



February 6, 2020

Ms. Marlene H. Dortch
Secretary
Federal Communications Commission
455 12th Street, S.W.
Washington, D.C. 20554

Accepted / Filed

FEB - 6 2020

Federal Communications Commission
Office of the Secretary

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John F. Garziglia
Partner
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E-mail: John.Garziglia@wbd-us.com

Re: **FCC 302-AM Application for KWYO(AM), Sheridan, WY (FCC Facility ID No. 12942) to License the Formerly-Licensed Transmitter Site (FCC File No. BL-14,446) as an Auxiliary Site**

CDear Ms. Dortch:

FRN: 0004998068

Submitted herewith in triplicate on behalf of Lovcom, Inc., the licensee of KWYO(AM), Sheridan, WY, is an FCC Form 302-AM application to license the formerly-licensed main facility (FCC File No. BL-14,446) as an auxiliary facility pursuant to Section 73.1675(c)(2) of the Commission Rules.

There is no FCC filing fee required for this application pursuant to footnote 7 of the Applications Fee Filing Guide for Media Bureau, effective September 4, 2018, since this is a license modification which may be made without prior authorization from the FCC.

Should any questions arise, please contact the undersigned.

Best regards,

John F. Garziglia

Enclosures

FEB - 6 2020

FOR
FCC
USE
ONLY

Federal Communications Commission
Office of the Secretary

FCC 302-AM
APPLICATION FOR AM
BROADCAST STATION LICENSE

(Please read instructions before filling out form.)

FOR COMMISSION USE ONLY

FILE NO. *Bmt-20200206 AAL*

SECTION I - APPLICANT FEE INFORMATION

1. PAYOR NAME (Last, First, Middle Initial)

Lovcom, Inc.

MAILING ADDRESS (Line 1) (Maximum 35 characters)

P.O. Box 5086

MAILING ADDRESS (Line 2) (Maximum 35 characters)

CITY

Sheridan

STATE OR COUNTRY (if foreign address)

WY

ZIP CODE

82801

TELEPHONE NUMBER (include area code)

(307) 673-2838

CALL LETTERS

KWYO

OTHER FCC IDENTIFIER (if applicable)

Facility ID No. 12942

2. A. Is a fee submitted with this application?

Yes No

B. If No, indicate reason for fee exemption (see 47 C.F.R. Section

Governmental Entity Noncommercial educational licensee Other (Please explain):

C. If Yes, provide the following information:

Enter in Column (A) the correct Fee Type Code for the service you are applying for. Fee Type Codes may be found in the "Mass Media Services Fee Filing Guide." Column (B) lists the Fee Multiple applicable for this application. Enter fee amount due in Column (C).

(A)

FEE TYPE CODE		

(B)

FEE MULTIPLE			
0	0	0	1

(C)

FEE DUE FOR FEE TYPE CODE IN COLUMN (A)
\$ Auxiliary Antenna Application

FOR FCC USE ONLY

To be used only when you are requesting concurrent actions which result in a requirement to list more than one Fee Type Code.

(A)

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(B)

0	0	0	1
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(C)

\$

FOR FCC USE ONLY

ADD ALL AMOUNTS SHOWN IN COLUMN C, AND ENTER THE TOTAL HERE. THIS AMOUNT SHOULD EQUAL YOUR ENCLOSED REMITTANCE.

TOTAL AMOUNT REMITTED WITH THIS APPLICATION
\$ Non-Feeable Application

FOR FCC USE ONLY

SECTION II - APPLICANT INFORMATION		
1. NAME OF APPLICANT Lovcom, Inc.		
MAILING ADDRESS P.O. Box 5086		
CITY Sheridan	STATE WY	ZIP CODE 82801

2. This application is for:

- Commercial Noncommercial
 AM Directional AM Non-Directional

Call letters KWYO	Community of License Sheridan	Construction Permit File No. n/a	Modification of Construction Permit File No(s). n/a	Expiration Date of Last Construction Permit n/a
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3. Is the station now operating pursuant to automatic program test authority in accordance with 47 C.F.R. Section 73.1620?

Yes No

If No, explain in an Exhibit.

Exhibit No.
n/a

4. Have all the terms, conditions, and obligations set forth in the above described construction permit been fully met?

Yes No

If No, state exceptions in an Exhibit.

Exhibit No.
n/a

5. Apart from the changes already reported, has any cause or circumstance arisen since the grant of the underlying construction permit which would result in any statement or representation contained in the construction permit application to be now incorrect?

Yes No

If Yes, explain in an Exhibit.

Exhibit No.
n/a

6. Has the permittee filed its Ownership Report (FCC Form 323) or ownership certification in accordance with 47 C.F.R. Section 73.3615(b)?

Yes No

If No, explain in an Exhibit.

Does not apply

Exhibit No.

7. Has an adverse finding been made or an adverse final action been taken by any court or administrative body with respect to the applicant or parties to the application in a civil or criminal proceeding, brought under the provisions of any law relating to the following: any felony; mass media related antitrust or unfair competition; fraudulent statements to another governmental unit; or discrimination?

Yes No

If the answer is Yes, attach as an Exhibit a full disclosure of the persons and matters involved, including an identification of the court or administrative body and the proceeding (by dates and file numbers), and the disposition of the litigation. Where the requisite information has been earlier disclosed in connection with another application or as required by 47 U.S.C. Section 1.65(c), the applicant need only provide: (i) an identification 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.

Exhibit No.

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?

Yes No

If Yes, provide particulars as an Exhibit.

Exhibit No.

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).

Yes No

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 W.K. Love	Signature <i>W.K. Love</i>	
Title President	Date 2/3/2020	Telephone Number 307-672-7421

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.

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 GUYED STEEL TOWER	Overall height in meters of radiator above base insulator, or above base, if grounded. 59.4	Overall height in meters above ground (without obstruction lighting) 59.7	Overall height in meters above ground (include obstruction lighting) 59.7	If antenna is either top loaded or sectionalized, describe fully in an Exhibit. <div style="border: 1px solid black; padding: 2px; display: inline-block;">Exhibit No. NA</div>
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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 44 ° 46 ' 15 "	West Longitude 106 ° 55 ' 39 "
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If not fully described above, attach as an Exhibit further details and dimensions including any other antenna mounted on tower and associated isolation circuits.

Exhibit No.
NA

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

Exhibit No.
n/a

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

N/A - This is an application pursuant to Section 73.1675(c)(2) of the Commission's rules to use the formerly licensed antenna in FCC File No. BL-14,446 as an auxiliary antenna.

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

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) Charles M. Anderson	Signature (check appropriate box below)  <small>Digitally signed by Charles Anderson DN: cn=Charles Anderson, o, ou, email=cmanderson43@yahoo.com, c=US Date: 2020.02.04 16:48:10 -0600</small>
Address (include ZIP Code) 1519 Euclid Avenue Bowling Green, KY 42103	Date February 3, 2020
	Telephone No. (Include Area Code) 270-535-4432

Technical Director

Registered Professional Engineer

Chief Operator

Technical Consultant

Other (specify)

Anderson Associates

1519 Euclid Avenue
Bowling Green, KY 42103
270-535-4432

KWYO APPLICATION FOR USE OF FORMERLY LICENSED SITE AS AUXILIARY SITE

This technical statement is provided in support of the form 302 application to use the formerly licensed site for KWYO on 1410 kHz as an auxiliary site.

Coordinates: N 44-46-15 W 106-55-39 (ASR#1275242)

Antenna = 59.4 meters or 312.41 mV/m/km/kW at 1410 kHz.

Ground system of 120 radials of 175 feet length.

Day power = 0.5 kW

Night power = 0.35 kW

The KWYO auxiliary will be combined with the authorized KROE 930 kHz, 0.5 kW auxiliary facility. An existing 3 meter fence provides more than adequate protection for general population RF exposure based on the use of Table 1 of form 301 based on the worst case of 1 kW at 930 kHz.

A map is provided demonstrating that the KWYO auxiliary facility's 0.5 mV/m day will be contained within the licensed KWYO main facility's 0.5 mV/m.

In an abundance of caution, a night interference study is provided demonstrating that the 350 Watt night facility meets FCC interference requirements.

In view of the fact that the KWYO auxiliary will share the antenna system with the KROE auxiliary facility via a combining network, the system has been tested in accordance with §73.44 (a) and (b)¹ and found to

¹ (a) The emissions of [stations](#) in the AM service shall be attenuated in accordance with the requirements specified in [paragraph \(b\)](#) of this section. Emissions shall be measured using a properly operated and suitable swept-frequency RF spectrum analyzer using a peak hold duration of 10 minutes, no video filtering, and a 300 Hz resolution bandwidth, except that a wider resolution bandwidth may be employed above 11.5 kHz to detect transient emissions. Alternatively, other specialized receivers or monitors with appropriate characteristics may be used to determine compliance with the provisions of this section, provided that any disputes over measurement accuracy are resolved in favor of measurements obtained by using a calibrated spectrum analyzer adjusted as set forth above.

(b) Emissions 10.2 kHz to 20 kHz removed from the carrier must be attenuated at least 25 dB below the unmodulated carrier level, emissions 20 kHz to 30 kHz removed from the carrier must be attenuated at least 35 dB below the unmodulated carrier level, emissions 30 kHz to 60 kHz removed from the carrier must be attenuated at least [5 + 1 dB/kHz] below the unmodulated carrier level, and emissions between 60 kHz and 75 kHz of the carrier frequency must be attenuated

Anderson Associates

1519 Euclid Avenue
Bowling Green, KY 42103
270-535-4432

meet Commission spurious emission requirements based on both unmodulated carries simultaneously operating into the combiner and antenna system using their STA facilities which are identical to the auxiliary facilities. Details of those test will be provided upon request.

January 4, 2020

Charles M. Anderson

at least 65 dB below the unmodulated carrier level. Emissions removed by more than 75 kHz must be attenuated at least $43 + 10 \text{ Log (Power in watts)}$ or 80 dB below the unmodulated carrier level, whichever is the lesser attenuation, except for transmitters having power less than 158 watts, where the attenuation must be at least 65 dB below carrier level.

KWYO-AUX

Freq: 1410 kHz
Class: B
Latitude: 44-46-15 N
Longitude: 106-55-39 W
Power: 0.5 kW
RMS: 312.41 mV/m @1km
Towers: 1

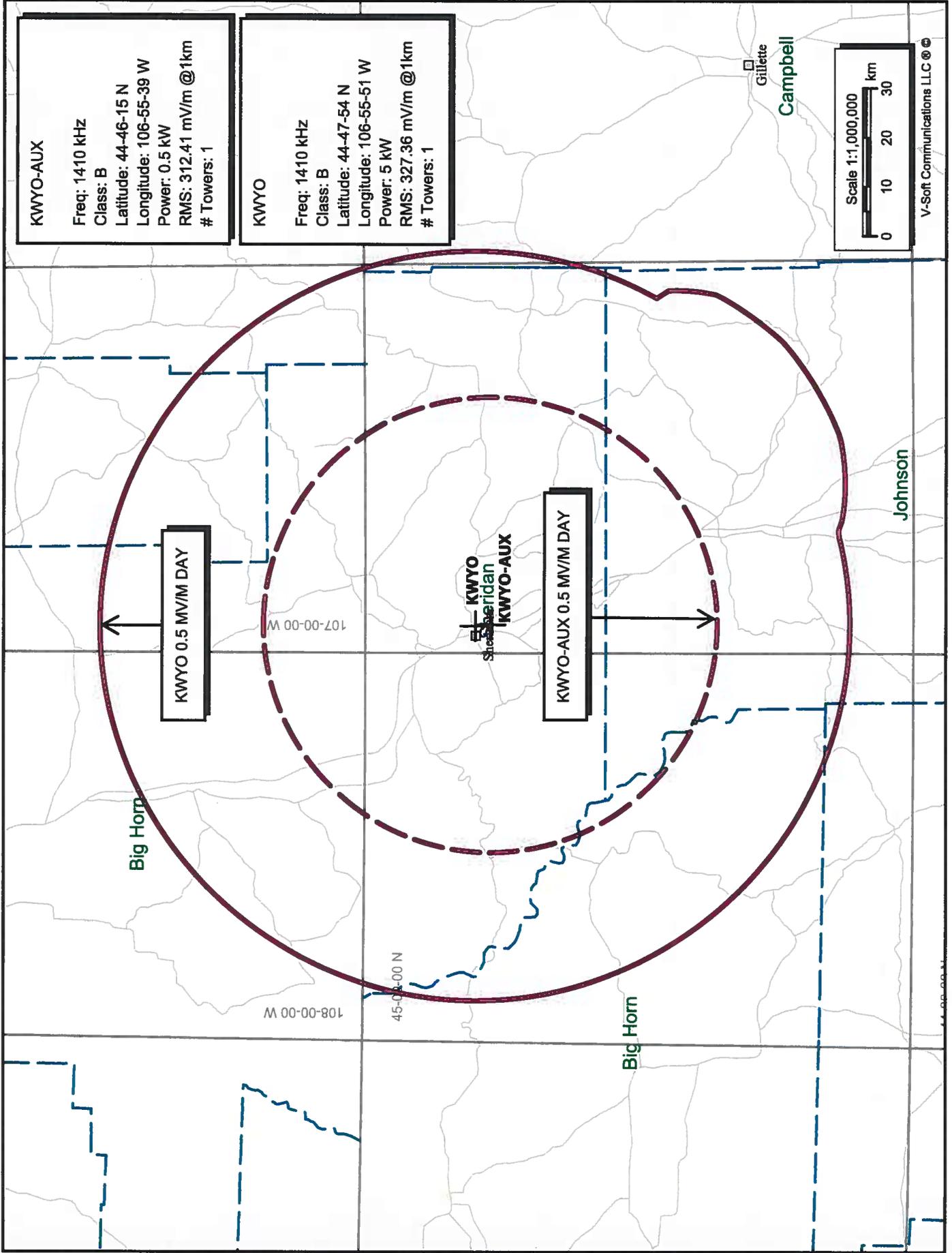
KWYO

Freq: 1410 kHz
Class: B
Latitude: 44-47-54 N
Longitude: 106-55-51 W
Power: 5 kW
RMS: 327.36 mV/m @1km
Towers: 1

Scale 1:1,000,000



V-Soft Communications LLC ©



KWYO-AUX Night Allocation Protection Report

Call: KWYO-AUX
 Freq: 1410 kHz
 SHERIDAN, WY, US
 Hours: N
 Lat: 44-46-15 N
 Lng: 106-55-39 W
 Power: 0.35 kW
 Theo RMS: 312.41 mV/m @ 1km @ 1kW

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swtch	TL Swtch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	100.5	0	0	123.9	0.0	0.0	0.0

Call Letters	Ct	St	City	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
KIIX	US	CO	FORT COLLINS	114.03	4.082	178.98	174.56	4.42
50% = 7.959, 25% = 8.853; KOOQ=4.87 WIZM=4.79 KWYO=4.08 WING=2.90 KKLO=2.57								
KDKT	US	ND	BEULAH	102.54	3.711	180.97	174.43	6.53
50% = 9.24, 25% = 10.471; WIZM=5.69 KRWB=5.30 KIIX=4.98 KWYO=3.71 KOOQ=3.24								
KERI	US	CA	BAKERSFIELD	21.68	0.979	225.78	184.59	41.19
50% = 2.707, 25% = 3.989; XEXX/A=1.44 KKJL=1.39 KUNX=1.29 KRZR=1.29 WIZM=1.25 XECF/A=1.22 WING=1.14 KESQ=1.11 KSHP=1.04 XEBS/A=0.98 KGSO=0.98								
KOOQ	US	NE	NORTH PLATTE	75.37	3.384	224.47	179.25	45.21
50% = 10.847, 25% = 13.535; WIZM=9.00 KGSO=6.05 KKLO=4.92 KIIX=4.77 WING=4.32								
WIZM	US	WI	LA CROSSE	21.15	1.003	237.23	184.21	53.02
50% = 3.545, 25% = 4.013; WOC=2.02 WING=1.73 WPOP=1.68 KTOE=1.63 WBIZ=1.17 KDKT=1.06 KGSO=1.02								

AM FENCE DISTANCE TABLES

TABLE 1. Predicted Distances for Compliance with FCC Limits: 0.1-0.2 Wavelength

Frequency (kHz)	Transmitter Power (kW)			
	50	10	5	1
	Predicted Distance for Compliance with FCC Limits (meters)			
535-740	13	7	6	3
750-940	12	7	5	3
950-1140	11	6	5	3
1150-1340	10	6	5	3
1350-1540	10	6	5	3
1550-1705	10	6	5	3

TABLE 2. Predicted Distances for Compliance with FCC Limits: 0.21-0.4 Wavelength

Frequency (kHz)	Transmitter Power (kW)			
	50	10	5	1
	Predicted Distance for Compliance with FCC Limits (meters)			
535-740	4	2	2	1
750-940	4	2	2	1
950-1140	4	2	2	1
1150-1340	4	2	2	1
1350-1540	4	2	2	1
1550-1705	5	2	2	1

TABLE 3. Predicted Distances for Compliance with FCC Limits: 0.41-0.55 Wavelength

Frequency (kHz)	Transmitter Power (kW)			
	50	10	5	1
	Predicted Distance for Compliance with FCC Limits (meters)			
535-740	4	3	2	2
750-940	4	2	2	2
950-1140	4	2	2	1
1150-1340	4	2	2	2
1350-1540	4	2	2	2
1550-1705	4	3	2	1

TABLE 4. Predicted Distances for Compliance with FCC Limits: 0.56-6255 Wavelength

Frequency (kHz)	Transmitter Power (kW)			
	50	10	5	1
	Predicted Distance for Compliance with FCC Limits (meters)			
535-740	4	3	2	1
750-940	4	2	2	1
950-1140	4	2	2	1
1150-1340	4	2	2	1
1350-1540	4	2	2	1
1550-1705	4	2	2	2