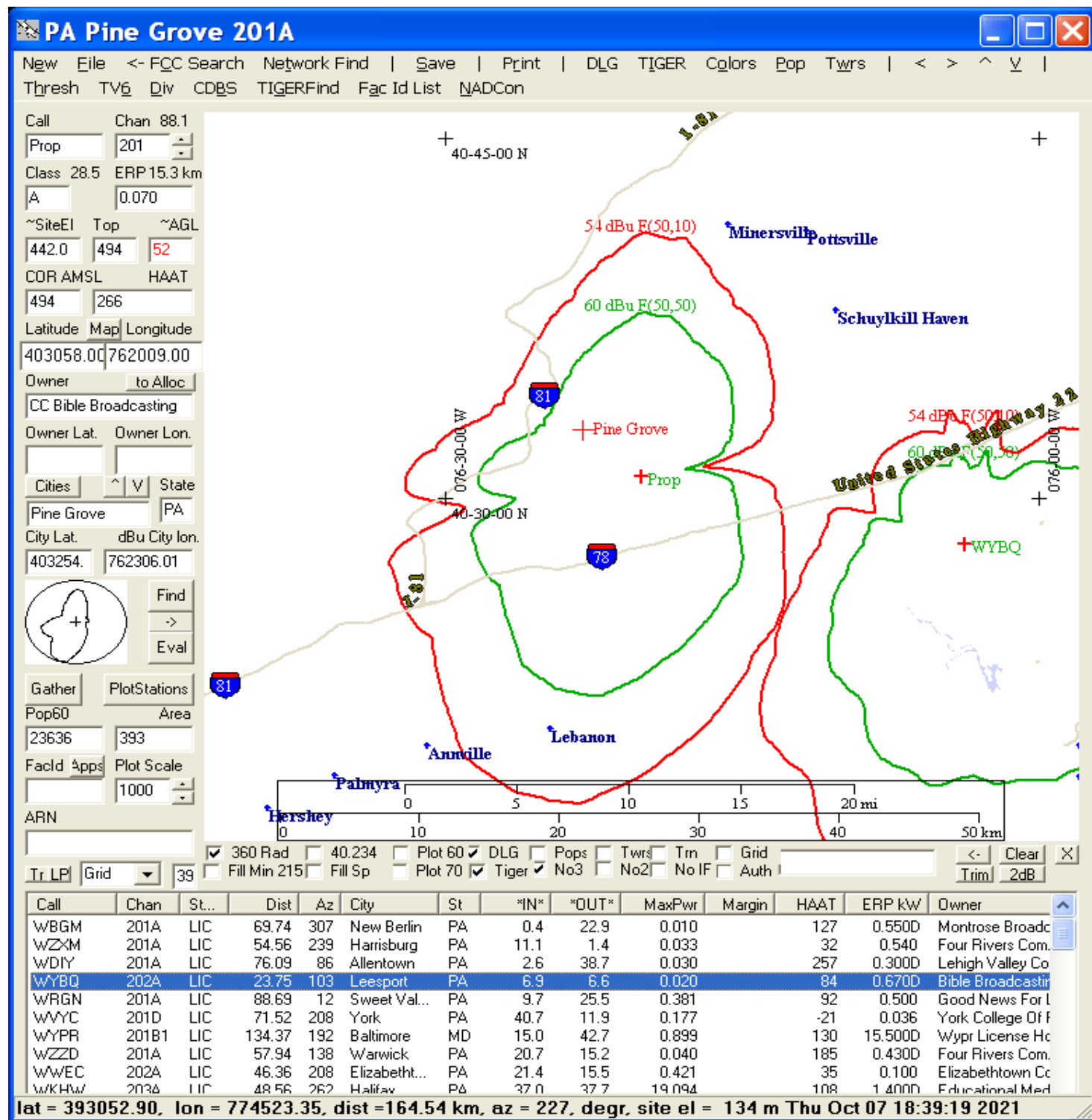
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
020.0	000.0251	0226.8	011.1	274.3	000.3000	0285.9	072.0	38.92	
021.0	000.0241	0228.6	011.0	274.2	000.3000	0285.9	071.9	38.98	
022.0	000.0231	0231.7	011.0	274.1	000.3000	0285.9	071.7	39.04	
023.0	000.0221	0235.7	010.9	274.0	000.3000	0285.9	071.5	39.10	
024.0	000.0211	0237.7	010.9	273.9	000.3000	0285.9	071.4	39.16	
025.0	000.0202	0238.7	010.8	273.8	000.3000	0285.9	071.2	39.21	
026.0	000.0193	0240.2	010.7	273.7	000.3000	0286.0	071.1	39.25	
027.0	000.0184	0242.7	010.6	273.6	000.3000	0286.0	070.9	39.30	
028.0	000.0175	0246.6	010.6	273.5	000.3000	0286.0	070.8	39.36	
029.0	000.0167	0251.6	010.5	273.4	000.3000	0286.0	070.6	39.41	
030.0	000.0158	0255.8	010.5	273.3	000.3000	0286.0	070.5	39.46	
031.0	000.0152	0260.0	010.5	273.2	000.3000	0286.0	070.3	39.52	
032.0	000.0146	0264.5	010.5	273.1	000.3000	0286.0	070.2	39.57	
033.0	000.0139	0269.1	010.4	273.0	000.3000	0286.1	070.0	39.62	
034.0	000.0133	0272.3	010.4	272.9	000.3000	0286.1	069.9	39.67	
035.0	000.0127	0274.0	010.3	272.8	000.3000	0286.1	069.8	39.71	
036.0	000.0122	0275.3	010.2	272.6	000.3000	0286.1	069.7	39.74	
037.0	000.0116	0276.5	010.1	272.5	000.3000	0286.2	069.6	39.77	
038.0	000.0111	0277.5	010.0	272.3	000.3000	0286.2	069.5	39.80	
039.0	000.0105	0278.3	009.9	272.2	000.3000	0286.2	069.5	39.83	
040.0	000.0100	0279.3	009.8	272.0	000.3000	0286.2	069.4	39.85	
041.0	000.0096	0280.6	009.7	271.9	000.3000	0286.2	069.3	39.88	
042.0	000.0092	0281.9	009.6	271.7	000.3000	0286.1	069.3	39.90	
043.0	000.0088	0282.2	009.5	271.6	000.3000	0286.1	069.2	39.92	
044.0	000.0084	0281.6	009.4	271.4	000.3000	0286.0	069.2	39.93	
045.0	000.0080	0280.5	009.3	271.2	000.3000	0285.9	069.1	39.94	
046.0	000.0077	0279.1	009.1	271.0	000.3000	0285.9	069.1	39.94	
047.0	000.0073	0277.4	009.0	270.9	000.3000	0285.8	069.1	39.94	
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053.0	000.0058	0274.5	008.4	270.0	000.3000	0285.7	069.0	39.98	
054.0	000.0056	0272.5	008.3	269.8	000.3000	0285.7	069.0	39.98	
055.0	000.0055	0270.5	008.2	269.7	000.3000	0285.7	069.0	39.98	
056.0	000.0053	0268.7	008.1	269.5	000.3000	0285.7	069.0	39.98	
057.0	000.0052	0266.3	008.0	269.4	000.3000	0285.6	069.0	39.97	
058.0	000.0050	0262.8	007.8	269.2	000.3000	0285.6	069.0	39.96	
059.0	000.0049	0257.7	007.7	269.1	000.3000	0285.6	069.1	39.94	

060.0	000.0047	0252.5	007.5		268.9	000.3000	0285.6	069.2	39.92
061.0	000.0046	0249.5	007.4		268.8	000.3000	0285.6	069.2	39.90
062.0	000.0044	0249.3	007.4		268.7	000.3000	0285.6	069.2	39.90
063.0	000.0043	0251.1	007.3		268.6	000.3000	0285.5	069.2	39.91
064.0	000.0042	0251.8	007.3		268.4	000.3000	0285.5	069.2	39.91
065.0	000.0041	0249.2	007.2		268.3	000.3000	0285.5	069.2	39.90
066.0	000.0039	0242.9	007.0		268.2	000.3000	0285.5	069.3	39.86
067.0	000.0038	0235.0	006.9		268.0	000.3000	0285.5	069.4	39.82
068.0	000.0037	0227.8	006.7		267.9	000.3000	0285.5	069.5	39.78
069.0	000.0036	0221.1	006.5		267.8	000.3000	0285.4	069.6	39.74
070.0	000.0035	0213.5	006.4		267.6	000.3000	0285.4	069.8	39.70
071.0	000.0036	0203.4	006.3		267.5	000.3000	0285.4	069.8	39.69
072.0	000.0038	0190.4	006.2		267.4	000.3000	0285.5	069.9	39.67
073.0	000.0040	0174.2	006.1		267.3	000.3000	0285.5	070.0	39.62
074.0	000.0042	0155.6	005.8		267.2	000.3000	0285.5	070.2	39.55
075.0	000.0044	0135.9	005.5		267.0	000.3000	0285.5	070.5	39.45
076.0	000.0046	0115.1	005.2		266.9	000.3000	0285.5	070.8	39.34
077.0	000.0048	0095.6	004.7		266.8	000.3000	0285.5	071.2	39.20
078.0	000.0050	0077.1	004.3		266.7	000.3000	0285.5	071.6	39.05
079.0	000.0053	0061.3	003.9		266.6	000.3000	0285.5	072.0	38.91
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081.0	000.0054	0044.2	003.3		266.4	000.3000	0285.5	072.6	38.71
082.0	000.0053	0043.8	003.3		266.4	000.3000	0285.5	072.6	38.71
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084.0	000.0051	0061.9	003.9		266.3	000.3000	0285.5	072.0	38.92
085.0	000.0050	0075.4	004.2		266.3	000.3000	0285.5	071.7	39.04
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088.0	000.0048	0119.4	005.3		266.0	000.3000	0285.5	070.6	39.41
089.0	000.0047	0133.2	005.5		266.0	000.3000	0285.5	070.4	39.49
090.0	000.0046	0150.5	005.8		265.9	000.3000	0285.5	070.1	39.60
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097.0	000.0034	0240.2	006.7		265.1	000.3000	0285.6	069.3	39.85
098.0	000.0032	0248.4	006.7		265.0	000.3000	0285.7	069.4	39.85
099.0	000.0030	0256.0	006.7		264.9	000.3000	0285.7	069.4	39.84
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101.0	000.0029	0269.3	006.8		264.7	000.3000	0285.9	069.4	39.85
102.0	000.0030	0274.7	006.9		264.6	000.3000	0286.0	069.3	39.87
103.0	000.0030	0279.4	006.9		264.5	000.3000	0286.1	069.3	39.89
104.0	000.0030	0283.9	007.0		264.4	000.3000	0286.2	069.3	39.90
105.0	000.0030	0287.7	007.1		264.3	000.3000	0286.2	069.3	39.91
106.0	000.0031	0291.0	007.1		264.2	000.3000	0286.3	069.2	39.91
107.0	000.0031	0294.3	007.2		264.1	000.3000	0286.3	069.2	39.91
108.0	000.0031	0297.8	007.2		263.9	000.3000	0286.4	069.2	39.92
109.0	000.0032	0301.3	007.3		263.8	000.3000	0286.4	069.2	39.91
110.0	000.0032	0304.4	007.4		263.7	000.3000	0286.4	069.3	39.91
111.0	000.0033	0306.9	007.4		263.6	000.3000	0286.4	069.2	39.92
112.0	000.0033	0309.1	007.5		263.5	000.3000	0286.4	069.2	39.92
113.0	000.0034	0311.1	007.6		263.3	000.3000	0286.4	069.2	39.92
114.0	000.0035	0312.9	007.7		263.2	000.3000	0286.4	069.2	39.92
115.0	000.0036	0314.8	007.8		263.1	000.3000	0286.4	069.2	39.92
116.0	000.0037	0316.5	007.8		262.9	000.3000	0286.4	069.2	39.91
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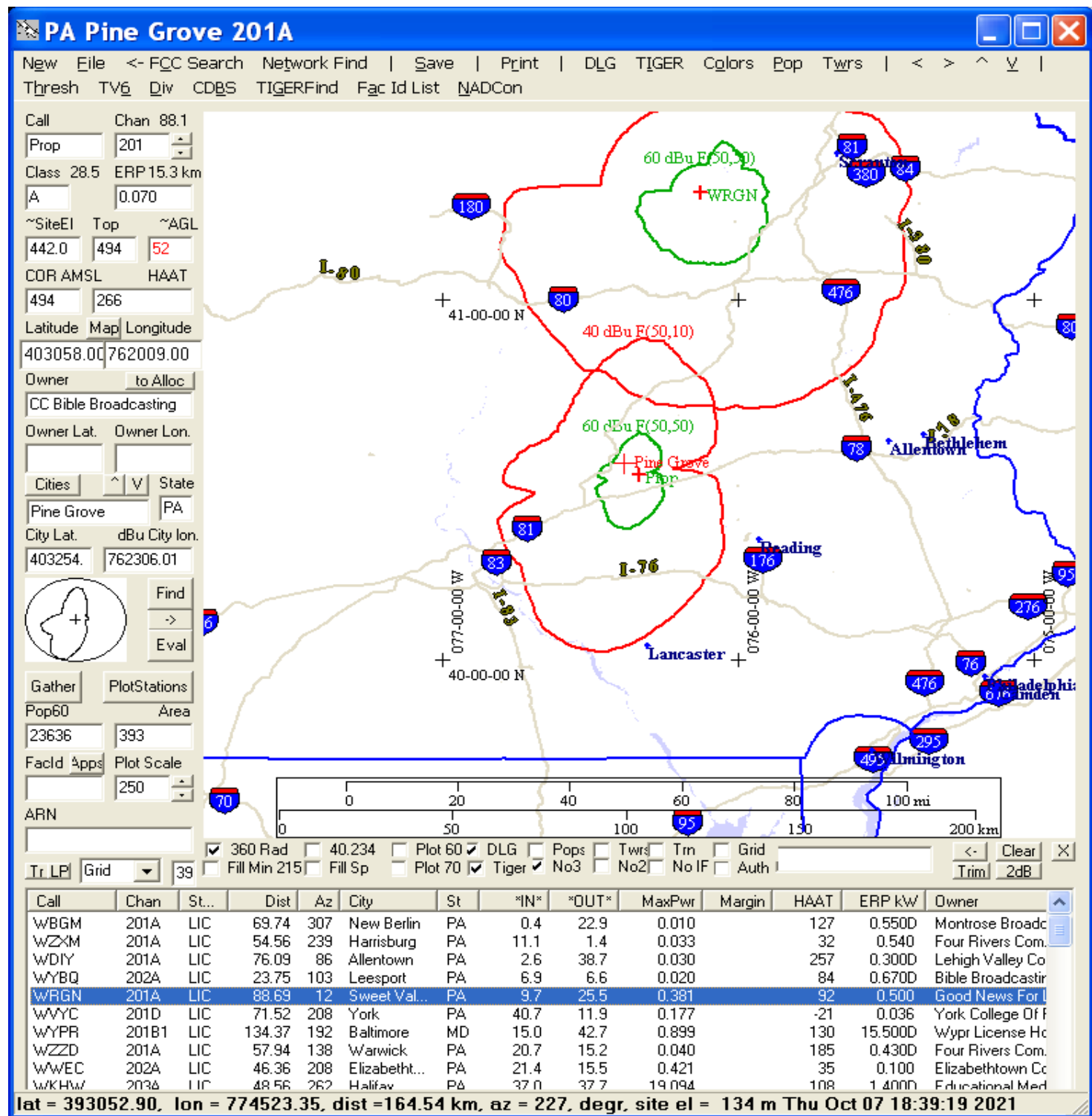
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119.0	000.0040	0320.6	008.0		262.6	000.3000	0286.4	069.3	39.89
120.0	000.0040	0321.2	008.1		262.4	000.3000	0286.4	069.3	39.88
121.0	000.0043	0321.3	008.2		262.3	000.3000	0286.5	069.3	39.89
122.0	000.0045	0321.2	008.4		262.1	000.3000	0286.5	069.3	39.89
123.0	000.0047	0321.8	008.5		262.0	000.3000	0286.5	069.3	39.89
124.0	000.0049	0323.8	008.6		261.8	000.3000	0286.5	069.3	39.89
125.0	000.0052	0327.0	008.8		261.6	000.3000	0286.6	069.3	39.90
126.0	000.0054	0330.6	009.0		261.4	000.3000	0286.6	069.3	39.90
127.0	000.0056	0334.1	009.1		261.2	000.3000	0286.6	069.3	39.90
128.0	000.0059	0337.1	009.3		261.0	000.3000	0286.7	069.3	39.90
129.0	000.0061	0339.6	009.4		260.9	000.3000	0286.8	069.3	39.89
130.0	000.0064	0341.7	009.6		260.7	000.3000	0286.9	069.4	39.89
131.0	000.0067	0342.9	009.7		260.5	000.3000	0287.1	069.4	39.88
132.0	000.0071	0343.1	009.9		260.3	000.3000	0287.3	069.5	39.87
133.0	000.0074	0342.3	010.0		260.2	000.3000	0287.4	069.5	39.85
134.0	000.0078	0341.4	010.1		260.0	000.3000	0287.6	069.6	39.83
135.0	000.0082	0340.4	010.2		259.8	000.2997	0287.7	069.7	39.80
136.0	000.0086	0338.7	010.3		259.7	000.2994	0287.9	069.8	39.77
137.0	000.0089	0336.8	010.4		259.5	000.2991	0288.0	069.9	39.73
138.0	000.0093	0335.7	010.5		259.4	000.2988	0288.1	070.0	39.70
139.0	000.0097	0335.2	010.6		259.2	000.2985	0288.3	070.1	39.66
140.0	000.0102	0334.7	010.7		259.1	000.2982	0288.4	070.2	39.62
141.0	000.0104	0334.0	010.8		259.0	000.2979	0288.4	070.3	39.57
142.0	000.0106	0333.0	010.8		258.9	000.2977	0288.5	070.5	39.52
143.0	000.0108	0331.8	010.8		258.8	000.2976	0288.6	070.6	39.46
144.0	000.0110	0330.8	010.9		258.7	000.2974	0288.6	070.8	39.41
145.0	000.0112	0329.7	010.9		258.6	000.2972	0288.7	071.0	39.35
146.0	000.0115	0329.3	011.0		258.5	000.2970	0288.7	071.1	39.29
147.0	000.0117	0329.6	011.0		258.4	000.2968	0288.8	071.3	39.24
148.0	000.0119	0330.6	011.1		258.3	000.2966	0288.9	071.4	39.18
149.0	000.0121	0331.9	011.2		258.2	000.2964	0288.9	071.6	39.13
150.0	000.0124	0333.4	011.2		258.1	000.2961	0289.0	071.7	39.07
151.0	000.0130	0334.8	011.4		257.9	000.2958	0289.0	071.9	39.01
152.0	000.0136	0335.7	011.6		257.8	000.2955	0289.1	072.0	38.96
153.0	000.0142	0335.7	011.7		257.6	000.2952	0289.1	072.2	38.90
154.0	000.0149	0334.8	011.8		257.5	000.2949	0289.1	072.4	38.84
155.0	000.0155	0333.4	011.9		257.4	000.2947	0289.2	072.6	38.77
156.0	000.0162	0331.8	012.0		257.3	000.2945	0289.2	072.7	38.70
157.0	000.0169	0330.2	012.1		257.2	000.2943	0289.2	072.9	38.63
158.0	000.0176	0329.1	012.2		257.1	000.2941	0289.2	073.1	38.56
159.0	000.0183	0329.0	012.3		257.0	000.2938	0289.1	073.3	38.49
160.0	000.0190	0329.4	012.4		256.9	000.2936	0289.1	073.5	38.42

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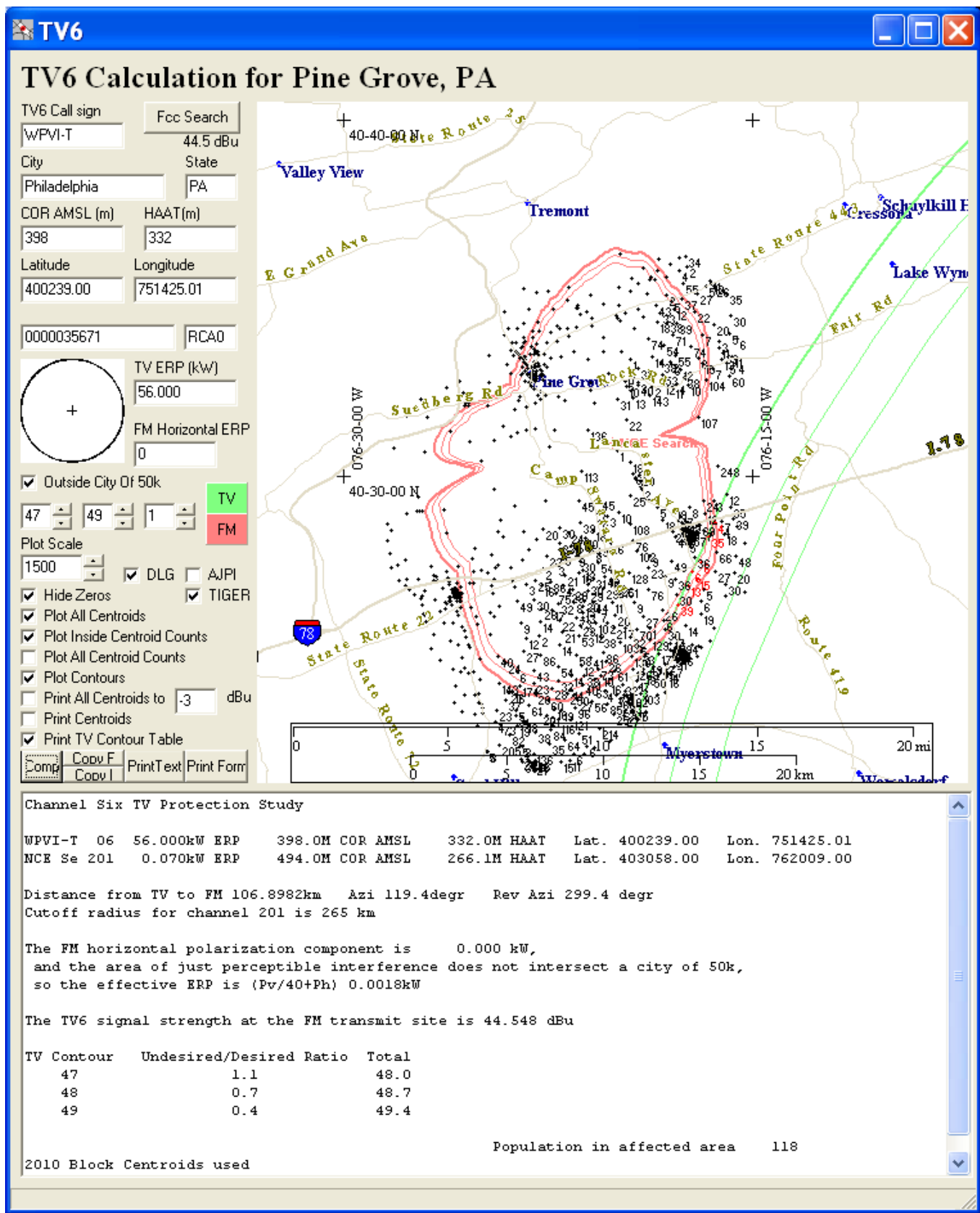
Prop vs WYBQ



Prop vs WRGN



Channel 6 Television



TV6 Calculation for Pine Grove, PA

TV6 Call sign: WPVI-T
Fcc Search: 42.3 dBu

City: Philadelphia
State: PA

COR AMSL (m): 396
HAAT (m): 330

Latitude: 400233.00
Longitude: 751432.02

BLCDT-20111019ACJ
DIEO

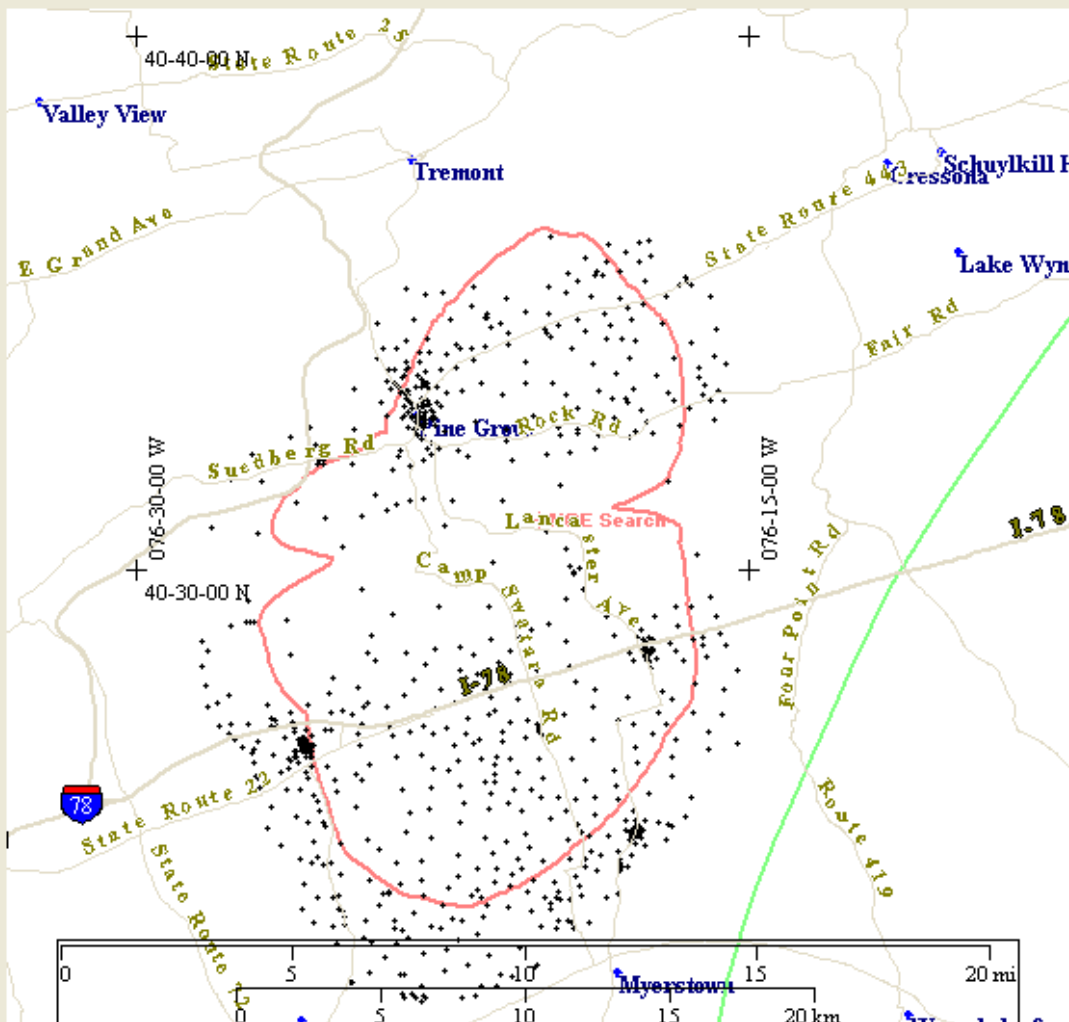
TV ERP (kW): 34.000
FM Horizontal ERP: 0

☒ Outside City Of 50k

47 47 1 TV FM

Plot Scale: 1500
☒ DLG ☐ AJPI
☒ Hide Zeros ☒ TIGER
☒ Plot All Centroids
☐ Plot Inside Centroid Counts
☐ Plot All Centroid Counts
☒ Plot Contours
☐ Print All Centroids to: -3 dBu
☐ Print Centroids
☒ Print TV Contour Table

Comp Copy F PrintText Print Form
Copy I Copy L



Channel Six TV Protection Study

WPVI-T	06	34.000kW ERP	396.0M COR AMSL	330.0M HAAT	Lat. 400233.00	Lon. 751432.02
NCE Se	201	0.070kW ERP	494.0M COR AMSL	266.1M HAAT	Lat. 403058.00	Lon. 762009.00

Distance from TV to FM 106.8460km Azimuth 119.5degr Rev Azimuth 299.5 degr
Cutoff radius for channel 201 is 265 km

The FM horizontal polarization component is 0.000 kW,
and the area of just perceptible interference does not intersect a city of 50k,
so the effective ERP is $(P_v/40+P_h)$ 0.0018kW

The TV6 signal strength at the FM transmit site is 42.257 dBu

TV Contour	Undesired/Desired Ratio	Total
47	1.1	48.0

Population in affected area 0

2010 Block Centroids used

Radiation Hazard

ID Stations V:2.1.15 (C) V-Soft Communications ...

Search Parameters

N. Latitude

W. Longitude

Distance (km)

Date > yymmdd

Station Type

☒ AM Stations

☒ FM Stations

☒ TV Stations

Include secondaries:

☒ FM Translators

☒ TV Translators

Call	Service	City	State	Chan.	Power	Coordinates	Dist	Bear
AM -----	None	Found						
FM -----	None	Found						
TV -----	None	Found						

Radiation Hazard Worksheet

201A Pine Grove PA

From FCC 301/340 Worksheet

COR above ground:
52 m

ERP:
V .070 kW
H 0 kW

Results
0% of Controlled Limit
0.4% of Uncontrolled Limit

Protected zone studies

Protected zones report for Prop on channel 201A 10-07-2021

Lat. 40 30 58.0 Lng. 76 20 09.0, ERP= 0.07 kw, HAAT= 266.7 m

Facility is okay with respect to Canada. Distance = 338.0 km.

Facility is okay with respect to AM station towers.

Closest AM Facility is WADV, LEBANON, PA, L, ND1 at 188.7° at a distance of 16.1 km

Facility is okay with respect to FCC monitoring stations.

Closest FCC Monitoring Station is 155.7 km= Laurel, MD

Facility is okay toward West Virginia Quiet Zone. Distance to center = 361.5 km

Facility is okay toward Table Mountain. Distance to Center = 2456.9 km, Azimuth = 278.5 Degrees True

Reasonable Assurance of Site Availability

Pine Grove, Pennsylvania

Cody Peters

781-9269-7041

Authorized Representative of Tower Owner (American Tower)

Statement of Educational Objectives

Calvary Chapel Bible Broadcasting (“CCBB”) is a non-profit corporation that was organized under the laws of Pennsylvania on March 24, 2016. Our primary objective is to provide Biblical teaching. CCBB currently operates two FM translators. Through a new full power noncommercial station, we will expand our service to the community.

CCBB’s educational objectives include:

Youth Religious Education: We place a high priority on the children and youth of the community. One of our goals is to broadcast programming to provide quality religious education to the youth of the proposed station’s service area.

Marriage: Another goal of our ministry is the promotion of strong marriages. We will provide programming intended to enhance marriage relationships in our community.

Recovery: Another priority is the eradication of substance abuse. The problem with addictions of all kinds continues to plague far too many people in our community. The station will air programming to address substance abuse and provide information and encouragement to those on the road to recovery.

Citizenship: Another of our goals is to promote good citizenship. We will carry programming designed to instill the values of personal responsibility, initiative, honesty, community involvement and compassion for all people, particular those in need.

The Role of Radio: It is our goal to continue to be a positive influence in our community and the surrounding area through the use of radio. Radio reaches people we would might never be able to reach in person with the hope available through the Word of God. In addition to airing programming to serve the objectives discussed above, CCBB plans to provide news and public affairs programs directed to the service area.