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MEMBER, DISTRICT OF COLUMBIA BAR ONLY; PRACTICE LIMITED TO FEDERAL COURTS AND AGENCIES

TELECOPIER: E-MAIL: 571-399-8036 dkellyfcclaw1@comcast.net

April 8, 2020

#### USPS EXPRESS MAIL

Federal Communications Commission Media Bureau P.O. Box 979089 St. Louis, MO 63197-9000

> RE: Glenn Cherry FRN 0026-1705-06 WPUL(AM), South Daytona, Florida FCC Facility ID # 53704 Form 302-AM Application

Ladies and Gentlemen:

On behalf of our client Glenn Cherry, there is transmitted herewith in triplicate an application on FCC Form 302-AM for a license to cover the changes made to AM Broadcast Station WPUL, South Daytona, Florida which were authorized in File No. BP-20180907ADW.

An FCC Form 159 is attached to the original of this application; this form provides information for a credit card payment in the amount of \$725.00 (fee code MMR).

Should additional information be desired in connection with the above matter, kindly communicate with this office.

Very truly yours,

Dennis J. Kelly

Approved by OMB 3060-0627 Expires 01/31/98

FOR	
FCC	
USE	
ONLY	

FCC 302-AM

APPLICATION FOR AM

#### **BROADCAST STATION LICENSE**

(Please read instructions before filling out form.

FOR COMMISSION USE ONLY

FILE NO.

SECTION I - APPLICANT	FEE INFORMAT	ION			
1. PAYOR NAME (Last, First,	, Middle Initial)				
GLENN CHERRY					
MAILING ADDRESS (Line 1) Post Office Box 48857	(Maximum 35 char	acters)			
MAILING ADDRESS (Line 2)	(Maximum 35 char	acters)			
CITY Tampa			STATE OR COUNTRY (if t	oreign address)	ZIP CODE 33646
TELEPHONE NUMBER (inclu 877-352-4455	de area code)		CALL LETTERS WPUL	OTHER FCC ID 53704	ENTIFIER (If applicable)
Governmental Entity C. If Yes, provide the following Enter in Column (A) the correct Fee Filing Guide." Column (B) (A) FEE TYPE CODE	ing information: ct Fee Type Code ) lists the Fee Multi	for the service vo	ducational licensee	unt due in Column (	h in the "Mass Media Services
MMR	0 0	0 1	\$ 725.00		
	equesting concurre		result in a requirement to list mo	ore than one Fee Ty	vpe Code.
(A)	0 0	(B) 0 1	(C) \$		FOR FCC USE ONLY
ADD ALL AMOUNTS SHOWN AND ENTER THE TOTAL HEF THIS AMOUNT SHOULD EQU	RE.	SED			FOR FCC USE ONLY
REMITTANCE.	AL TOUR ENCLO	5ED	\$ 725.00		

SECTION II - APPLICAI	NT INFORMATION		all and the second	
1. NAME OF APPLICANT GLENN CHERRY			······	
MAILING ADDRESS				·····
POST OFFICE BOX 48857 CITY	/	STATE		ZIP CODE
ТАМРА		FL		33646
2. This application is for	Commercia		nercial Ion-Directional	
Call letters	Community of License	Construction Permit File No.	Modification of Construction	Expiration Date of Last
WPUL	South Daytona, FL	BP-20180907ADW	Permit File No(s).	Construction Permit 11/06/2021
<ol> <li>Is the station r accordance with 47 C.F</li> <li>f No, explain in an Exh</li> </ol>	F.R. Section 73.1620?	nt to automatic program	test authority in	✓ Yes No Exhibit No.
Have all the term construction permit been f No, state exceptions	en fully met?	ligations set forth in the	above described	✓ Yes No Exhibit No.
he grant of the under	lying construction permed in the construction pe	nas any cause or circumsta nit which would result in a ermit application to be now	any statement or	Yes ✓ No Exhibit No.
. Has the permittee fi ertification in accordar No, explain in an Exh	ice with 47 C.F.R. Secti	rt (FCC Form 323) or owne on 73.3615(b)?	ership	Yes No No Does not apply
. Has an adverse find r administrative body v riminal proceeding, bro	ling been made or an a with respect to the appli ought under the provisio	dverse final action been ta cant or parties to the applic ons of any law relating to th	cation in a civil or ne following: any	Exhibit No.
nother governmental u the answer is Yes, a ivolved, including an id by dates and file num formation has been	init; or discrimination? attach as an Exhibit a dentification of the court ibers), and the disposit earlier disclosed in co	full disclosure of the pers t or administrative body an tion of the litigation. Wh onnection with another a icant need only provide: (ij	ons and matters d the proceeding ere the requisite pplication or as	Exhibit No.

of that previous submission by reference to the file number in the case of an application, the call letters of the station regarding which the application or Section 1.65 information was filed, and the date of filing; and (ii) the disposition of the previously reported matter.

8. Does the applicant, or any party to the application, have a petition on file to migrate to the expanded band (1605-1705 kHz) or a permit or license either in the existing band or expanded band that is held in combination (pursuant to the 5 year holding period allowed) with the AM facility proposed to be modified herein?

If Yes, provide particulars as an Exhibit.

The APPLICANT hereby 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 use of the same, whether by license or otherwise, and requests and authorization in accordance with this application. (See Section 304 of the Communications Act of 1934, as amended).

The APPLICANT acknowledges that all the statements made in this application and attached exhibits are considered material representations and that all the exhibits are a material part hereof and are incorporated herein as set out in full in

#### CERTIFICATION

1. By checking Yes, the applicant certifies, that, in the case of an individual applicant, he or she is not subject to a denial of federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. Section 862, or, in the case of a non-individual applicant (e.g., corporation, partnership or other unincorporated association), no party to the application is subject to a denial of federal benefits that includes FCC benefits pursuant to that section. For the definition of a "party" for these purposes, see 47 C.F.R. Section 1.2002(b).

2. I certify that the statements in this application are true, complete, and correct to the best of my knowledge and belief, and are made in good faith.

Name Glenn Cherry	Signature		
Title Sole Proprietor	Date Telephone Number 04/06/2020 877-352-4455		

#### WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION

#### FCC NOTICE TO INDIVIDUALS REQUIRED BY THE PRIVACY ACT AND THE PAPERWORK REDUCTION ACT

The solicitation of personal information requested in this application is authorized by the Communications Act of 1934, as amended. The Commission will use the information provided in this form to determine whether grant of the application is in the public interest. In reaching that determination, or for law enforcement purposes, it may become necessary to refer personal information contained in this form to another government agency. In addition, all information provided in this form will be available for public inspection. If information requested on the form is not provided, the application may be returned without action having been taken upon it or its processing may be delayed while a request is made to provide the missing information. Your response is required to obtain the requested authorization.

Public reporting burden for this collection of information is estimated to average 639 hours and 53 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, can be sent to the Federal Communications Commission, Records Management Branch, Paperwork Reduction Project (3060-0627), Washington, D. C. 20554. Do NOT send completed forms to this address.

THE FOREGOING NOTICE IS REQUIRED BY THE PRIVACY ACT OF 1974, P.L. 93-579, DECEMBER 31, 1974, 5 U.S.C. 552a(e)(3), AND THE PAPERWORK REDUCTION ACT OF 1980, P.L. 96-511, DECEMBER 11, 1980, 44 U.S.C. 3507.

## Yes 🖌 No

Exhibit No.

SECTION III - L	SECTION III - LICENSE APPLICATION ENGINEERING DATA						
	Name of Applicant Glenn Cherry						
PURPOSE OF A	UTHORIZATIC	N APPLIED FOR	R: (check one)				
<ul> <li>✓</li> </ul>	Station License		Direct Mea	asurement of Pov	ver		
1. Facilities auth	orized in constr	ruction permit					
Call Sign		nstruction Permit		Hours of Operation		Power in I	kilowatts
WPUL	(if applicable) BP-201809074	ADW	(kHz) 1590	Unlimited	1	Night 0.047	Day 1.0
2. Station location	n		÷				
State				City or Town			
Florida				South Da	iytona		
3. Transmitter lo	cation						
State	County			City or Town		Street address	tion
FL	Volusia			Daytona E	Beach	or other identifica 427 S. Dr. Martin L	uon) .uther King Jr. Blvd.
4. Main studio lo	cation						
State	County			City or Town		Street address	4:
FL	Volusia			Daytona B		(or other identification) 427 S. Dr. Martin Luther King Jr. Blv	
5. Remote contro	ol point location	n (specify only if a	uthorized direction	nal antenna)			
State	County			City or Town		Street address or other identifica	tion)
7. Does the sam	6. Has type-approved stereo generating equipment been installed?       Image: Yes image: Ves image: Ve						
8 Operating con	8. Operating constants:						
RF common point or antenna current (in amperes) without modulation for night systemRF common point or antenna current (in amperes) without modulation for day system1.466.74							
operating frequer							
	22.0     22.0     318.0						
Antenna indicatio	ns for direction		monitor	Antonno	nitor comple	1	
Towe	rs	Antenna Phase reading		current	()		ase currents
Night Day Night Day Night Day					Day		

Manufacturer and type of antenna monitor:

#### SECTION III - Page 2

9. Description of antenna system ((f directional antenna is used, the information requested below should be given for each element of the array. Use separate sheets if necessary.)

Type Radiator	Overall height in meters of radiator above base insulator, or above base, if grounded.	Overall height in meters above ground (without obstruction lighting)	Overall height in meters above ground (include obstruction lighting)	If antenna is either top loaded or sectionalized, describe fully in an Exhibit.
Self Supporting Tower	22.0	22.0	22.0	Exhibit No. <mark>N/A</mark>
Excitation	Series	Shunt		

Geographic coordinates to nearest second. For directional antenna give coordinates of center of array. For single vertical radiator give tower location.

North Latitude 29 ° 12 ′ 06 ″	West Longitude <mark>81 <sup>o</sup> 01</mark> ′	30 "
-------------------------------	--	------

Exhibit No.

Exhibit No.

ENG.

ENG.

If not fully described above, attach as an Exhibit further details and dimensions including any other antenna mounted on tower and associated isolation circuits.

Also, if necessary for a complete description, attach as an Exhibit a sketch of the details and dimensions of ground system.

10. In what respect, if any, does the apparatus constructed differ from that described in the application for construction permit or in the

## permit? None

11. Give reasons for the change in antenna or common point resistance.

New Construction		

I certify that I represent the applicant in the capacity indicated below and that I have examined the foregoing statement of technical information and that it is true to the best of my knowledge and belief.

Name (Please Print or Type)	Signature (check appropriate box below)
Kurt Gorman	
Address (include ZIP Code)	Date
Phasetek Inc.	March 30, 2020
550 California Rd., Unit 11	Telephone No. (Include Area Code)
Quakertown, PA 18951	215-536-6648

Technical Director	Registered Professional Engineer
Chief Operator	Technical Consultant
Other (specify)	

## **ENGINEERING STATEMENT CONCERNING**

# APPLICATION FOR

## **STATION LICENSE**

## WPUL, 1590 KHZ SOUTH DAYTONA, FLORIDA

**MARCH, 2020** 

#### PHASETEK INC.

ENGINEERING STATEMENT CONCERNING APPLICATION FOR STATION LICENSE WPUL, 1590 KHZ SOUTH DAYTONA, FLORIDA MARCH, 2020

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302-AM

**ENGINEERING STATEMENT** 

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FIGURE 2:	GROUNDWAVE CURVES FOR 1590 KHZ
FIGURES 3-8:	MEASURED RADIAL ANALYSIS
FIGURE 9:	MEASURED NON-DIRECTIONAL PATTERN
FIGURE 10:	WPUL TOWER DRAWING

## PHASETEK INC.

## ENGINEERING STATEMENT CONCERNING WPUL, 1590 KHZ SOUTH DAYTONA, FLORIDA MARCH, 2020

#### **SUMMARY**

Analysis of the field intensity measurements was performed for Radio Station WPUL, 1590 KHz, South Daytona, Florida, after installation of equipment at the Transmitter site. WPUL holds Construction Permit Number: BP-20180907ADW to change transmitter site location and antenna system. This report was prepared on behalf of Glenn Cherry, licensee of Radio Station WPUL.

#### SITE MODIFICATIONS

The WPUL Transmitter site is that as currently used for the studio. A type accepted transmitter and new matching equipment have been installed. An existing, base grounded, self supporting tower is fed with a three (3) wire skirt. A ground system has been installed at the base of the tower. A 302AM application for License has been done. Figure 1 describes the antenna system as constructed. A drawing of the WPUL tower is included as figure 10.

#### FIELD INTENSITY MEASUREMENTS

Field intensity measurements were performed on six (6) equally spaced radials to determine antenna efficiency. As many clear, unobstructed points were measured on each radial. Due to the site location relative to the Atlantic Ocean, Radials to the North and East are short in length and the number of measurement locations. Figures 3-8 provide an analysis of the measured data. Figure 9 shows the measured RMS of the pattern which is 234.365 mV/m @ 1kM. This meets the required minimum of 215.0 mV/m @ 1kM, as specified in special operating condition #4 of the CP ,73.189(b) (5).

## PHASETEK INC.

### ENGINEERING STATEMENT CONCERNING WPUL, 1590 KHZ SOUTH DAYTONA, FLORIDA MARCH, 2020

#### **MEASURING EQUIPMENT AND PERSONNEL**

Tower Resistance and Reactance measurements were made with a Delta Electronics OIB-1, operating impedance bridge . Before use, tests of known impedances were made to verify operation. All Field Intensity Measurements were made with a Potomac Instruments Field Intensity Meter; FIM-41, Serial Number 375, calibrated June 3, 2003. The meter was calibrated by Potomac Instruments, Frederick, Maryland. The meter was compared to a Potomac Instruments PI 4100, and agreed. All measurements were taken by WPUL personnel supervised by Kurt Gorman of Phasetek Inc.

#### **CONCLUSION**

It is believed that the WPUL auxiliary Antenna System has been constructed and adjusted in accordance with all applicable Commission rules and regulations. The foregoing was prepared on behalf of Glenn Cherry, under the immediate supervision of Kurt Gorman, Phasetek Inc., Quakertown, Pennsylvania, whose qualifications are a matter of record with the Federal Communications Commission. The statements herein are true and correct of his knowledge, except such statements made on information and belief, and as to these statements he believes them to be true and correct.

Kurt Gorman, President Phasetek Inc. Quakertown, Pennsylvania

#### FIGURE 1

#### ANTENNA SYSTEM AS ADJUSTED

## ENGINEERING STATEMENT CONCERNING WPUL, 1590 KHZ SOUTH DAYTONA, FLORIDA MARCH, 2020

#### **ANTENNA SYSTEM DESCRIPTION**

- The antenna system utilizes a base grounded, self supporting tower that stands 22.0M (42.0°) above its Base. There is no lighting on the tower. The tower is fed with a (3) wire skirt that is symmetrical to the tower.
- 2. The WPUL Ground System consists of (120) buried copper Radials, 22M in length. Copper strap connects the Tower to the main Transmitter grounding point.

#### WPUL (1590 kHz) NON-DIRECTIONAL OPERATION (DAY)

- Impedance = 22.0 + j 318.0 Ohms
- Current = 6.74 Amperes
- Power = 1,000 Watts

#### WPUL (1590 kHz) NON-DIRECTIONAL OPERATION (NIGHT)

- Impedance = 22.0 + j 318.0 Ohms
- Current = 1.46 Amperes
- Power = 47 Watts

### FIELD INTENSITY MEASUREMENTS

## ENGINEERING STATEMENT CONCERNING WPUL, 1590 KHZ SOUTH DAYTONA, FLORIDA MARCH, 2020

Measurements for 0.0 degrees.

Point	Dis	tance	Field	
Numb	er (ki	m) (m	ni) (mV/m)	Notes Date Time
1	0.19	0.12	795.000	12/16/2019 1001
2	0.26	0.16	625.000	12/16/2019 1110
3	0.35	0.22	495.000	12/16/2019 1114
4	0.39	0.24	410.000	12/16/2019 1120
5	0.55	0.34	260.000	12/16/2019 1133
6	0.64	0.40	274.000	12/16/2019 1032
7	0.76	0.47	185.000	12/16/2019 1144
8	1.06	0.66	124.000	12/16/2019 1024
9	1.45	0.90	80.500	12/16/2019 1012
10	1.63	1.01	65.000	12/16/2019 1148
11	2.25	1.40	39.000	12/16/2019 1152
12	3.21	1.99	20.500	12/18/2019 1458
13	3.80	2.36	17.200	12/18/2019 1440
14	4.09	2.54	14.000	12/18/2019 1433
15	4.44	2.76	13.500	12/18/2019 1426

### FIELD INTENSITY MEASUREMENTS

## ENGINEERING STATEMENT CONCERNING WPUL, 1590 KHZ SOUTH DAYTONA, FLORIDA MARCH, 2020

Measurements for 60.0 degrees.

Point	Dis	tance	Field		
Num	ber (k	m) (n	ni) (mV/m)	Notes Date	Time
1	0.20	0.12	805.000	12/16/2019 12	39
2	0.25	0.16	700.000	12/16/2019 12	31
3	0.32	0.20	495.000	12/16/2019 12	21
4	0.44	0.27	342.000	12/16/2019 10	39
5	0.50	0.31	310.000	12/16/2019 12	16
6	0.56	0.35	280.000	12/16/2019 12	10
7	0.73	0.45	184.000	12/16/2019 10	48
8	1.30	0.81	92.000	12/16/2019 10	55
9	1.43	0.89	86.000	12/18/2019 13	30
10	1.73	1.07	75.000	12/18/2019 13	19
11	1.87	1.16	62.000	12/18/2019 13	12
12	1.99	1.24	66.000	12/18/2019 13	08

### FIELD INTENSITY MEASUREMENTS

## ENGINEERING STATEMENT CONCERNING WPUL, 1590 KHZ SOUTH DAYTONA, FLORIDA MARCH, 2020

Measurements for 120.0 degrees.

Point Dist		tance	Field	
Numb	ber (ki	m) (m	ni) (mV/m)	Notes Date Time
1	0.18	0.11	825.000	12/16/2019 1302
2	0.24	0.15	705.000	12/16/2019 1308
3	0.33	0.21	510.000	12/16/2019 1312
4	0.46	0.29	295.000	12/16/2019 1322
5	0.57	0.35	265.000	12/16/2019 1316
6	0.63	0.39	272.000	12/16/2019 1330
7	0.71	0.44	202.000	12/16/2019 1327
8	1.22	0.76	89.500	12/16/2019 1355
9	1.46	0.91	89.000	12/16/2019 1342
10	2.64	1.64	31.000	12/18/2019 1225
11	2.81	1.75	36.500	12/18/2019 1231
12	2.99	1.86	28.300	12/18/2019 1234
13	3.35	2.08	22.900	12/18/2019 1242

#### FIELD INTENSITY MEASUREMENTS

## ENGINEERING STATEMENT CONCERNING WPUL, 1590 KHZ SOUTH DAYTONA, FLORIDA MARCH, 2020

Measurements for 180.0 degrees.

		tance m) (m	Field ni) (mV/m)	Notes Date Time
	· `			
1	0.19	0.12	800.000	12/16/2019 1459
2	0.22	0.14	815.000	12/16/2019 1425
3	0.33	0.21	495.000	12/16/2019 1432
4	0.40	0.25	390.000	12/16/2019 1439
5	0.51	0.32	392.000	12/16/2019 1445
6	0.64	0.40	230.000	12/16/2019 1450
7	1.03	0.64	125.000	12/16/2019 1415
8	1.38	0.86	127.000	12/16/2019 1409
9	2.77	1.72	28.500	12/18/2019 1006
10	4.22	2.62	13.600	12/18/2019 1012
11	5.41	3.36	6.950	12/18/2019 1019
12	7.08	4.40	4.620	12/18/2019 1029
13	8.02	4.98	4.100	12/18/2019 1037
14	9.66	6.00	2.650	12/18/2019 1105
15	11.46	7.12	1.720	12/18/2019 1119

#### FIELD INTENSITY MEASUREMENTS

## ENGINEERING STATEMENT CONCERNING WPUL, 1590 KHZ SOUTH DAYTONA, FLORIDA MARCH, 2020

Measurements for 240.0 degrees.

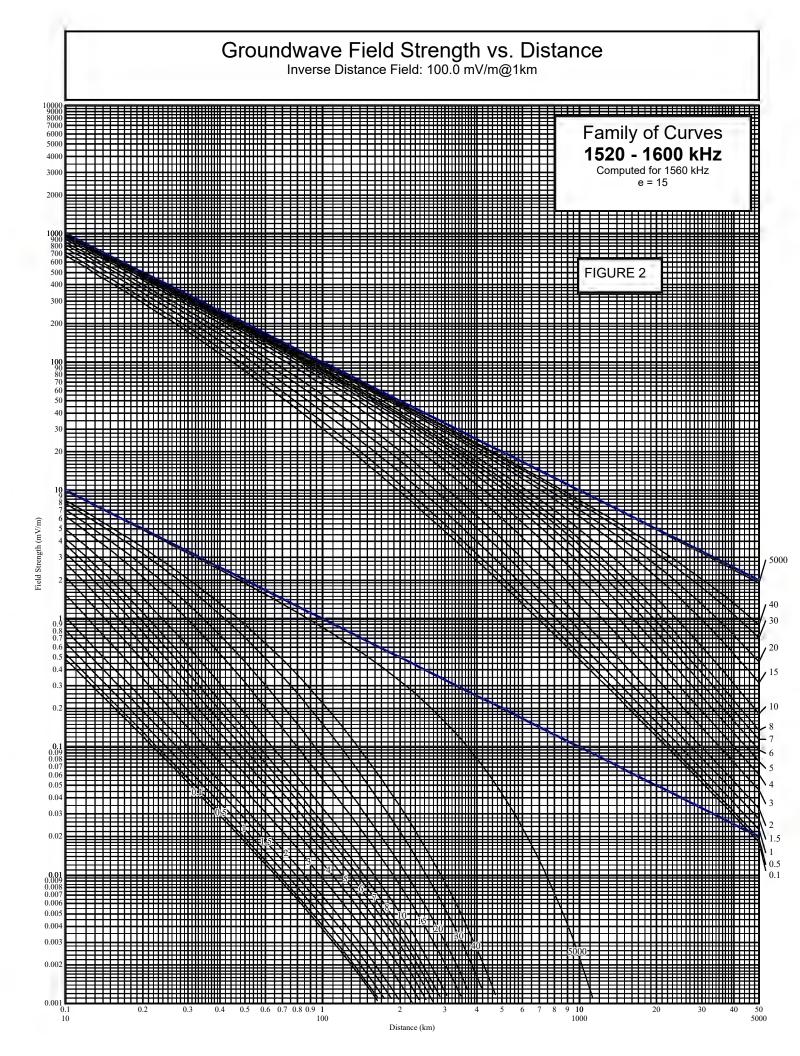
Point Numt		tance n) (m	Field ni) (mV/m)	Notes Date Time
1	0.26	0.16	640.000	12/16/2019 1509
2	0.34	0.21	510.000	12/16/2019 1505
3	0.49	0.30	305.000	12/16/2019 1515
4	0.86	0.53	175.000	12/16/2019 1524
5	1.07	0.66	126.000	12/16/2019 1538
6	1.23	0.76	108.000	12/16/2019 1530
7	1.38	0.86	81.500	12/16/2019 1544
8	1.73	1.07	56.000	12/16/2019 1550
9	2.85	1.77	25.000	12/17/2019 1510
10	3.67	2.28	16.500	12/17/2019 1501
11	4.12	2.56	13.000	12/17/2019 1440
12	4.49	2.79	14.600	12/17/2019 1447
13	6.44	4.00	5.100	12/17/2019 1430
14	9.02	5.60	3.250	12/17/2019 1423
15	12.08	7.51	1.160	12/17/2019 1412
16	14.49	9.00	1.050	12/17/2019 1359

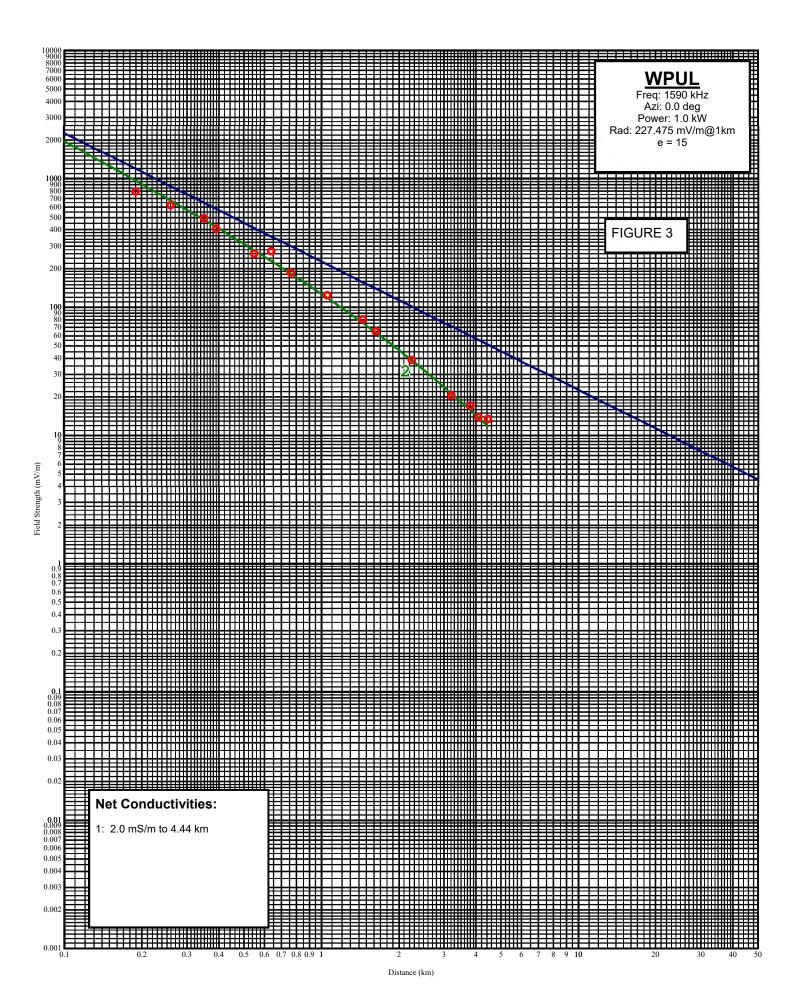
### FIELD INTENSITY MEASUREMENTS

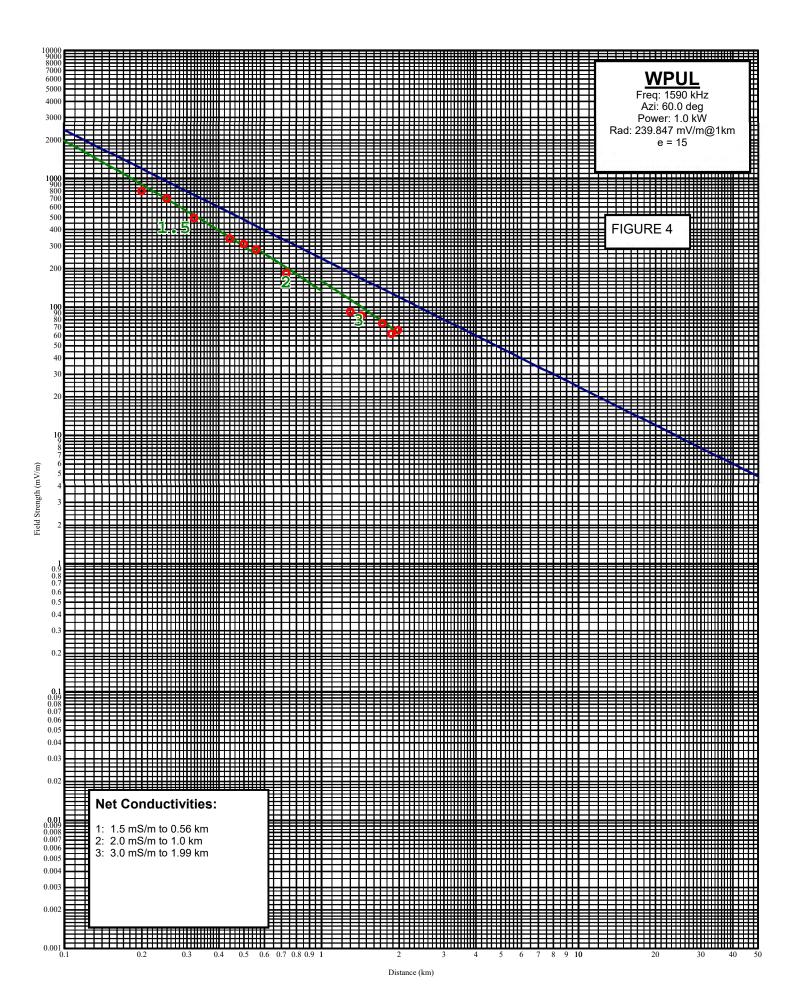
## ENGINEERING STATEMENT CONCERNING WPUL, 1590 KHZ SOUTH DAYTONA, FLORIDA MARCH, 2020

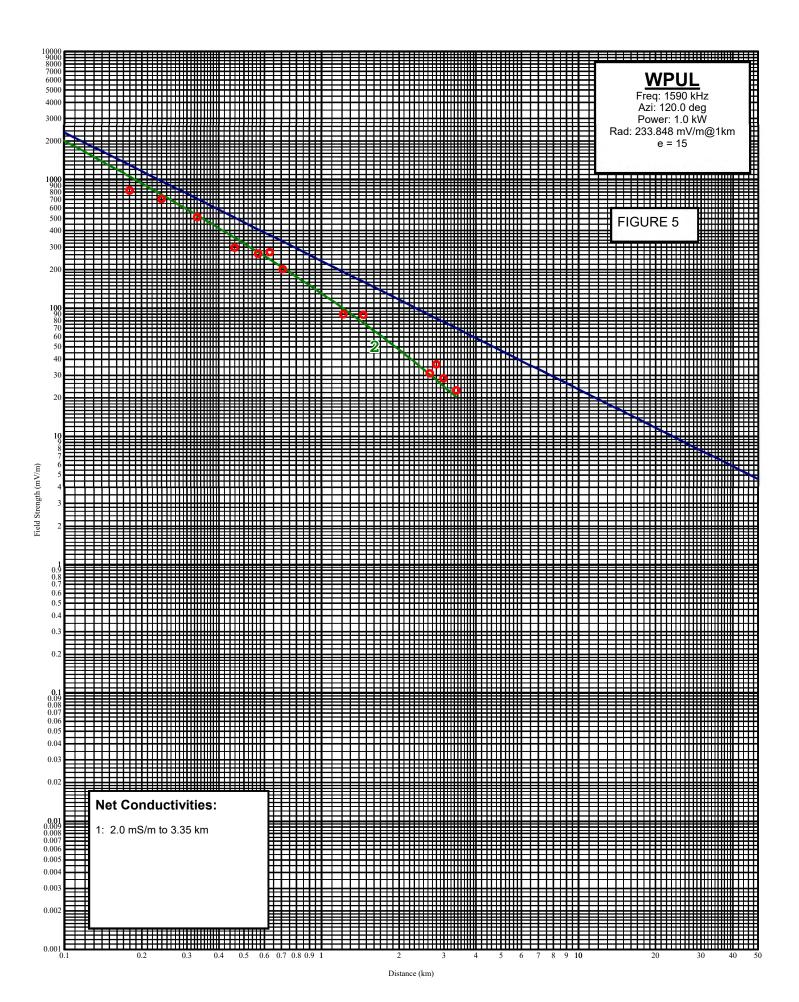
Measurements for 300.0 degrees.

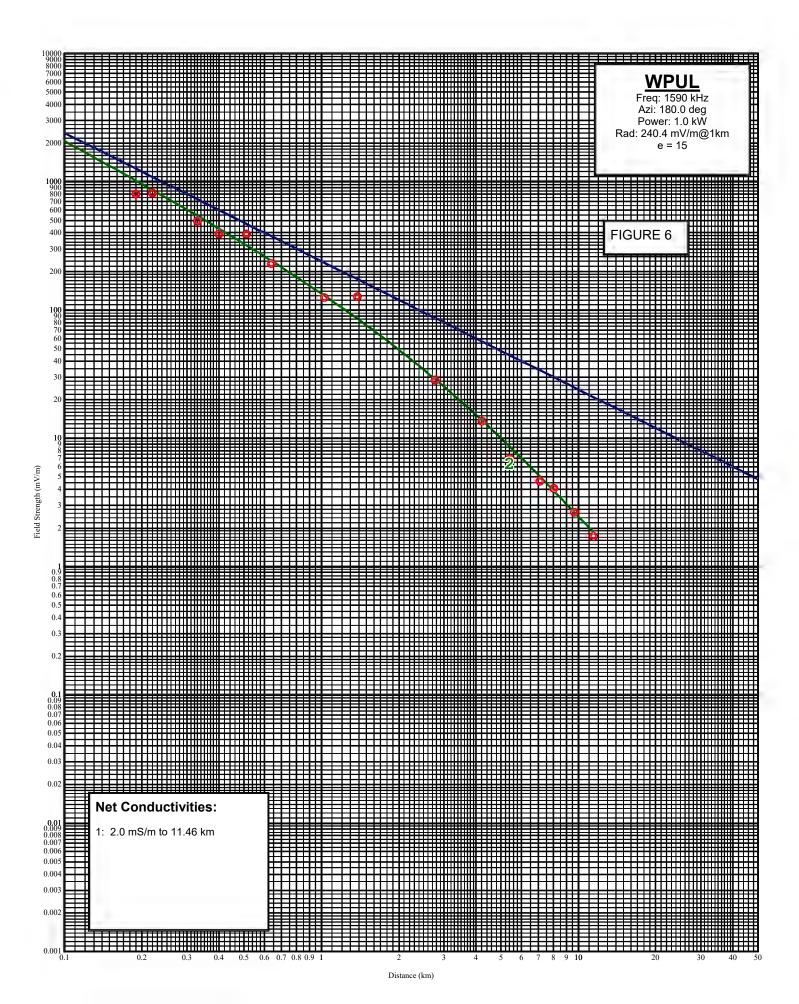
Point	Dis	istance Field				
Numb	er (kr	n) (m	ni) (mV/m)	Notes	Date	Time
1	0.26	0.16	690.000	12/17/	2019 11	10
2	0.30	0.19	550.000	12/17/	2019 11	16
3	0.43	0.27	380.000	12/17/	2019 112	27
4	0.55	0.34	295.000	12/17/	2019 112	23
5	0.72	0.45	186.000	12/17/	2019 10	39
6	1.16	0.72	138.000	12/17/	2019 104	46
7	1.67	1.04	64.500	12/17/	2019 10	53
8	2.24	1.39	42.000	12/17/	2019 114	48
9	2.75	1.71	22.500	12/17/	2019 11	55
10	3.51	2.18	16.600	12/17/	2019 12	06
11	4.43	2.75	11.900	12/17/	2019 12	19
12	5.62	3.49	7.400	12/17/	2019 123	30
13	6.54	4.06	7.400	12/17/	2019 123	36
14	7.86	4.88	4.050	12/17/	2019 124	14
15	10.24	6.36	2.100	12/17/	2019 12	59
16	12.11	7.52	1.450	12/17/	2019 13	10

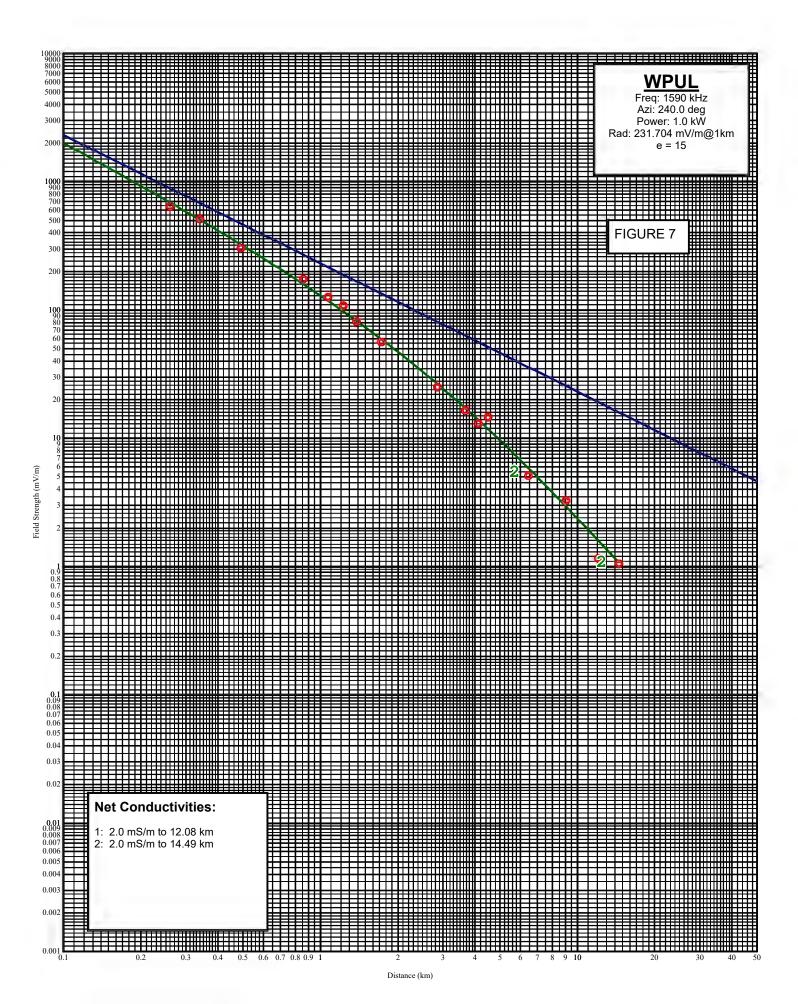


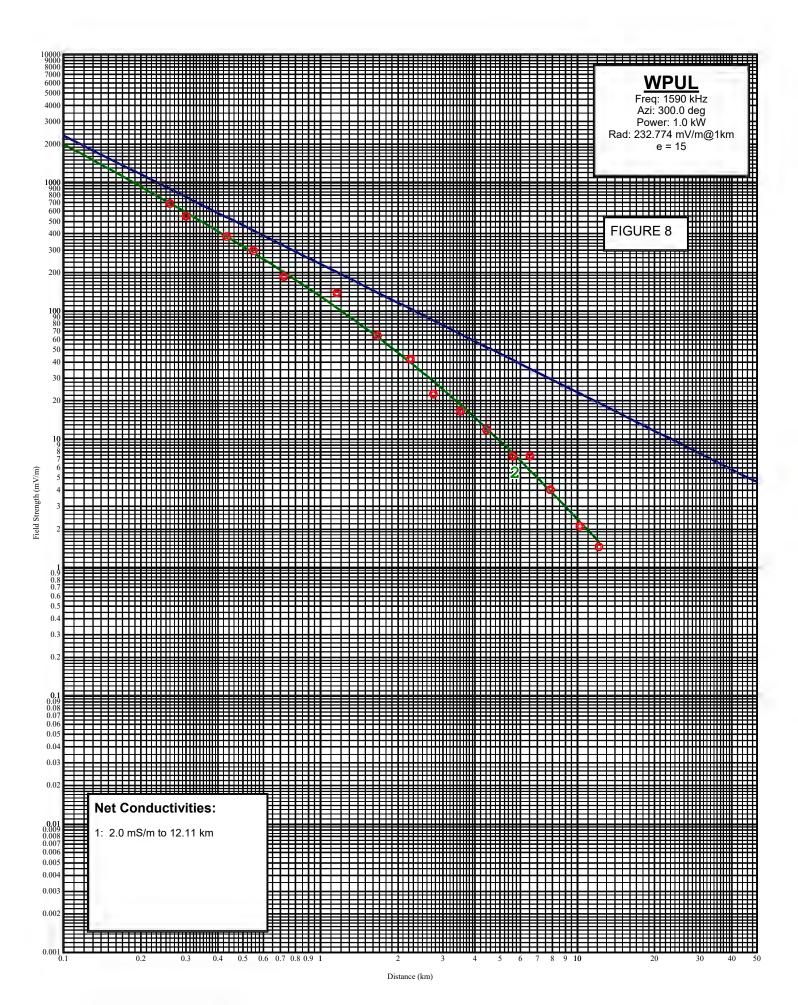


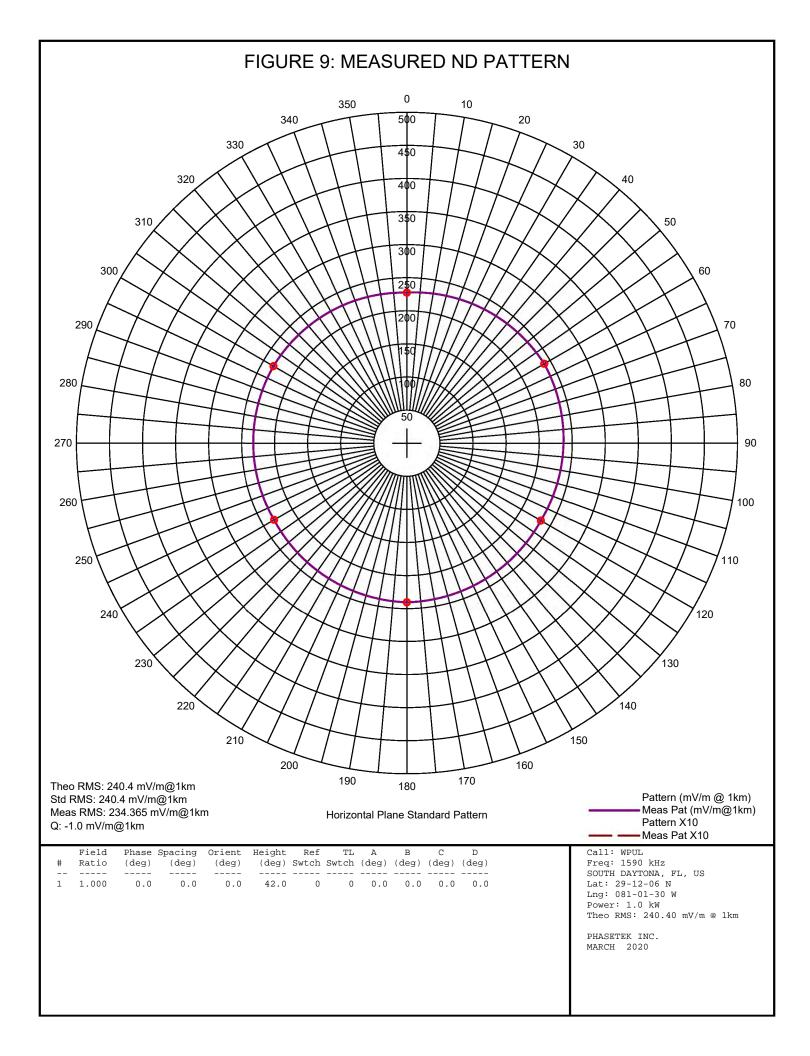


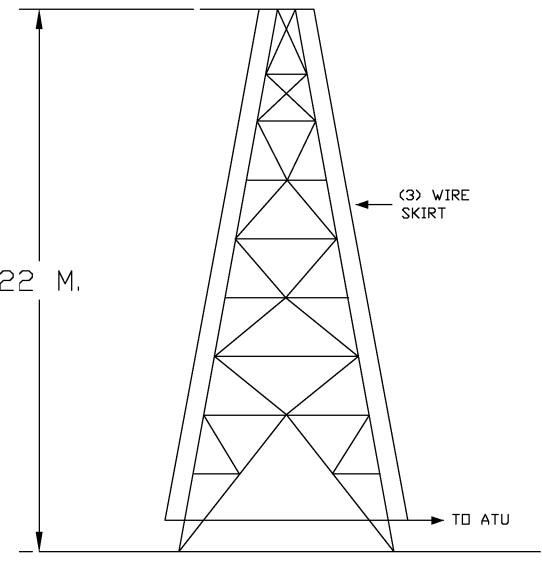












PHASETEK INC. FIGURE 10 TOWER ELEVATION WPUL 1590 KHZ MARCH, 2020