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ORIGINAL

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2014 FEB 10 A 7:27

February 6, 2014

Mark Lipp
202.719.7503
mlipp@wileyrein.com

VIA MESSENGER

Marlene H. Dortch, Esq.
Secretary
Federal Communications Commission
445 12th Street, SW
Washington, DC 20554

Accepted/Files

FEB - 6 2014

Federal Communications Commission
Office of the Secretary

Re: **Application for AM Broadcast Station License Using MoM and
Request for Program Test Authority**
Radio License Holding CBC, LLC
Station KKOH(AM), Reno Nevada
Facility Identifier Number 11236

Dear Ms. Dortch:

BB-20130603ACQ
009721638

Transmitted herewith on behalf of Radio License Holding CBC, LLC ("RLH-CBC"), the licensee of Station KKOH(AM), Reno, Nevada, are an original and two copies of its application for an AM broadcast station license which is submitted as a result of the change in the KKOH antenna monitor. As noted above, since this Station operates in the directional mode during nighttime hours, Program Test Authority is requested. Additionally, the Method of Moments model was used to analyze this antenna system and complete this application.

Please note that the associated filing fees were paid today using FCC Fee Filer.
Copies of documents which show that the \$635.00 and \$730.00 filing fees have been paid are included with this Form 302-AM.

If there are any questions about this Application, please contact undersigned counsel for Radio License Holding CBC, LLC.

Sincerely,

Mark Lipp

ML/dmk

Enclosure

13687911.1

FEB - 6 2014

Federal Communications Commission
Office of the Secretary

Agency Tracking ID:PGC2460938 Authorization Number:284702

Successful Authorization -- Date Paid: 2/6/14 FILE COPY ONLY!!

READ INSTRUCTIONS CAREFULLY BEFORE PROCEEDING (1) LOCKBOX #979089	FEDERAL COMMUNICATIONS COMMISSION REMITTANCE ADVICE FORM 159 PAGE NO 1 OF 1	APPROVED BY OMB 3060-059 SPECIAL USE FCC USE ONLY
SECTION A - Payer Information		
(2) PAYER NAME (if paying by credit card, enter name exactly as it appears on your card) Wiley Rein LLP		(3) TOTAL AMOUNT PAID (dollars and cents) \$1365.00
(4) STREET ADDRESS LINE NO. 1 1776 K Street, N.W.		
(5) STREET ADDRESS LINE NO. 2		
(6) CITY Washington	(7) STATE DC	(8) ZIP CODE 20006-2304
(9) DAYTIME TELEPHONE NUMBER (INCLUDING AREA CODE) 202-7197000 x7235		(10) COUNTRY CODE (IF NOT IN U.S.A.) US
FCC REGISTRATION NUMBER (FRN) AND TAX IDENTIFICATION NUMBER (TIN) REQUIRED		
(11) PAYER (FRN) 0002151744		(12) FCC USE ONLY
IF PAYER NAME AND THE APPLICANT NAME ARE DIFFERENT, COMPLETE SECTION B IF MORE THAN ONE APPLICANT, USE CONTINUATION SHEETS (FORM 159-C)		
(13) APPLICANT NAME Radio License Holding CBC, LLC		
(14) STREET ADDRESS LINE NO. 1 3280 Peachtree Road, NW		
(15) STREET ADDRESS LINE NO. 2 Suite 2300		
(16) CITY Atlanta	(17) STATE GA	(18) ZIP CODE 30305
(19) DAYTIME TELEPHONE NUMBER (INCLUDING AREA CODE) 404-9490700		(20) COUNTRY CODE (IF NOT IN U.S.A.) US
FCC REGISTRATION NUMBER (FRN) AND TAX IDENTIFICATION NUMBER (TIN) REQUIRED		
(21) APPLICANT (FRN) 0019721638		(22) FCC USE ONLY
COMPLETE SECTION C FOR EACH SERVICE, IF MORE BOXES ARE NEEDED, USE CONTINUATION SHEET		
(23A) FCC Call Sign/Other ID KKOH	(24A) Payment Type Code(PTC) MMR	(25A) Quantity 1
(26A) Fee Due for (PTC) \$635.00	(27A) Total Fee \$635.00	FCC Use Only
(28A) FCC CODE 1 11236	(29A) FCC CODE 2 FCCForm302-AM	
(23B) FCC Call Sign/Other ID KKOH	(24B) Payment Type Code(PTC) MOR	(25B) Quantity 1
(26B) Fee Due for (PTC) \$730.00	(27B) Total Fee \$730.00	FCC Use Only
(28B) FCC CODE 1 11236	(29B) FCC CODE 2 FCCForm302-AM	



Fee Filer

[Main Menu](#) | [Submission Confirmation](#)

Logged in as: Radio License Holding CBC, LLC (0019721638) [[Log Out](#)]

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Submission Confirmation



You successfully filed your application fee obligation. The Remittance ID associated with this filing is **2460938**.

Filing and paying regulatory fees are two separate transactions. You have not yet paid your regulatory fee obligation. Click Continue to pay online or print Form 159-E. If you choose to mail your payment to the FCC rather than pay online, you must print and include Form 159-E with your payment. To use Fee Filer to pay at a later time, you will need to return to the Regulatory Fee Manager Filing & Payment History tab.

Total Amount: \$1,365.00

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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. *Bmm L-20140206AJY*

SECTION I - APPLICANT FEE INFORMATION

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

Wiley Rein LLP

MAILING ADDRESS (Line 1) (Maximum 35 characters)

1776 K Street, NW

MAILING ADDRESS (Line 2) (Maximum 35 characters)

CITY
Washington

STATE OR COUNTRY (if foreign address)
DC

ZIP CODE
20006

TELEPHONE NUMBER (include area code)
202.719.7503

CALL LETTERS
KKOH(AM)

OTHER FCC IDENTIFIER (if applicable)
11236

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		
M	M	R

(B) FEE MULTIPLE			
0	0	0	1

(C) FEE DUE FOR FEE TYPE CODE IN COLUMN (A)
\$ 635.00

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)		
M	O	R

(B)			
0	0	0	1

(C)
\$ 730.00

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
\$ 1,365.00

FOR FCC USE ONLY

SECTION II - APPLICANT INFORMATION		
1. NAME OF APPLICANT Radio License Holding CBC, LLC		
MAILING ADDRESS 3280 Peachtree Road, NW, Suite 2300		
CITY Atlanta	STATE Georgia	ZIP CODE 30305

2. This application is for:

- ☒ Commercial
 ☐ Noncommercial
☒ AM Directional
 ☐ AM Non-Directional

Call letters KKOH	Community of License Reno, Nevada	Construction Permit File No. N/A	Modification of Construction Permit File No(s). N/A	Expiration Date of Last Construction Permit N/A
----------------------	--------------------------------------	-------------------------------------	---	---

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.

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

☒ Does not apply

If No, explain in an Exhibit.

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).

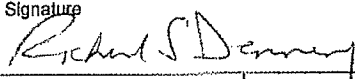
The APPLICANT acknowledges that all the statements made in this application and attached exhibits are considered material representations and that all the exhibits are a material part hereof and are incorporated herein as set out in full in

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 Richard S. Denning	Signature 	
Title Sr. Vice President, Secretary & General Counsel	Date 02/06/2014	Telephone Number 404.949.0700

**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 (3080-0627), 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 - LICENSE APPLICATION ENGINEERING DATA

Name of Applicant

Radio License Holding CBC, LLC

PURPOSE OF AUTHORIZATION APPLIED FOR: (check one)

☒ Station License

☐ Direct Measurement of Power

1. Facilities authorized in construction permit

Call Sign	File No. of Construction Permit (if applicable)	Frequency (kHz)	Hours of Operation	Power in kilowatts	
KKOH	N/A	780	U	Night 50.0	Day 50.0

2. Station location

State	City or Town
Nevada	Reno

3. Transmitter location

State	County	City or Town	Street address (or other identification)
NV	Washoe	Reno	7800 Chickadee Drive

4. Main studio location

State	County	City or Town	Street address (or other identification)
NV	Washoe	Reno	595 East Plumb Lane

5. Remote control point location (specify only if authorized directional antenna)

State	County	City or Town	Street address (or other identification)
NV	Washoe	Reno	595 East Plumb Lane

6. Has type-approved stereo generating equipment been installed?

☐ Yes ☒ No

7. Does the sampling system meet the requirements of 47 C.F.R. Section 73.68?

☒ Yes ☐ No

☐ Not Applicable

Attach as an Exhibit a detailed description of the sampling system as installed.

Exhibit No.
Tech Stmt

8. Operating constants:

RF common point or antenna current (in amperes) without modulation for night system 33.35		RF common point or antenna current (in amperes) without modulation for day system 33.2	
Measured antenna or common point resistance (in ohms) at operating frequency Night 47.35	Day 46.1	Measured antenna or common point reactance (in ohms) at operating frequency Night + 1.59	Day 56.9

Antenna indications for directional operation

Towers	Antenna monitor Phase reading(s) in degrees		Antenna monitor sample current ratio(s)		Antenna base currents	
	Night	Day	Night	Day	Night	Day
Tower #1	-59.90	-----	0.475	-----		
Tower #2	0.0	0.0	1.000	1.000		
Tower #3	63.20	-----	0.494	-----		

Manufacturer and type of antenna monitor: Potomac 1901 SN 889

SECTION III - Page 2

9. Description of antenna system (If 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.
Uniform cross section guyed steel tower	Tower #1 96.0	Tower #1 97.2	Tower #1 97.2	Exhibit No.
	Tower #2 96.0	Tower #2 97.2	Tower #2 97.2	
	Tower #3 96.0	Tower #3 97.2	Tower #3 97.2	

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	39 °	40 '	41 "	West Longitude	119 °	48 '	06 "
----------------	------	------	------	----------------	-------	------	------

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.

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

Exhibit No.

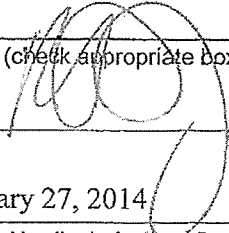
10. In what respect, if any, does the apparatus constructed differ from that described in the application for construction permit or in the permit?

None

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

Computer Assisted Proof §73.151(c)

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)	
R. Stuart Graham		
Address (include ZIP Code)	Date	
	January 27, 2014	
Graham Brock, Inc. P. O. Box 24466 St. Simons Island, GA 31522-7466	Telephone No. (Include Area Code)	912-638-8028

☐ Technical Director

☐ Registered Professional Engineer

☐ Chief Operator

☒ Technical Consultant

☐ Other (specify)

GRAHAM BROCK, INC.

BROADCAST TECHNICAL CONSULTANTS

APPLICATION FOR STATION LICENSE
RADIO LICENSE HOLDING CBC, LLC
KKOH AM RADIO STATION
780 kHz - 50.0 kW DAN
RENO, NEVADA
January 2014

TECHNICAL EXHIBIT

Copyright 2014

APPLICATION FOR STATION LICENSE
RADIO LICENSE HOLDING CBC, LLC
KKOH AM RADIO STATION
780 kHz - 50.0 kW DAN
RENO, NEVADA
January 2014

Table of Contents

<u>Exhibit</u>	<u>Description</u>
	Technical Statement
1)	Analysis of Tower Impedance Measurements to Verify Method of Moments Model
2)	Derivation of Operating Parameters for Directional Antenna
3)	Method of Moments Model Details for Towers Driven Individually
4)	Method of Moments Model Details for Directional Antenna Patterns
5)	Direct Measurement of Power
6)	Sampling System and Measurements
7)	Reference Field Strength Measurements
8)	Antenna Monitor Calibration
9)	Polar Graphs - KKOH Polar Pattern Plots
	Affidavit of Richard Graham

APPLICATION FOR STATION LICENSE
RADIO LICENSE HOLDING CBC, LLC
KKOH AM RADIO STATION
780 kHz - 50.0 kW DAN
RENO, NEVADA
January 2014

This Technical Statement was prepared on behalf of Radio License Holding CBC, LLC ("RLH"), licensee of radio station KKO, 780 kHz, Reno, Nevada. KKO operates non-directionally during daytime hours and directionally with three towers during nighttime hours. This application seeks program test authority and a station license with computer analyzed directional operation under the provisions of Section 73.151(c). The calculations shown herein are for the daytime power of 50.0 kilowatts non-directional ("ND") and the nighttime power of 50.0 kilowatts directional ("DA").

The towers are identified using the following numbering sequence: Tower #1 (west), Tower #2 (center), and Tower #3 (east). The towers and ground system were constructed in accordance with the terms of the KKO construction permit and the specifications that were provided in the current KKO station license.

Information is provided herein to demonstrate the directional antenna parameters for the authorized daytime and nighttime patterns are in accordance with the requirements of Section 73.151(c) of the Commission's rules. The system has been adjusted to produce antenna monitor parameters within +/- 5 percent in ratio and +/- 3 degrees in phase of the modeled values, as required by the rules.

We have tried to be as accurate as possible in the preparation of this application. All information contained in this application was extracted from the CDBS database. We assume no liability for omissions or errors in this source. Should there be any questions concerning the information contained herein, we welcome the opportunity to discuss the matter by phone at 912-638-8028 or by email at rsg@grahambrock.com.

APPLICATION FOR STATION LICENSE
RADIO LICENSE HOLDING CBC, LLC
KKOH AM RADIO STATION
780 kHz - 50.0 kW DAN
RENO, NEVADA
January 2014

EXHIBIT #1

Analysis of Tower Impedance Measurements to Verify Method of Moments Model

Tower base impedance measurements were made at the final J-plugs within the Antenna Tuning Units ("ATU's") using an Agilent 8753ES Vector Network Analyzer with an ENI 411 LA RF Power Amplifier and Tunwall Directional Couplers, utilized as a calibrated measurement system. The other towers were open circuited at the same points where impedance measurements were made ("reference points"), in compliance with Section 73.151(c)(1).

The reference point in each ATU is followed by the feed-line that exits the ATU enclosure and is connected to the tower above the base insulator. Circuit calculations were performed to relate the Method of Moments modeled impedances of the tower feed points to the ATU output measurement (reference) points, as shown on the following pages. The XL shown for each tower, which was calculated for the assumed stray inductance, was less than 10 uH, in compliance with Section 73.151(c)(1)(vii).

The modeled and measured base impedances at the ATU output jacks, with the other towers short circuited at their ATU output jacks agree within +/- 2 ohms and +/- 4 percent for resistance, as required by Section 73.151(c)(2) of the FCC Rules.

We have tried to be as accurate as possible in the preparation of this application. All information contained in this application was extracted from the CDBS database. We assume no liability for omissions or errors in this source. Should there be any questions concerning the information contained herein, we welcome the opportunity to discuss the matter by phone at 912-638-8028 or by email at rsg@grahambrock.com.

EXHIBIT #1A.

Daytime

TOWER	Z(ATU-measured)	
1 (west)	--	--
2 (center)	45.4	+j 47.05
3 (east)	--	--

Nighttime

TOWER	L(uH) - series	X(L)	Z(tower-modeled)	Z(ATU-measured)	Z(tower-measured)
1 (west)	0.94	+j 4.6	45.8 +j 41.19	45.8 +j 45.78	45.8 +j 41.19
2 (center)	0.25	+j 1.2	45.4 +j 45.80	45.4 +j 47.05	45.4 +j 45.80
3 (east)	0.35	+j 1.7	47.2 -j 45.95	47.2 +j 47.67	47.2 +j 45.95

From Moment Method Calculated Values

Tower Impedance Tolerance

Resistance & Reactance

+/- 2 Ohms and +/- 4%

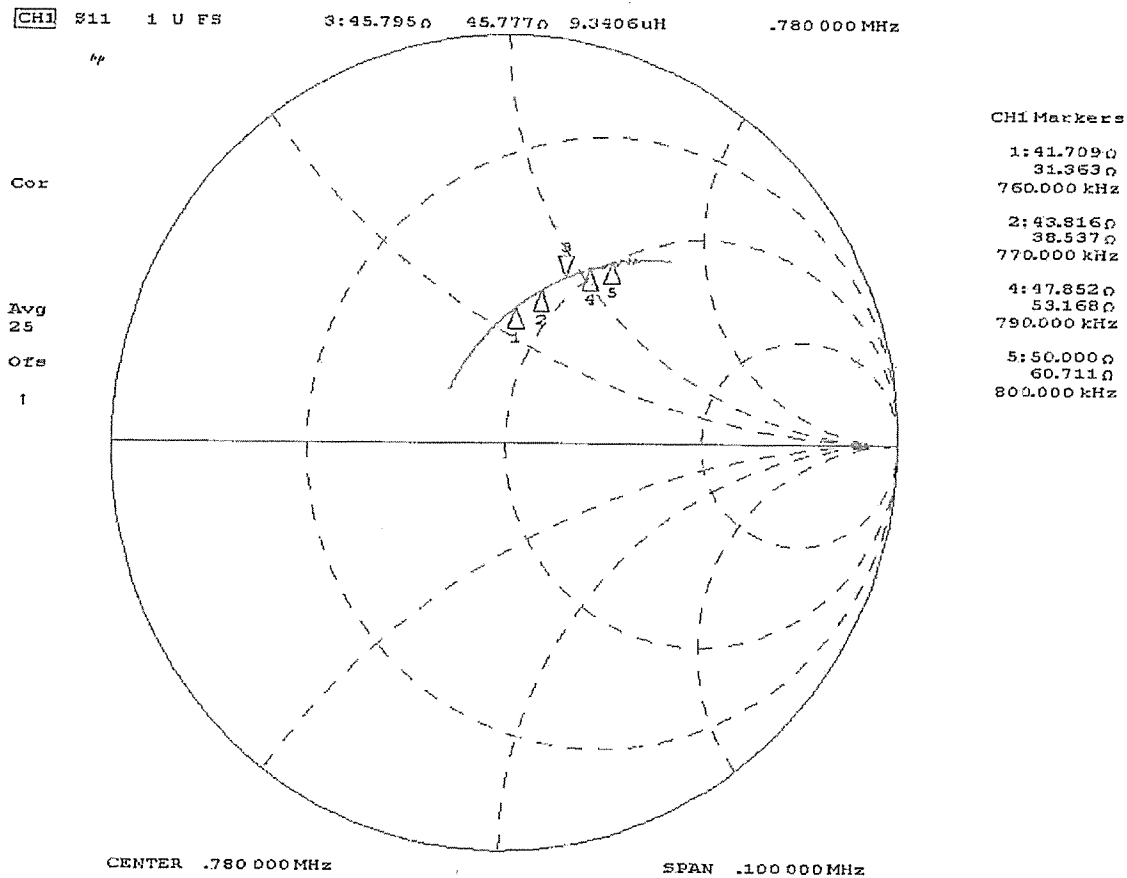
Tower	Resistance	(+/- ohms)	High	Low
1 (west)	45.78	3.83	49.6	41.9
2 (center)	45.37	3.81	49.2	41.6
3 (east)	47.17	3.89	51.1	43.3

	Reactance	(+/- ohms)	High	Low
1 (west)	41.19	3.65	44.8	37.5
2 (center)	45.80	3.83	49.6	42.0
3 (east-center)	45.95	3.84	49.8	42.1

APPLICATION FOR STATION LICENSE
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780 kHz - 50.0 kW DAN
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EXHIBIT #1B

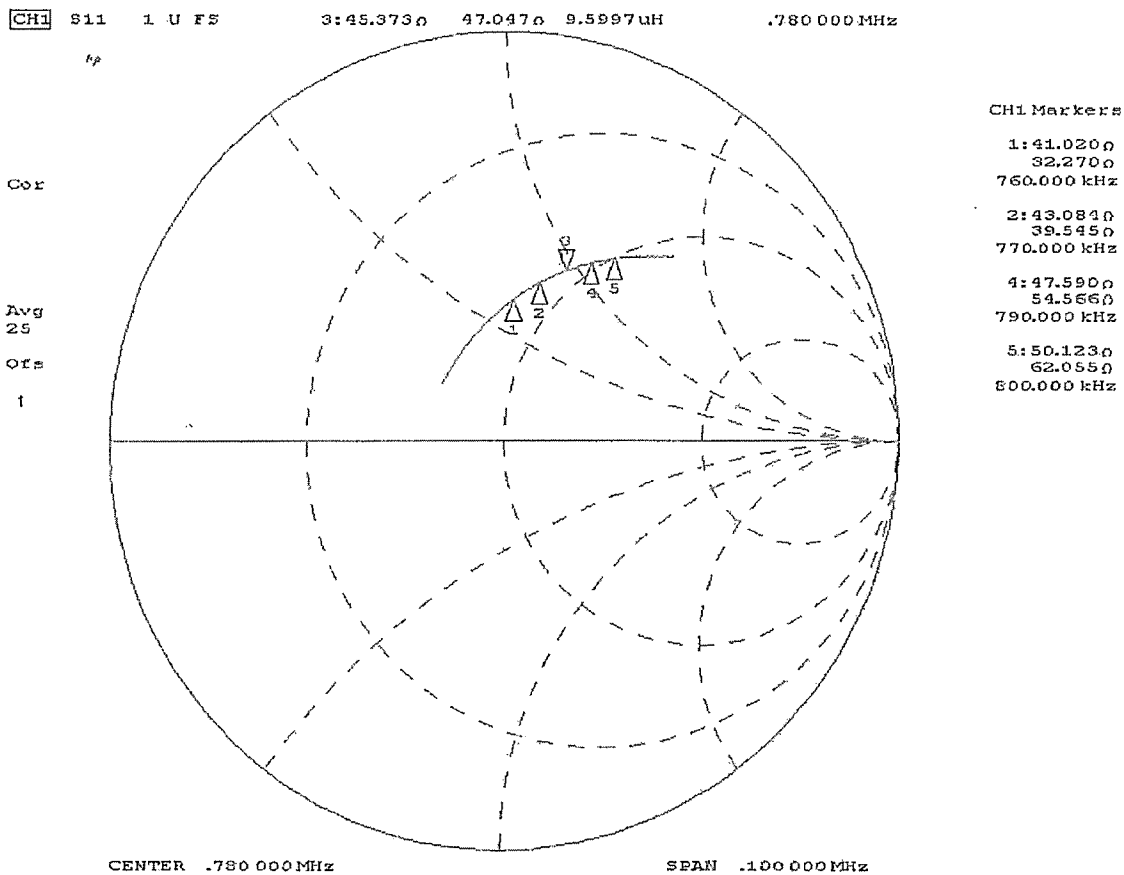
Tower #1 Impedance Measurements



APPLICATION FOR STATION LICENSE
RADIO LICENSE HOLDING CBC, LLC
KKOH AM RADIO STATION
780 kHz - 50.0 kW DAN
RENO, NEVADA
January 2014

EXHIBIT #1C

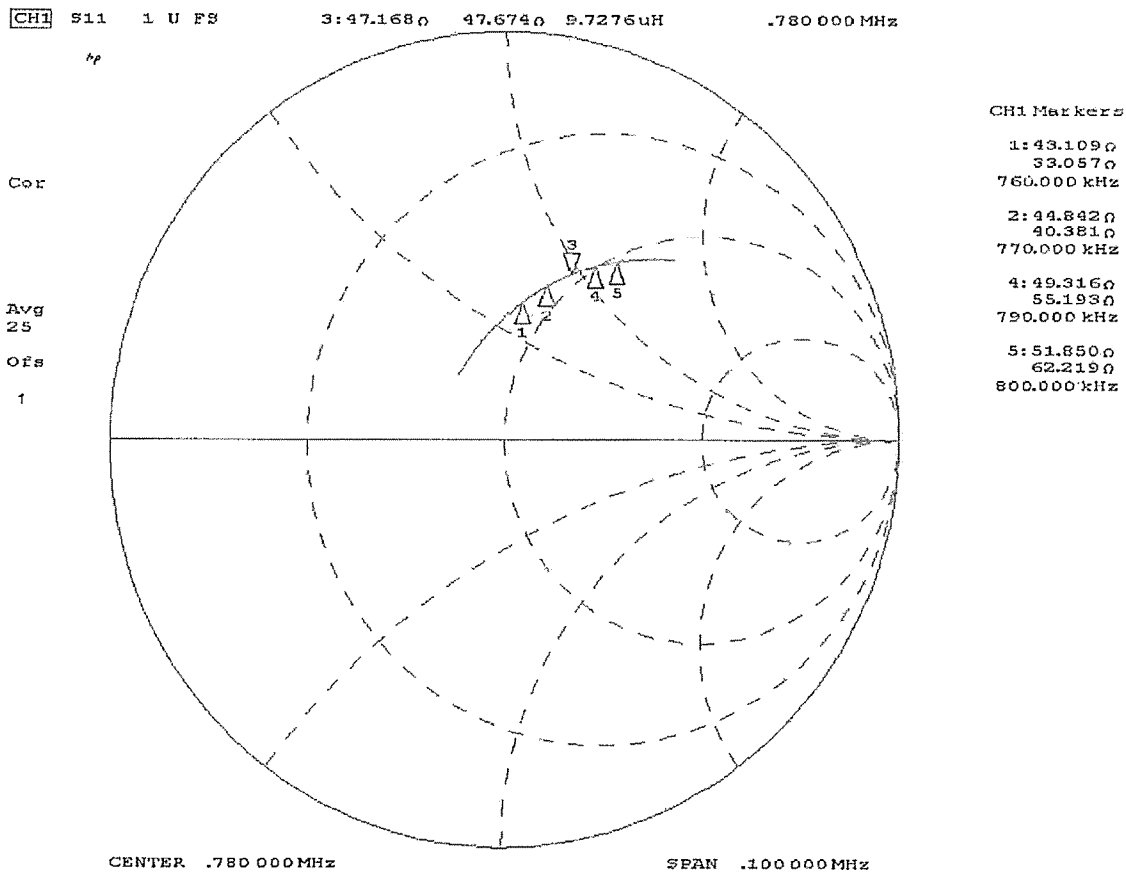
Tower #2 Impedance Measurements



APPLICATION FOR STATION LICENSE
RADIO LICENSE HOLDING CBC, LLC
KKOH AM RADIO STATION
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EXHIBIT #1D

Tower #3 Impedance Measurements



APPLICATION FOR STATION LICENSE
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EXHIBIT #2

Derivation of Operating Parameters for Directional Antenna

The Method of Moments model of the array, following verification with the measured individual open circuited base impedances, was utilized for directional antenna calculations. Calculations were made to determine the complex voltage values for sources located at ground level under each tower of the array to produce current moment sums for the towers that, when normalized, equated to the theoretical field parameters of the authorized directional antenna pattern. With these voltage sources, the tower currents were calculated. Nine segments were used for each tower so that the modeled current pulse at the base of the tower would correspond to the toroid pick-up at the output of the ATU. As the tower structures, sampling pickups, and sampling lines are identical, the antenna monitor ratios and phases corresponding to the theoretical parameters were calculated directly from the modeled tower currents.

During daytime operation, Tower #2 operates non-directionally with Towers #1 and #3 floating at their base.

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EXHIBIT #2A

Daytime Directional Operating Parameters

KKOH Reno NV
780 50 kW

DAYTIME - Non-Directional Tower 2

Tower	Tower Impedance Resistance	Tower Impedance Reactance
1 (center)	45.4	47.05

Day Antenna Impedance	Antenna Current	Transmitter Power Output
Resistance 45.40 Ohms	33.19	50,000 Watts
Reactance 47.05 +J Ohms		

Daytime Antenna Current Tolerances

Tower	Current - (+) 5% (-) 10%
2 (center)	34.01 30.93

KKOH Reno NV
780 50 kW

NIGHTTIME - REFERENCE TOWER #2

Tower	Current Magnitude (amperes)	Current Phase (degrees)	Moment Method Calculations of Antenna Monitor Values		Antenna Monitor As Adjusted Antenna Monitor Values	
			Ratio	Phase	Ratio	Phase
1 (west)	11.48	-59.91	0.475	-59.9	0.475	-59.90
2 (center)	24.15	0.00	1.000	0.0	1.000	0.00
3 (east)	11.92	63.22	0.494	63.2	0.494	63.20

Night Common Point Impedance	Common Point Current	Transmitter Power Output
Resistance 47.35 Ohms	33.35	52650
Reactance 1.59 +J Ohms		

Nighttime Operating Parameter Tolerances

Tower	Ratio (5%)		Phase (3°)	
	(+)	(-)	(+)	(-)
1 (west)	0.499	0.452	-56.9	-62.9
2 (center)	1.000	1.000	0.0	0.0
3 (east)	0.518	0.469	66.2	60.2

APPLICATION FOR STATION LICENSE
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KKOH AM RADIO STATION
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January 2014

EXHIBIT #3

Method of Moments Model Details for Towers Driven Individually

The array of towers was modeled using Westberg Engineering PhasorPro 2.1.1.12. One wire was used to represent each tower. The electrical height of each tower was specified using degrees at the operating frequency of 780 kHz (1.12 MHz), as taken from the theoretical directional antenna specifications. Each tower was modeled using nine segments. As the towers are 90.0° in electrical height, the segment length is 10.0 electrical degrees, in compliance with Section 73.151(c)(1)(iii).

The individual tower characteristics were adjusted to provide a match of its modeled impedances, when presented to a circuit model, that included branches representing the stray feed-line hookup inductances at the tower bases, with the base impedances that were measured at the output jacks of the ATU's, while the other towers of the array were open circuited. The Method of Moments model assumed loads at ground level having the reactance that was calculated for them using the base circuit models for the open circuited towers of the array.

Each tower's modeled height, relative to its physical height, falls within the required range of 75% to 125%, in compliance with Section 73.151(c)(1)(v). Each tower's modeled radius falls within the range of 80% to 150% of the radius of a circle having a circumference

equal to the sum of the widths of the tower sides, which is in compliance with Section

73.151(c)(1)(i). The array consists of identical, uniform cross section towers having a face of 18 inches.

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EXHIBIT #3A

Tower	Physical Height (degrees)	Velocity Factor Adjustment	Modeled Height (degrees)	Modeled Percent of Height	Physical Equivalent Radius (inches)	Modeled Radius (inches)	Percent of Equivalent Radius
1 (west)	90	0.96245	93.51	103.9%	8.594	8.314	96.7%
2 (center)	90	0.95615	94.13	104.6%	8.594	8.314	96.7%
3 (east)	90	0.95444	94.30	104.8%	8.594	8.314	96.7%

Tower	Tower Height Tolerance >75% <125%			Tower Radius Tolerance >80% <150%		
	Height	Minimum	Maximum	Actual	Minimum	Maximum
1 (west)	90	67.5	112.5	8.594	6.875	12.892
2 (center)	90	67.5	112.5	8.594	6.875	12.892
3 (east)	90	67.5	112.5	8.594	6.875	12.892

Tower	Face Size (inches)	Equivalent Radius (inches)
1 (west)	18	8.5944
2 (center)	18	8.5944
3 (east)	18	8.5944

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EXHIBIT #4

Method of Moments Model Details for Directional Antenna Pattern(s)

The array of towers was modeled using Westberg Engineering PhasorPro 2.1.1.12 with the individual tower characteristics that were verified by the individual tower impedance measurements. Calculations were made to determine the complex voltage values for sources located at ground level under each tower of the array to produce current moment sums for the tower that, when normalized, equated to the theoretical field parameters of the authorized directional antenna pattern. The following pages contain details of the method of moments model of the directional antenna patterns.

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EXHIBIT #4A

STATION INFORMATION		
Call Letters	No. Towers	Frequency
KKOH	3	0.7800

TOWER INFORMATION						
	Tower Height (°)	Spacing (°)	Orientation	Face Width (in.)	Radius (in.)	Velocity Factor
Tower 1	90.0000	0.0000	0.0000	18.0000 / 18.0000	8.3138 / 8.3138	0.962450
Tower 2	90.0000	110.0000	75.0000	18.0000 / 18.0000	8.3138 / 8.3138	0.956150
Tower 3	90.0000	220.0000	75.0000	18.0000 / 18.0000	8.3138 / 8.3138	0.954440

MATRIX INFORMATION		
	Impedance (other towers open)	Impedance (other towers shorted)
Tower 1	45.80 + j41.19	57.02 + j45.24
Tower 2	45.37 + j45.80	79.10 + j52.68
Tower 3	47.17 + j45.95	58.73 + j50.04

DETUNED TOWER CURRENTS
Tower 1
0.000000 > 0.000000 - 90.00° above ground
0.257206 > -144.772640 - 80.00° above ground
0.396161 > -144.823956 - 70.00° above ground
0.445230 > -144.910605 - 60.00° above ground
0.402148 > -145.040336 - 50.00° above ground
0.264096 > -145.281544 - 40.00° above ground
0.028549 > -148.767288 - 30.00° above ground
0.308421 > 35.290284 - 20.00° above ground
0.756001 > 34.996561 - 10.00° above ground
1.457813 > 34.839541 - 0.00° above ground
Tower 2
0.000000 > 0.000000 - 90.00° above ground
0.259865 > -144.595099 - 80.00° above ground
0.400466 > -144.658311 - 70.00° above ground
0.450231 > -144.762152 - 60.00° above ground
0.406776 > -144.917296 - 50.00° above ground
0.267196 > -145.206999 - 40.00° above ground
0.028954 > -149.398591 - 30.00° above ground
0.311952 > 35.482162 - 20.00° above ground
0.764615 > 35.126904 - 10.00° above ground
1.473660 > 34.935937 - 0.00° above ground
Tower 3
0.000000 > 0.000000 - 90.00° above ground
0.174744 > 112.218027 - 80.00° above ground
0.266007 > 112.940527 - 70.00° above ground
0.295167 > 113.681317 - 60.00° above ground
0.262492 > 114.555521 - 50.00° above ground
0.167864 > 116.051576 - 40.00° above ground
0.013149 > 147.867846 - 30.00° above ground
0.209074 > -67.447127 - 20.00° above ground
0.496819 > -65.861111 - 10.00° above ground
0.942360 > -65.031564 - 0.00° above ground

ZMatrix		
$45.80 + j41.19$	$15.03 - j23.95$	$-17.85 - j6.10$
$15.03 - j23.95$	$45.37 + j45.80$	$15.19 - j24.34$
$-17.85 - j6.10$	$15.19 - j24.34$	$47.17 + j45.95$

YMatrix		
$0.010762 - j0.008539$	$0.005194 + j0.003890$	$0.000563 - j0.000958$
$0.005194 + j0.003890$	$0.008757 - j0.005833$	$0.005117 + j0.003556$
$0.000563 - j0.000958$	$0.005117 + j0.003556$	$0.009866 - j0.008406$

HMatrix - $[I] = [H] \times [F]$		
$0.014332 + j0.001071$	$0.000495 + j0.000404$	$0.000199 - j0.000355$
$0.000501 + j0.000409$	$0.014154 + j0.001083$	$0.000500 + j0.000408$
$0.000202 - j0.000361$	$0.000502 + j0.000410$	$0.014106 + j0.001085$

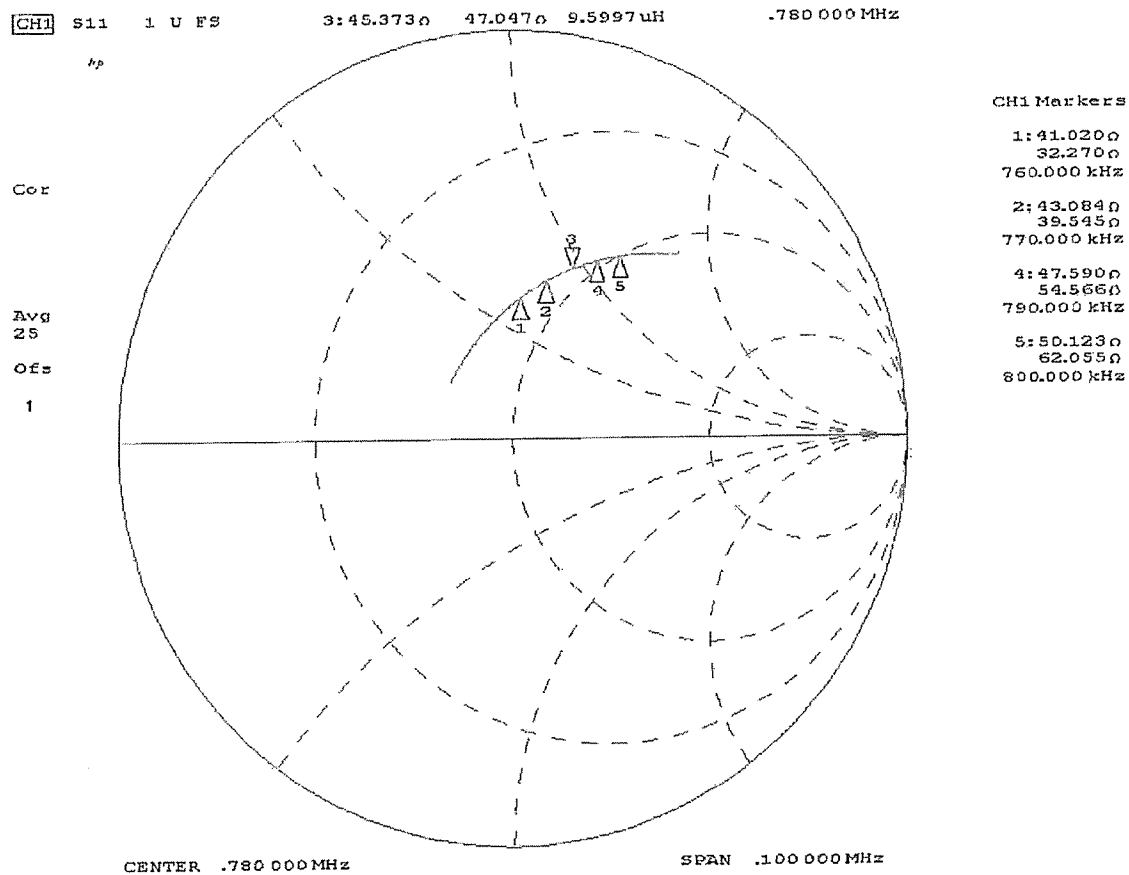
HMatrix-inverse - $[F] = [H]^{-1} \times [I]$		
$69.395175 - j5.097780$	$-2.620059 - j1.655415$	$-0.651718 + j2.004965$
$-2.649487 - j1.673697$	$70.351373 - j5.110384$	$-2.694342 - j1.690683$
$-0.661065 + j2.035262$	$-2.702485 - j1.697041$	$70.488082 - j5.328715$

TOWER CURRENTS	
Tower 1	
0.000000	> 0.000000 - 90.00° above ground
2.697606	> -79.368309 - 80.00° above ground
4.890657	> -78.060827 - 70.00° above ground
6.820110	> -76.645797 - 60.00° above ground
8.465044	> -75.064921 - 50.00° above ground
9.795009	> -73.257163 - 40.00° above ground
10.781569	> -71.136276 - 30.00° above ground
11.403937	> -68.563972 - 20.00° above ground
11.652085	> -65.294636 - 10.00° above ground
11.481404	> -59.905285 - 0.00° above ground
Tower 2	
0.000000	> 0.000000 - 90.00° above ground
5.480471	> -8.922306 - 80.00° above ground
9.988878	> -8.278896 - 70.00° above ground
14.002643	> -7.593365 - 60.00° above ground
17.471282	> -6.840119 - 50.00° above ground
20.322363	> -5.993317 - 40.00° above ground
22.483943	> -5.016382 - 30.00° above ground
23.894349	> -3.850094 - 20.00° above ground
24.503829	> -2.387783 - 10.00° above ground
24.153280	> 0.000000 - 0.00° above ground
Tower 3	
0.000000	> 0.000000 - 90.00° above ground
2.516999	> 59.004107 - 80.00° above ground
4.613353	> 59.379872 - 70.00° above ground
6.505699	> 59.762759 - 60.00° above ground
8.170197	> 60.163659 - 50.00° above ground
9.572475	> 60.592179 - 40.00° above ground
10.677920	> 61.061938 - 30.00° above ground
11.456554	> 61.595187 - 20.00° above ground
11.884659	> 62.231958 - 10.00° above ground
11.921638	> 63.219587 - 0.00° above ground

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EXHIBIT #5A

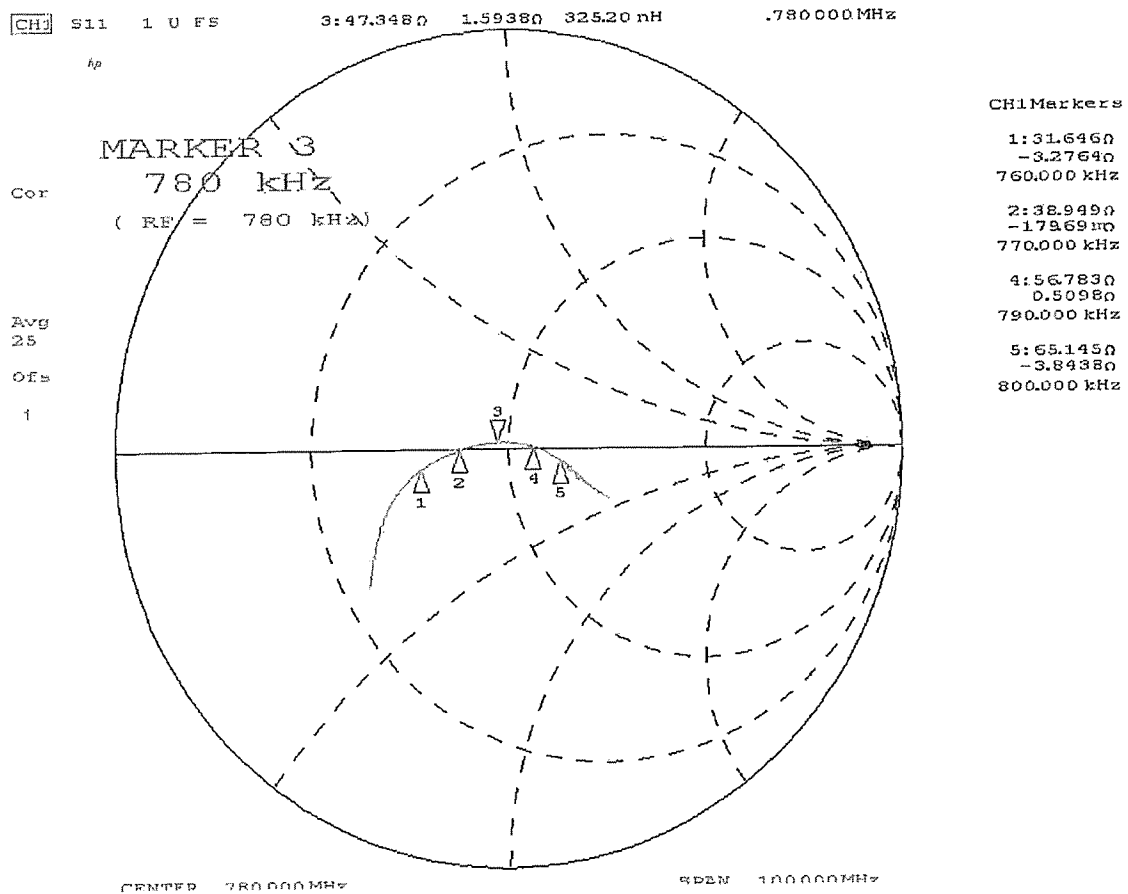
Daytime Tower Base Impedance Measurement



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EXHIBIT #5B

Nighttime Common Point Measurements



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EXHIBIT #6

Sampling System And Measurements

The sample system for KKOH consists of electrical equal lengths of Andrew LDF4-50A coaxial transmission lines terminated into Delta Electronics TCT-1, 0.5 V/A toroid sample transformers. A tabulation of the sample line lengths and characteristic impedances are included in Exhibit #6A. Calculations are included in Exhibits #6B1 and #6B2.

Impedance measurements of the antenna monitor sampling lines with the toroid sample transformers attached were made using an Agilent 8753ES Vector Network Analyzer with an ENI 411 LA RF Power Amplifier and Tunwall Directional Couplers, utilized as a calibrated measurement system. The impedance at the input to the sample lines, terminated by the toroid sample transformers, was measured and tabulated in Exhibits #6C1, #6C2 and #6C3.

Impedance measurements of the antenna monitor sampling lines were made using an Agilent 8753ES Vector Network Analyzer with an ENI 411 LA RF Power Amplifier and Tunwall Directional Couplers, utilized as a calibrated measurement system. The measurements were made looking into the antenna monitor ends of the sampling lines without the sampling lines connected to the toroid samples under open-circuited conditions. Exhibits #6D1, #6D2 and #6D3 detail the sample transmission line measurements with frequencies above and below carrier

frequency where resonance (zero reactance corresponding with low resistance) was found. As the length of a distortionless transmission line is either 90 or 180 electrical degrees at the difference frequency between adjacent frequencies of resonance and frequencies of resonance occurring at odd multiples of 90 degrees electrical length, the sampling line length calculated from the resonant frequency closest to the carrier frequency was found to be between 191.6 and 192.3 electrical degrees, within the 1.0 degree variance, as specified by Section 73.151(c)(2)(i).

In order to determine the characteristic impedance values of the sampling lines, open-circuit measurements were made with frequencies offset to produce +/- 45 degrees of electrical length from resonance. The characteristic impedance was calculated using the following formula where $R_1 + jX_1$ and $R_2 + jX_2$ are the measured impedances at the +45 and -45 degree offset frequencies, respectively:

$$Z_0 = ((R_1^2 + X_1^2)^{1/2} * (R_2^2 + X_2^2)^{1/2})^{1/2}$$

The sampling line characteristic impedance was found to be 51.2 ohms, within the 2.0 ohm variance, as specified by Section 73.151(c)(2)(i).

Toroid current transformer calibration was checked by connection at the antenna monitor with short, equal length jumpers and fed an 780 kHz RF signal into a known load and found to exhibit identical phase and ratio indications on the monitor.

EXHIBIT #6A

Andrew LDF4-50A

Tower Sample System	Sample Transformer Make / Type	Resistance (ohms)	Reactance (ohms)
1 (west)	Delta TCT-1, sn 15089	51.79	0.04
2 (center)	Delta TCT-1, sn 15020	51.82	0.22
3 (east)	Delta TCT-1, sn 15041	51.51	0.44

Tower Sample Line	Open Circuit Resonance (kHz)	Calculated Electrical Length at 960 kHz (degrees)	Measured Characteristic Impedance
1 (west)	1.095165	192.3	51.2
2 (center)	1.094895	192.3	51.2
3 (east)	1.098945	191.6	51.2

0.7

0.35 Degrees : Limit $\pm 0.5^\circ$

0.0 Ohms : Limit +/- 1.0 Ohms

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EXHIBIT #6B1

Sample Line Length / Impedance Calculations / Towers #1 and #2

TOWER 1 SAMPLE LINE

Station Freq (MHz)	Resonant Freq (MHz)		
0.78	1.095165		
Closest To Station Freq		Line Velocity Factor From Mfg. (%)	
1.095165		88	
Length of Line ° @ Station Freq		Calculated Physical Length	
192.3		593.0	feet
		Impedance at Offset Freq	
-45° Offset (MHz)	Resistance	Reactance	Line Characteristic Impedance (Ohms)
0.9126	4.221	-49.826	
+45° Offset (MHz)			51.2
1.2777	7.238	51.910	

TOWER 2 SAMPLE LINE

Station Freq (MHz)	Resonant Freq (MHz)		
0.78	1.094895		
Closest To Station Freq		Line Velocity Factor From Mfg. (%)	
1.094895		88	
Length of Line ° @ Station Freq		Calculated Physical Length	
192.3		593.2	feet
		Impedance at Offset Freq	
-45° Offset (MHz)	Resistance	Reactance	Line Characteristic Impedance (Ohms)
0.9124	4.275	-49.826	
+45° Offset (MHz)			51.2
1.2774	7.418	51.920	

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EXHIBIT #6B2

Sample Line Length / Impedance Calculations Tower #3

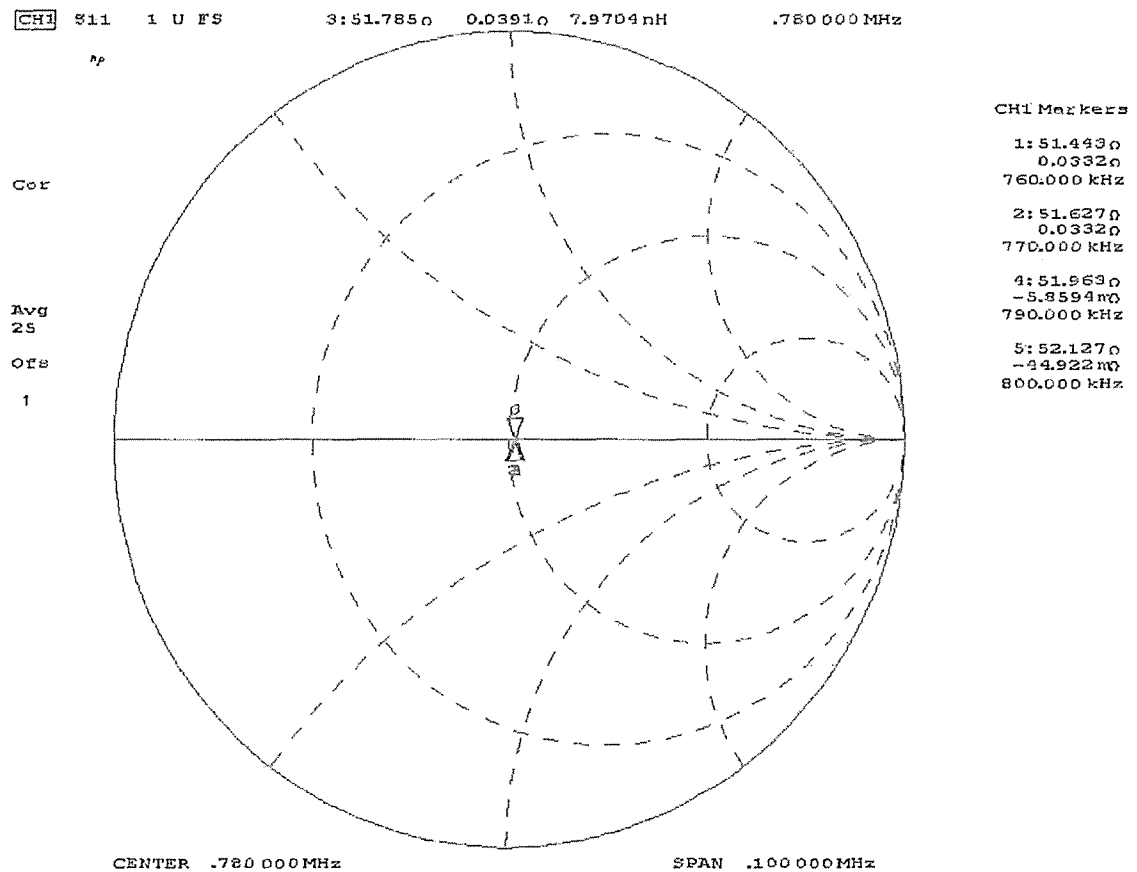
TOWER 3 SAMPLE LINE

Station Freq (MHz)	Resonant Freq (MHz)		
0.78	1.098945		
Closest To Station Freq		Line Velocity Factor From Mfg. (%)	
1.098945		88	
Length of Line ° @ Station Freq		Calculated Physical Length	
191.6		591.0	feet
		Impedance at Offset Freq	
-45° Offset (MHz)	Resistance	Reactance	Line Characteristic Impedance (Ohms)
0.9158	4.244	-49.910	
+45° Offset (MHz)			51.2
1.2821	7.217	51.813	

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EXHIBIT #6C1

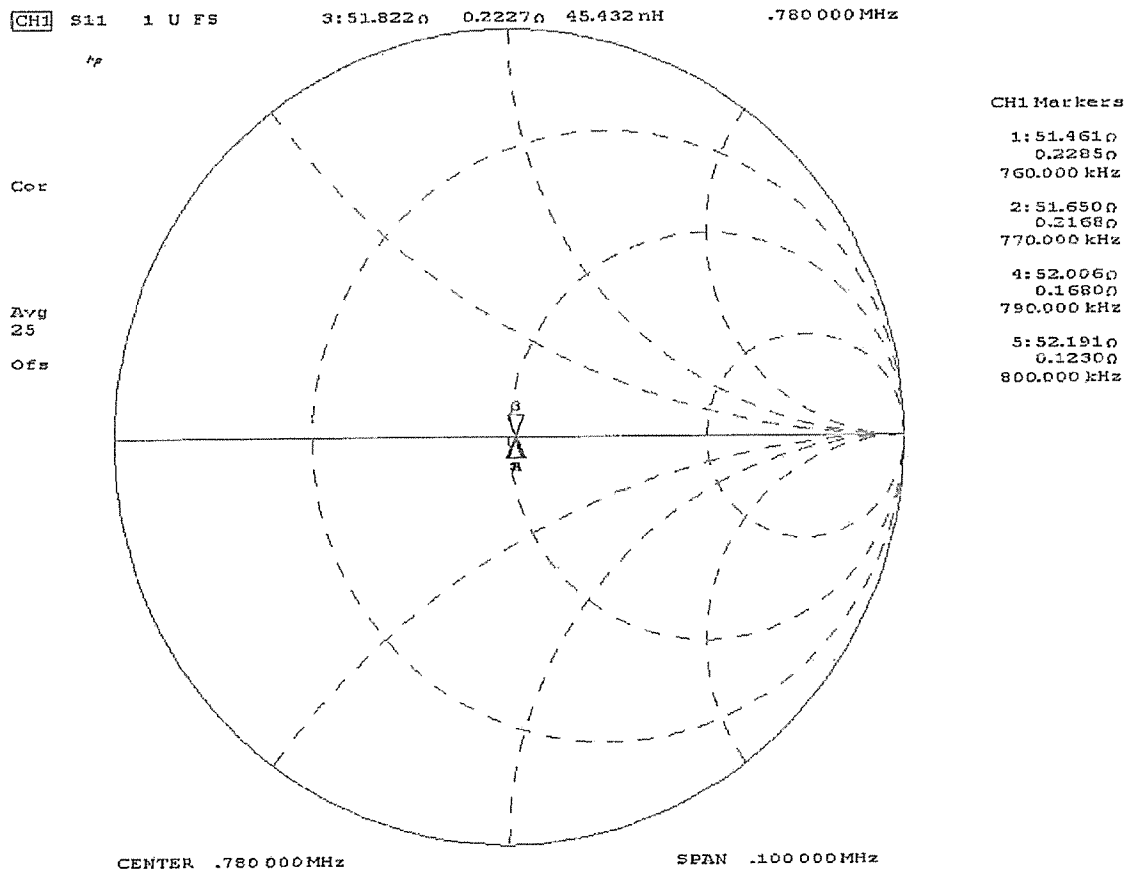
Tower #1 Sample and Toroid



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EXHIBIT #6C2

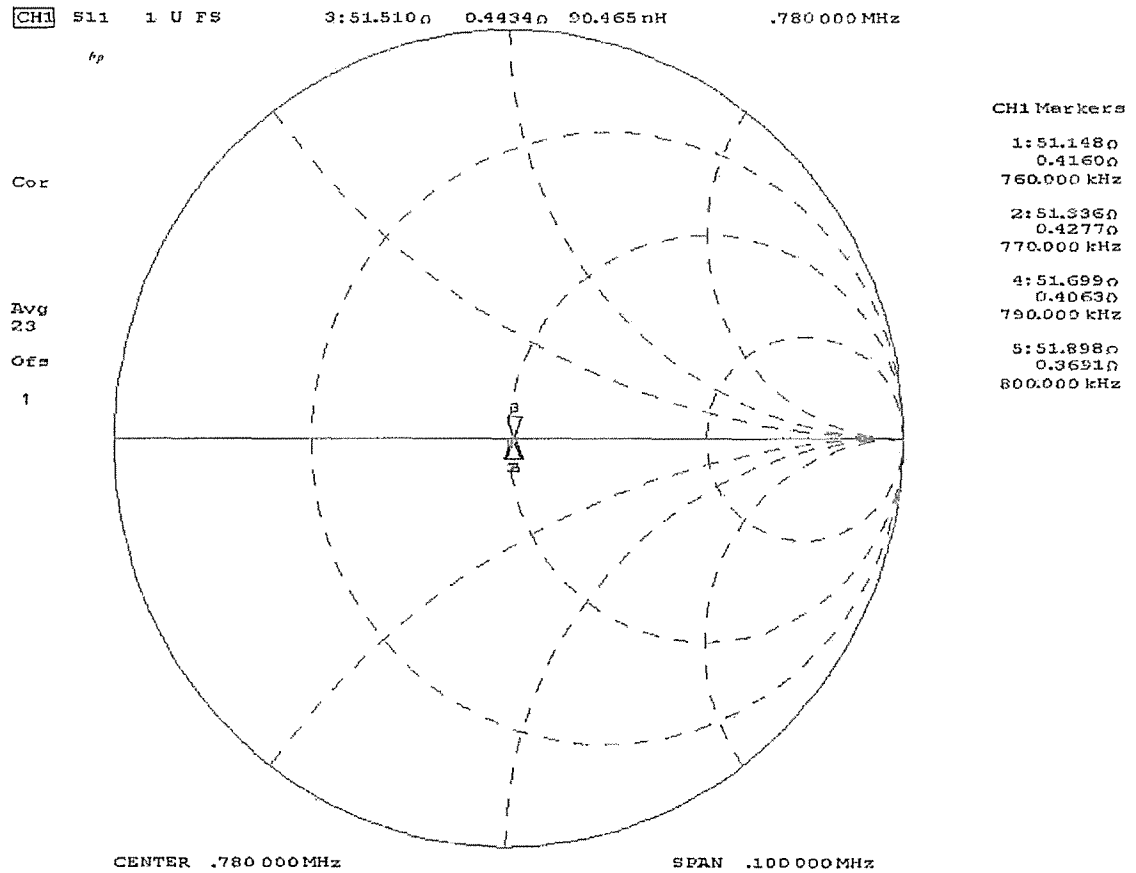
Tower #2 Sample Line and Toroid



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EXHIBIT #6C3

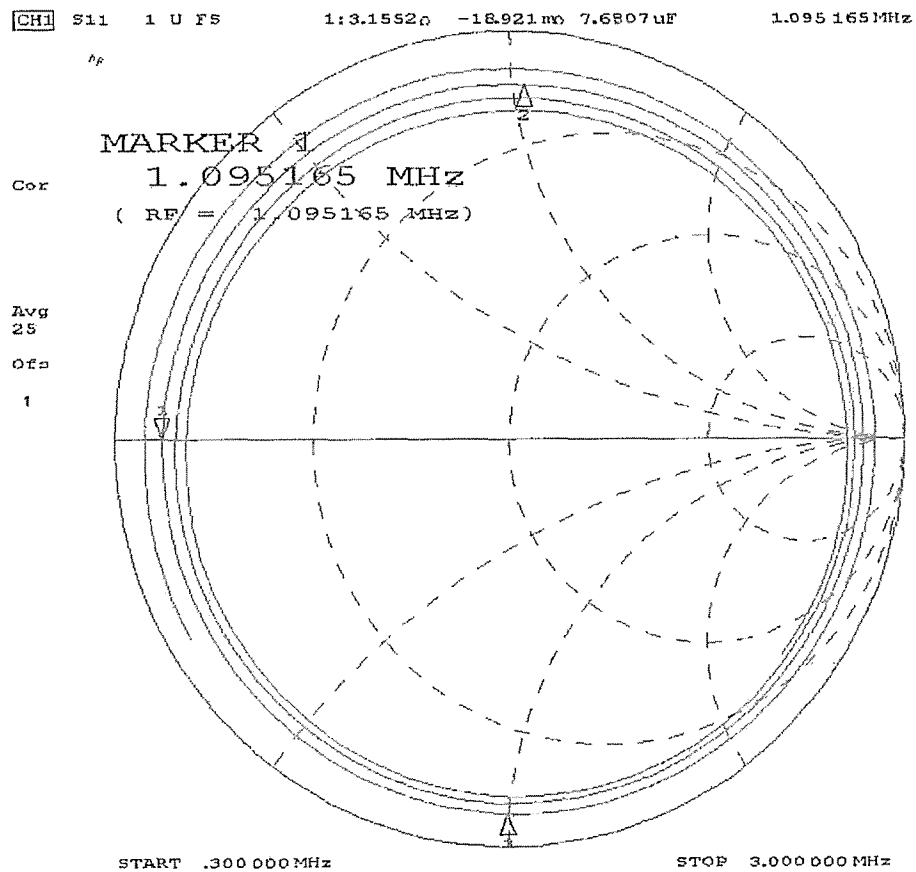
Tower #3 Sample Line and Toroid



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EXHIBIT #6D1

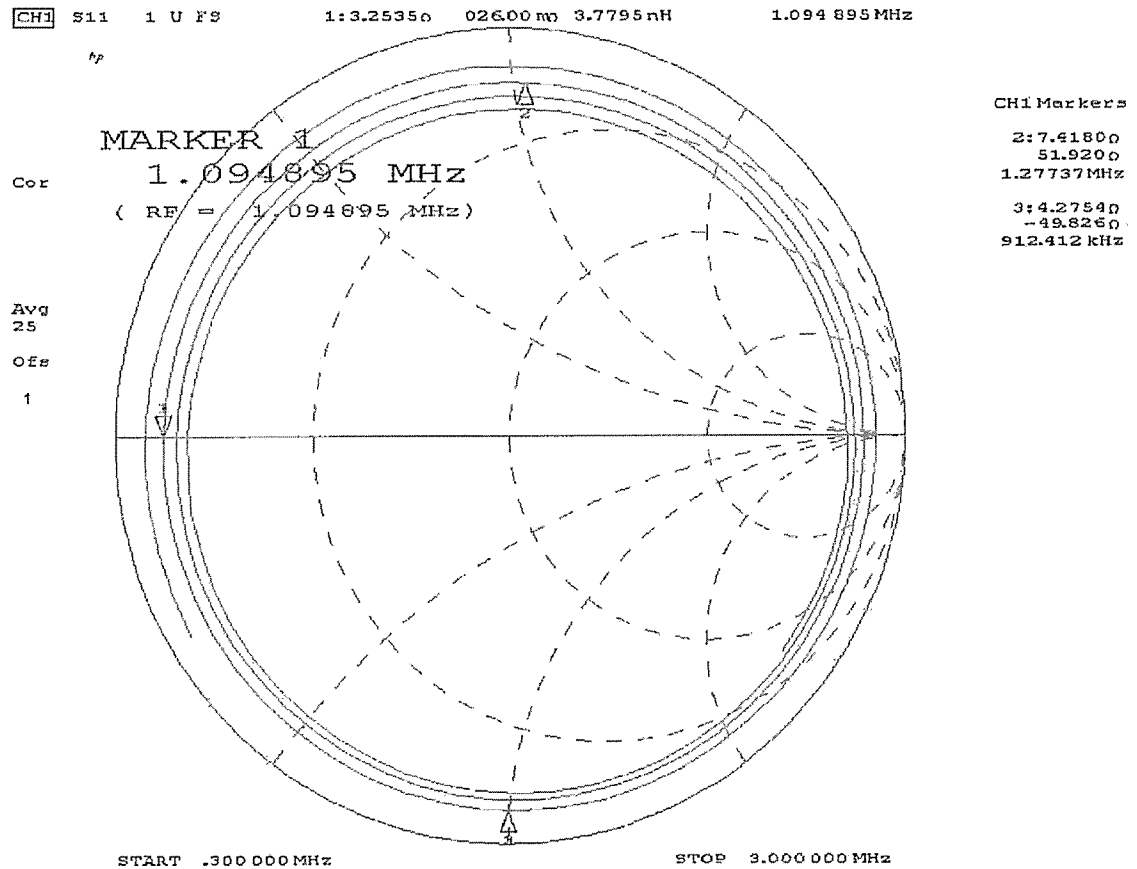
KKOH Sample Line - Tower #1



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EXHIBIT #6D2

KKOH Sample Line - Tower #2



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EXHIBIT #6D3

KKOH Sample Line - Tower #3

CH1 S11 1 U FS 1:3.17040 -10.254m 14.124uF 1.098945MHz

hp

MARKER 1
1.098945 MHz
(REF = 1.098945 MHz)

Cor

Avg
25

Ofs

1

CH1 Markers

2:7.21680
51.8130
1.28210MHz
3:4.24410
-49.9100
915.787 kHz

START .300000MHz

STOP 3.000000MHz

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EXHIBIT #7

Reference Field Strength Measurements

Nighttime reference field strength measurements were made at three locations along radials on the station's monitor point azimuths (60.0°, 75.0°, and 90.0°), as specified in the station's license for the directional array. In addition, three locations were measured in the station's nighttime major lobes of 202.0° and 307.0° and the station's minor null radial of 255°. The tabulated measured field strengths, descriptions, and GPS coordinates for the reference measurement points during directional operation are attached as Exhibits #7A, #7B, #7C and #7D. The GPS unit used was a Garmin Oregon 400T with WAAS activated, Datum NAD '27, and coordinate format DD-MM-SS.s. Due to the remote location of the transmitter with little or no road names or other descriptions available, detailed routes to the measurement locations are included with the tabulation of the field strengths. In addition, where no street reference at all was available photographs of the measurement locations are included for reference.

KKOH Reno NV Nighttime Array Field Measurements
780 50 kW

Radial (°T)	Point #	N. Latitude	W. Longitude	Dist (mi)	Dist (km)	mv/m	Time (24 hr)	Date	Description
Monitor Point Radial Specified on Station License									
60.0	1	39-41-37.7	119-46-00.4	2.25	3.62	162.00	1529	7/11/2013	Array side of dirt road Beginning at the North gate of the KKOH transmitter facility, proceed North to the site's electrical service disconnect. Turn right and proceed East along an unnamed dirt road parallel to the overhead power line for approximately 1.1 miles. Turn left and proceed North along an unnamed dirt road, parallel to the overhead power line for approximately 1.0 mile. Turn right and proceed East along an unnamed dirt road, parallel to the overhead power line for approximately 0.5 mile to power pole # 222207. The measurement point is approximately 35 paces in the direction of Peavine Peak (SW from this location). It is marked with a painted stone and with a painted rebar stake.
60.0	2	39-42-14.7	119-44-37.0	3.67	5.91	17.00	1547	7/11/2013	Array side of Eagle Canyon Located on the West side of Eagle Canyon Drive, approximately 0.05 miles north of the southerly intersection with Fancy Dance Drive. The point is marked with a painted line at the edge of the roadway.
60.0	3	39-42-20.1	119-44-20.3	3.95	6.36	14.00	1605	7/11/2013	At fork just below water tank Beginning at the North gate of the KKOH transmitter facility, proceed North to the site's electrical service disconnect. Turn right and proceed East along an unnamed dirt road parallel to the overhead power line for approximately 1.1 miles. Turn left and proceed North along an unnamed dirt road, parallel to the overhead power line for approximately 1.0 mile. Turn right and proceed East along an unnamed dirt road, parallel to the overhead power line for approximately 0.2 miles. Turn left and proceed Northeast along an unnamed dirt road for approximately 1.4 miles to a cattle guard. Cross the cattle guard and proceed an additional 0.2 miles to Eagle Canyon Drive, a paved road. Exit Eagle Canyon Drive to the left at the intersection with Fancy Dance Drive / Loop Road and proceed uphill along a well-defined Jeep Trail for approximately 0.2 miles toward a water storage tank. The measurement location is at the fork in the Jeep Trail just below the water tank, it is marked with a painted stone and a painted rebar stake.

Geographic Coordinates Datum: NAD '27

GPS: Garmin Oregon 400T : WAAS Enabled

Latitude and Longitude Format: DD-MM-SS.s

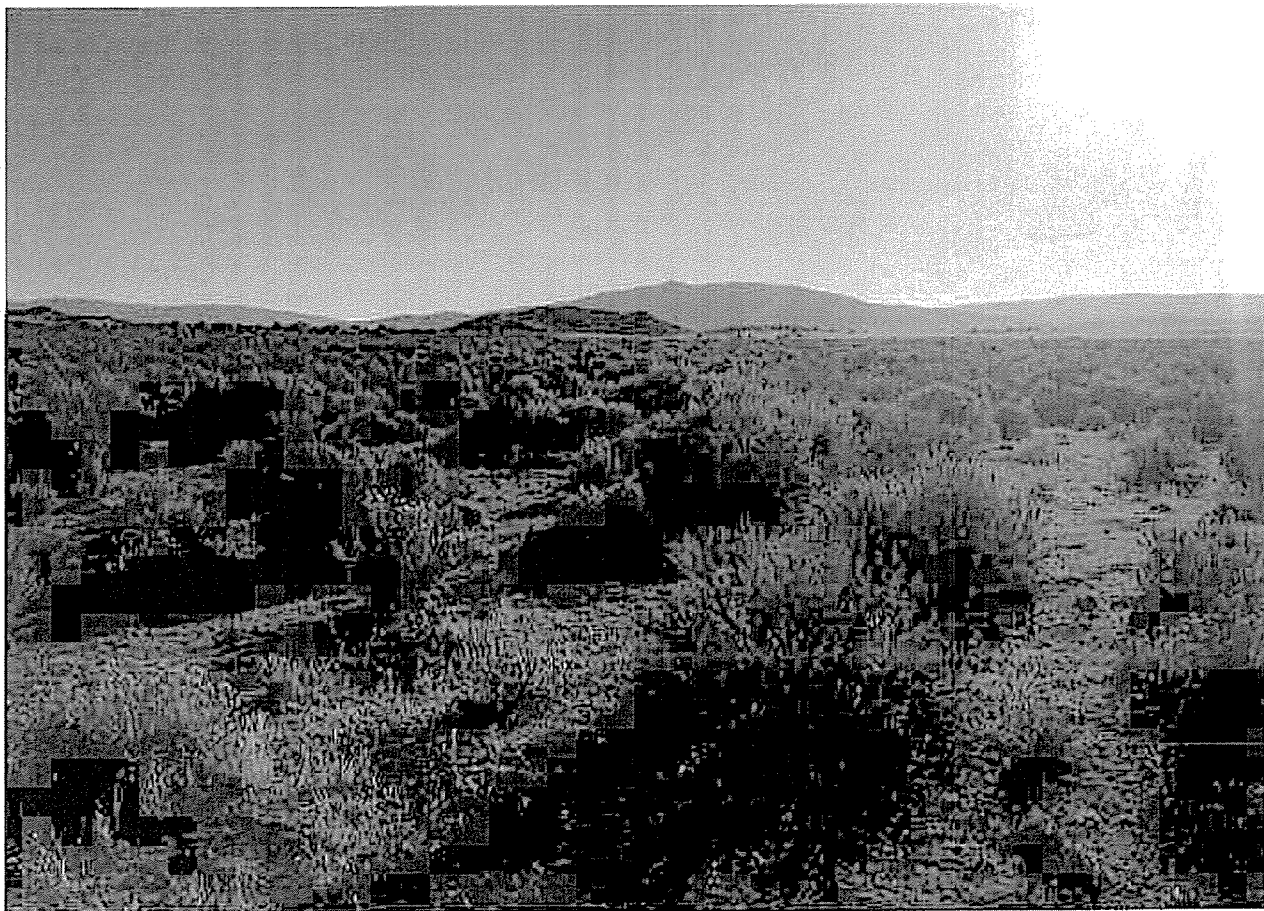
FIM: Potomac : FIM-4100 : SN 0185 : Calibrated December 22, 2009

Field Measurements: Martin Stabbert

EXHIBIT #7A1
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EXHIBIT #7A2



Reference Field Strength Measurement Location
60.0° Azimuth
Point #1

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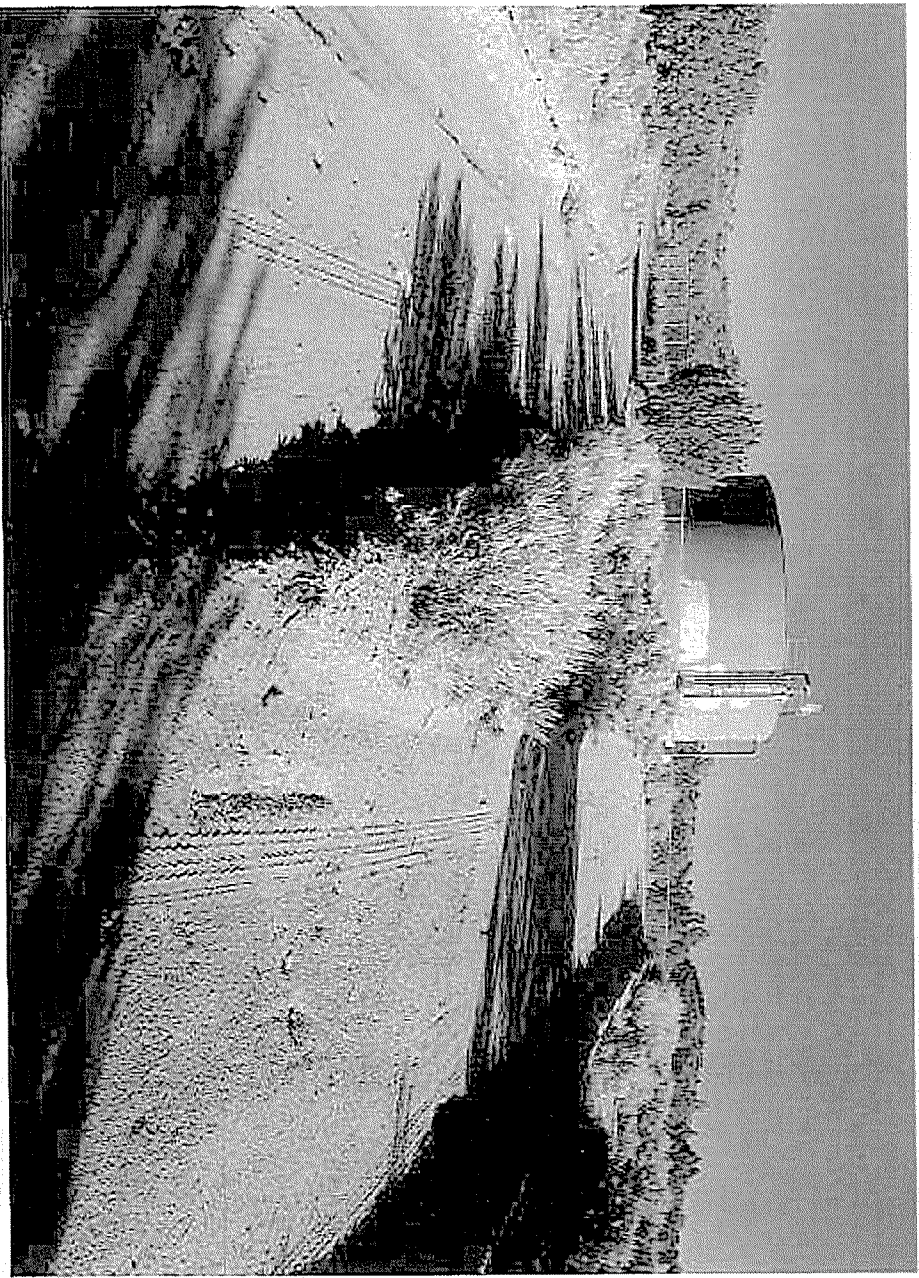
EXHIBIT #7A3



Reference Field Strength Measurement Location
60.0° Azimuth
Point #2

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EXHIBIT #7A4



Reference Field Strength Measurement Location
60.0° Azimuth
Point #3

KKOH Reno NV Nighttime Array Field Measurements
780 50 kW

Radial (°T)	Point #	N. Latitude	W. Longitude	Dist (mi)	Dist (km)	mv/m	Time (24 hr)	Date	Description
Monitor Point Radial Specified on Station License									
75.0	1	39-41-00.5	119-46-28.6	1.58	2.54	20.30	1321	7/11/2013	Array side, fork in road Beginning at the North gate of the KKOH transmitter facility, proceed North to the site's electrical service disconnect. Turn right and proceed East along an unnamed dirt road parallel to the overhead power line for approximately 1.1 miles. Then proceed further along a well defined Jeep Trail toward the northeast for approximately 0.6 miles. Turn left and travel downhill toward the northwest along a Jeep Trail for approximately 0.2 miles to a fork in the trail. The measurement point is located 5 paces toward the array from this location. It is marked with a painted stone and a painted rebar stake.
75.0	2	39-41-16.3	119-45-12.0	2.75	4.43	34.30	1622	7/11/2013	Original Monitor Point Located along a fence approximately 200 feet southeast of the cattle guard at the southern Eagle Canyon Drive entrance to the Reno Sparks Indian Colony. The point is marked with a painted T-bar stake.
75.0	3	39-41-57.1	119-41-55.1	5.76	9.27	15.70	1448	7/11/2013	Array side of highway Located on the west side of Pyramid Highway, approximately 0.15 miles north of the intersection with Landmark Drive. The point is marked with a painted line at the edge of the roadway.

Geographic Coordinates Datum: NAD '27

Latitude and Longitude Format: DD-MM-SS.s

FIM: Potomac : FIM-4100 : SN 0185 : Calibrated December 22, 2009

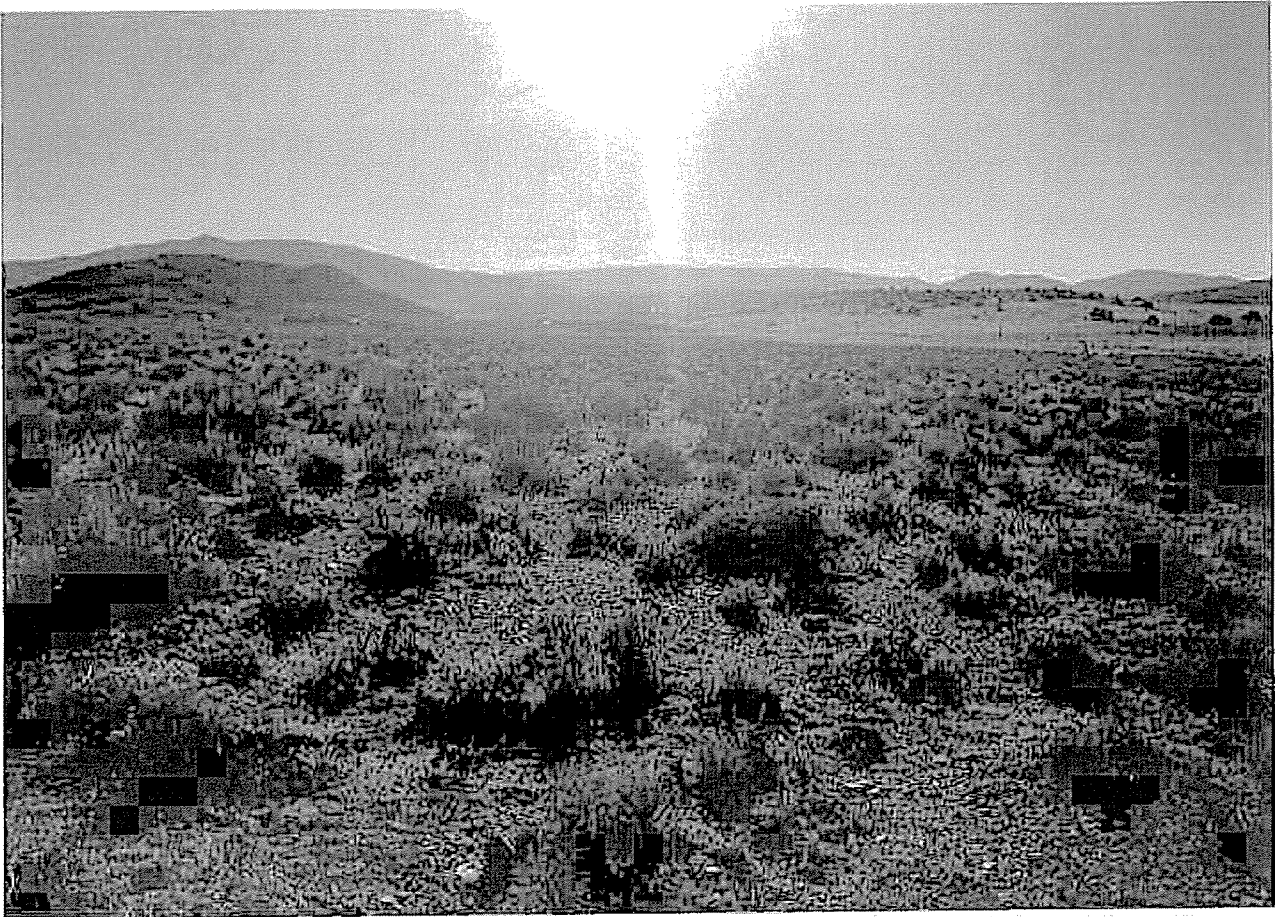
GPS: Garmin Oregon 400T : WAAS Enabled

Field Measurements: Martin Stabbert

EXHIBIT #7B1
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EXHIBIT #7B2



Reference Field Strength Measurement Location
75.0° Azimuth
Point #1

APPLICATION FOR STATION LICENSE
RADIO LICENSE HOLDING CBC, LLC
KKOH AM RADIO STATION
780 kHz - 50.0 kW DAN
RENO, NEVADA
January 2014

EXHIBIT #7B3



Reference Field Strength Measurement Location
75.0° Azimuth
Point #3

KKOH Reno NV Nighttime Array Field Measurements
780 50 kW

Radial (°T)	Point #	N. Latitude	W. Longitude	Dist (mi)	Dist (km)	mv/m	Time (24 hr)	Date	Description
Monitor Point Radial Specified on Station License									
90.0	1	39-40-39.1	119-46-17.4	1.70	2.74	34.60	1336	7/11/2013	Original Monitor Point Beginning at the North gate of the KKOH transmitter facility, proceed North to the site's electrical service disconnect. Turn right and proceed East along an unnamed dirt road parallel to the overhead power line for approximately 1.1 miles. Then proceed further along a well defined Jeep Trail toward the Northeast for approximately 0.5 miles. Turn right and travel uphill to the south along a rugged Jeep Trail for approximately 0.2 miles to the measurement point. the measurement point is located on the east side of the trail at an obvious turn-around. It is marked with a painted stone and painted rebar stake.
90.0	2	39-40-39.2	119-45-53.0	2.06	3.32	64.00	1630	7/11/2013	Array side of highway Located on the West side of Eagle Canyon Drive approximately 1.1 miles south of the cattle guard at the entrance to the Reno Sparks Indian Colony. The point is marked with a painted line at the edge of the roadway.
90.0	3	39-40-39.3	119-41-41.2	5.77	9.29	12.40	1434	7/11/2013	South side of Sha Neva Road Located across the street from 11745 Terra Linda. The point is marked with a painted line at the edge of the roadway.

Geographic Coordinates Datum: NAD '27

GPS: Garmin Oregon 400T : WAAS Enabled

Latitude and Longitude Format: DD-MM-SS.s

FIM: Potomac : FIM-4100 : SN 0185 : Calibrated December 22, 2009

Field Measurements: Martin Stabbert

EXHIBIT #7C1
APPLICATION FOR STATION LICENSE
RADIO LICENSE HOLDING CBC, LLC
KKOH AM RADIO STATION
780 kHz - 50.0 kW DAN
RENO, NEVADA
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APPLICATION FOR STATION LICENSE
RADIO LICENSE HOLDING CBC, LLC
KKOH AM RADIO STATION
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RENO, NEVADA
January 2014

EXHIBIT #7C2



Reference Field Strength Measurement Location
90.0° Azimuth
Point #2

KKOH Reno NV Nighttime Array Field Measurements
780 50 kW

Radial (°T)	Point #	N. Latitude	W. Longitude	Dist (mi)	Dist (km)	mv/m	Time (24 hr)	Date	Description
Major Lobe Radial									
202.0	1	39-38-42.3	119-49-13.7	2.42	3.89	911.00	1229	8/23/2013	Painted fence post on west side of road From Lemmon Drive, turn northeast on Deodar Way and proceed 0.2 miles to an unnamed dirt road. Turn right and proceed southeast and uphill approximately 0.4 miles to power pole #223503. The point is on the west side of the dirt road, approximately 23 paces northwest of power pole #23503. the point is marked with a painted fence post and a painted rebar stake.
202.0	2	39-37-21.2	119-49-56.1	4.10	6.60	335.00	1254	8/23/2013	NE corner of Tamra Dr & Jays Place The point is marked with a painted line at the edge of the roadway.
202.0	3	39-36-00.5	119-50-38.5	5.76	9.27	181.00	1316	8/23/2013	NE corner of W entrance to Skyline Mobile Home Park Northeast side of the west entrance to Skyline Mobile Home Park on North Virginia Street. The point is marked with a painted line at the edge of the roadway.

Geographic Coordinates Datum: NAD '27

GPS: Garmin Oregon 400T : WAAS Enabled

Latitude and Longitude Format: DD-MM-SS.s

FIM: Potomac : FIM-4100 : SN 0185 : Calibrated December 22, 2009

Field Measurements: Martin Stabbert

EXHIBIT #7D1
APPLICATION FOR STATION LICENSE
RADIO LICENSE HOLDING CBC, LLC
KKOH AM RADIO STATION
780 kHz - 50.0 kW DAN
RENO, NEVADA
January 2014

KKOH Reno NV Nighttime Array Field Measurements
780 50 kW

Radial (°T)	Point #	N. Latitude	W. Longitude	Dist (mi)	Dist (km)	mv/m	Time (24 hr)	Date	Description
Minor Null Radial									
255.0	1	39-40-16.6	119-50-01.4	1.67	2.69	842.00	1754	7/11/2013	On walking path Located along a paved walking path, 9 paces northwest of the intersection of Chickadee Drive and Tupelo Street. The point is marked by a painted line of the edge of the roadway.
255.0	2	39-40-01.5	119-51-14.1	2.78	4.47	620.00	1807	7/11/2013	Array side of road Located on the east side of the roadway, across from the driveway entrance to the residence at 365 Ramsey Way. The point is marked with a painted line on the edge of the roadway.
255.0	3	39-39-23.5	119-54-18.0	5.59	9.00	304.00	1841	7/11/2013	Rock on array side of road Located 3 paces east of the roadway and 30 paces north of the northern drive entrance to the residence at 10575 Osage Way. The point is marked with a Painted stone and a painted rebar stake.

Geographic Coordinates Datum: NAD '27

GPS: Garmin Oregon 400T : WAAS Enabled

Latitude and Longitude Format: DD-MM-SS.s

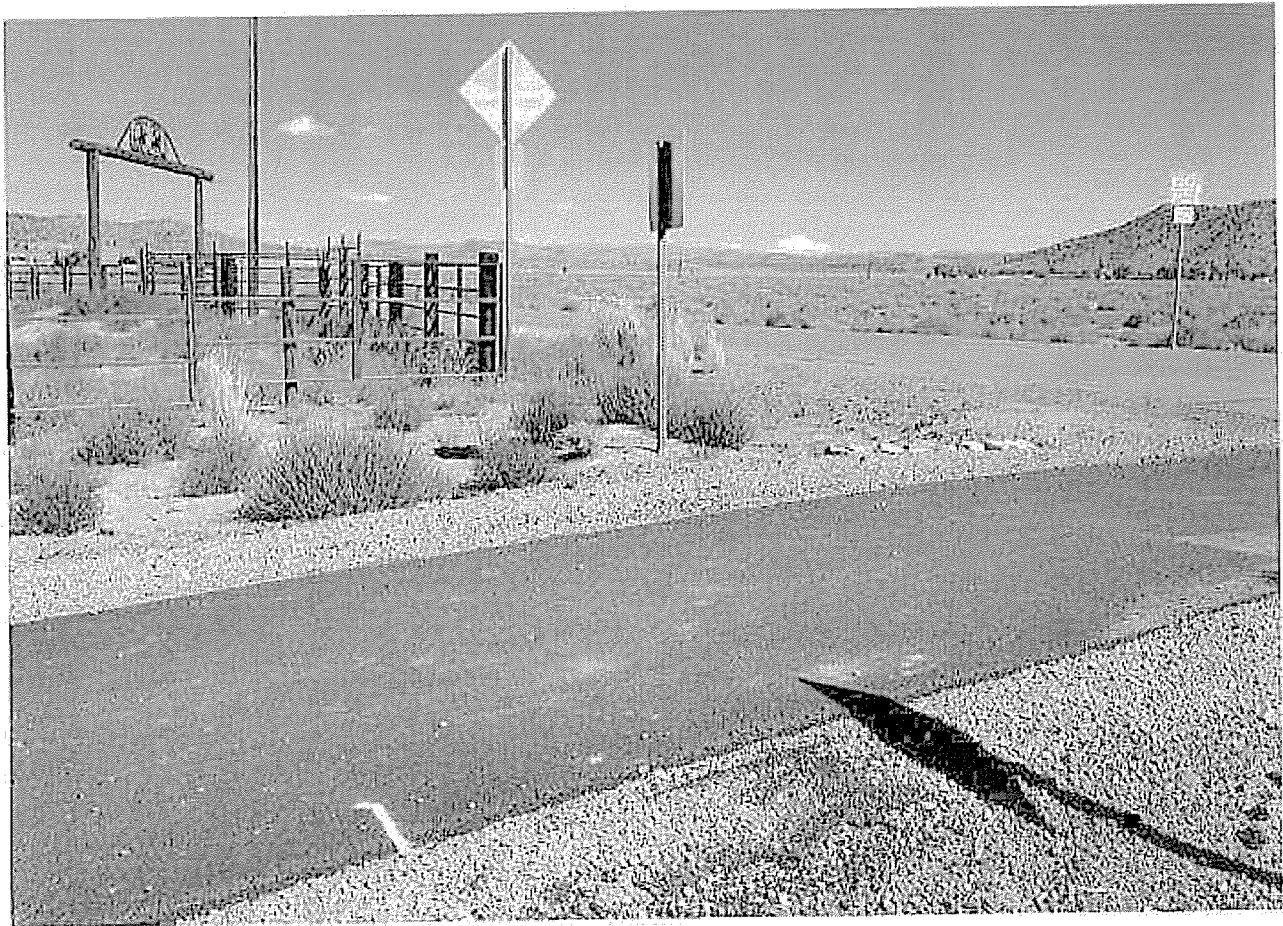
FIM: Potomac : FIM-4100 : SN 0185 : Calibrated December 22, 2009

Field Measurements: Martin Stabbert

EXHIBIT #7E1
APPLICATION FOR STATION LICENSE
RADIO LICENSE HOLDING CBC, LLC
KKOH AM RADIO STATION
780 kHz - 50.0 kW DAN
RENO, NEVADA
January 2014

APPLICATION FOR STATION LICENSE
RADIO LICENSE HOLDING CBC, LLC
KKOH AM RADIO STATION
780 kHz - 50.0 kW DAN
RENO, NEVADA
January 2014

EXHIBIT #7E2



Reference Field Strength Measurement Location
255.0° Azimuth
Point #1

APPLICATION FOR STATION LICENSE
RADIO LICENSE HOLDING CBC, LLC
KKOH AM RADIO STATION
780 kHz - 50.0 kW DAN
RENO, NEVADA
January 2014

EXHIBIT #7E3



Reference Field Strength Measurement Location
255.0° Azimuth
Point #2

APPLICATION FOR STATION LICENSE
RADIO LICENSE HOLDING CBC, LLC
KKOH AM RADIO STATION
780 kHz - 50.0 kW DAN
RENO, NEVADA
January 2014

EXHIBIT #7E4



Reference Field Strength Measurement Location
255.0° Azimuth
Point #3

KKOH Reno NV Nighttime Array Field Measurements
780 50 kW

Radial (°T)	Point #	N. Latitude	W. Longitude	Dist (mi)	Dist (km)	mv/m	Time (24 hr)	Date	Description
Major Lobe Radial									
307.0	1	39-41-34.6	119-49-47.9	1.77	2.85	1150.00	1431	8/23/2013	Middle of street 11520 Oregon Street Middle of the roadway across from the front door of the residence at 11520 Oregon Street. The point is marked with a painted line in the center of the roadway.
307.0	2	39-42-52.7	119-52-02.6	4.26	6.86	320.00	1406	8/23/2013	East side of American Flat Road Located 8 paces east of American Flat road, approximately 1.8 miles south of Antelope Valley Road. The point is marked with a painted stone and a painted rebar stake.
307.0	3	39-43-21.8	119-52-52.8	5.18	8.34	308.00	1348	8/23/2013	W side of Red Rock Road Located on the west side of the intersection of Red Rock Road and Antelope Valley Road, 5 paces south of two telephone company risers. The point is marked with a painted stone and a painted rebar stake. & Antelope Valley Road near 2 telco risers

Geographic Coordinates Datum: NAD '27

GPS: Garmin Oregon 400T : WAAS Enabled

Latitude and Longitude Format: DD-MM-SS.s

FIM: Potomac : FIM-4100 : SN 0185 : Calibrated December 22, 2009

Field Measurements: Martin Stabbert

EXHIBIT #7F
APPLICATION FOR STATION LICENSE
RADIO LICENSE HOLDING CBC, LLC
KKOH AM RADIO STATION
780 kHz - 50.0 kW DAN
RENO, NEVADA
January 2014

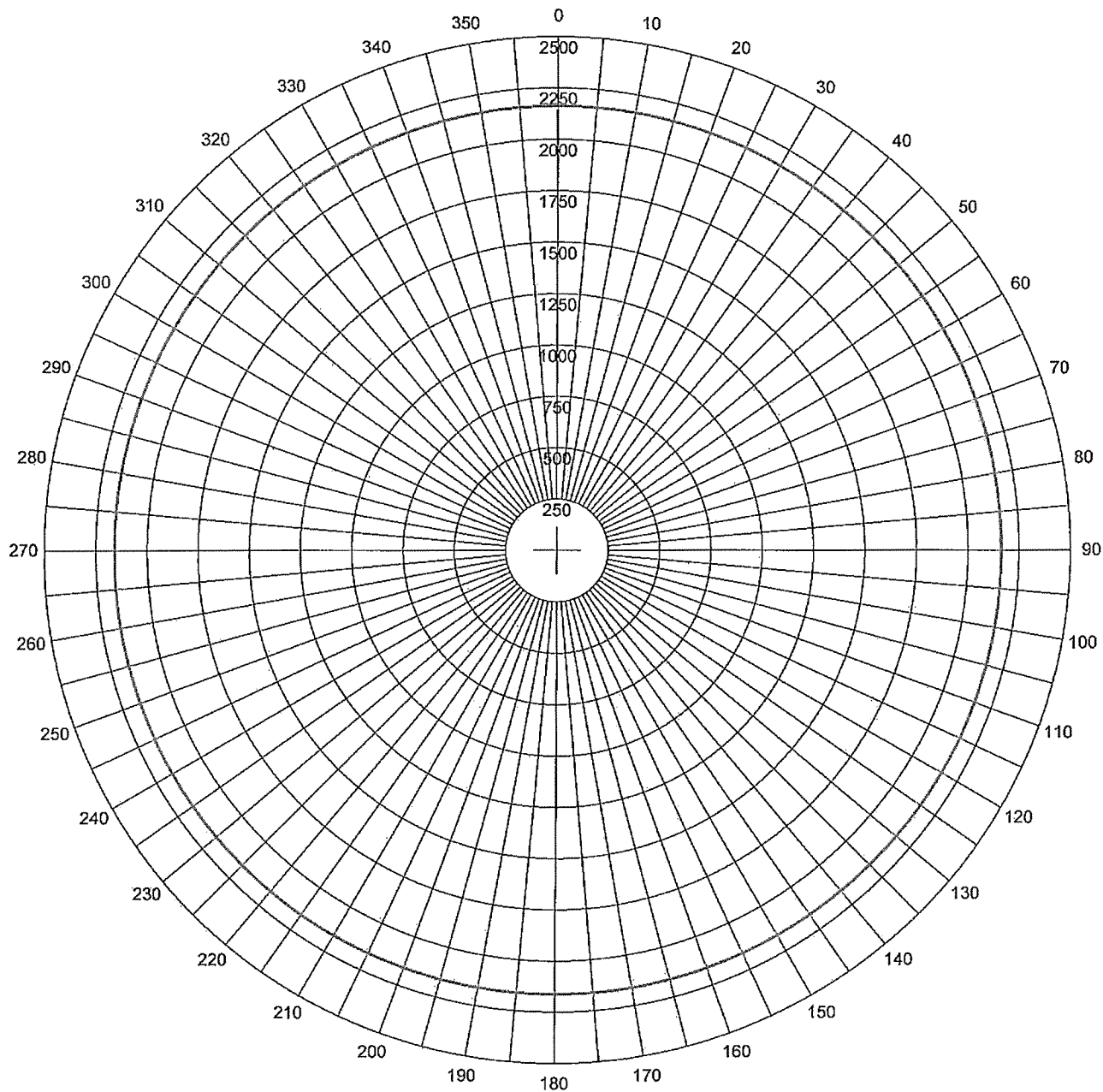
APPLICATION FOR STATION LICENSE
RADIO LICENSE HOLDING CBC, LLC
KKOH AM RADIO STATION
780 kHz - 50.0 kW DAN
RENO, NEVADA
January 2014

EXHIBIT #8

Antenna Monitor Calibration

The antenna monitor at the site is a Potomac Instruments AM-1901, SN 889. The Antenna Monitor and was calibrated on site according to the manufacturer's specifications. In addition to the manufacturer's calibration, a check of each antenna input using equal length jumpers referencing the reference tower (Tower #2) was made. All inputs were found to indicate within the manufacturer's specifications.

KKOH - Non-Directional Day



Theoretical Horizontal Plane Pattern

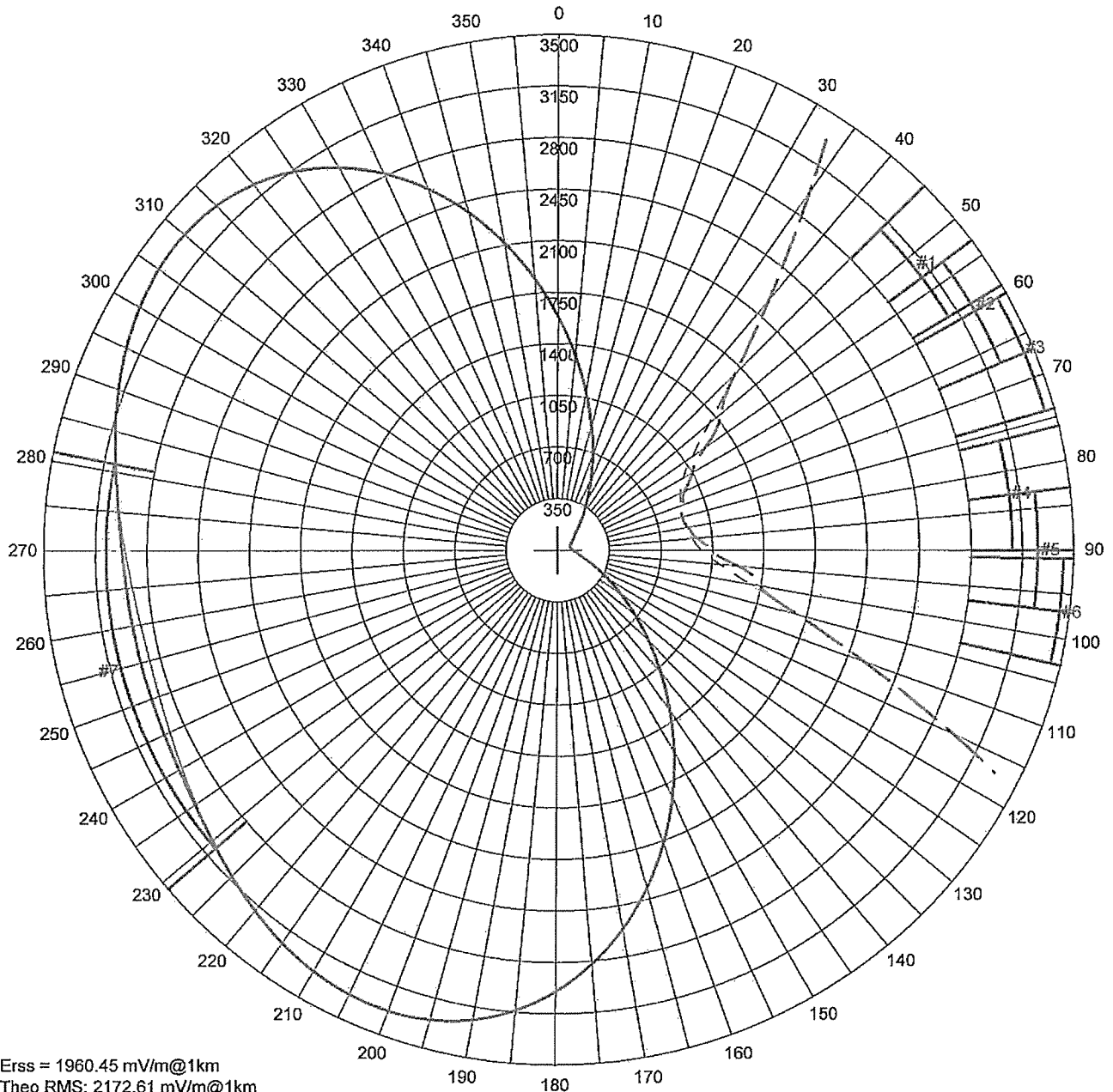
—— Pattern (mV/m @ 1km)
 —— Pattern X10

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Switch	TL Switch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	90.0	0	0	0.0	0.0	0.0	0.0

Call: KKOH
 Freq: 780 kHz
 RENO, NV, US
 Hours: D
 Lat: 39-40-41 N
 Lng: 119-48-06 W
 Power: 50.0 kW
 Theo RMS: 305.78 mV/m@1km

EXHIBIT #9A

KKOH - Directional Night



Erss = 1960.45 mV/m@1km
 Theo RMS: 2172.61 mV/m@1km
 Std RMS: 2281.312 mV/m@1km
 Aug RMS: 2287.158 mV/m@1km
 Q: 17.236 mV/m@1km

Modified Standard Horizontal Plane Pattern

— Aug Pattern (mV/m@1km)
 - - - Std Pattern (mV/m@1km)
 . . . Aug Pattern X10
 - . - - Std Pattern X10

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Switch	#	Azimuth (deg)	Radiation (mV/m@1km)	Span (deg)	Call: KKOH
1	1.000	-66.0	0.0	0.0	90.0	0	1	52.00	136.79	14.0	Freq: 780 kHz
2	2.100	0.0	110.0	75.0	90.0	0	2	60.00	104.61	14.0	RENO, NV, US
3	1.000	66.0	110.0	75.0	90.0	1	3	67.00	91.73	14.0	Hours: N
							4	83.00	91.73	14.0	Lat: 39-40-41 N
							5	90.00	104.61	14.0	Lng: 119-48-06 W
							6	97.00	131.97	12.0	Power: 50.0 kW - Custom Q
							7	255.00	2940.27	52.0	Value Used: 17.236
											Theo RMS: 2172.61 mV/m@1km
											@ 50.0 kW
											# of Augmentations: 7

EXHIBIT #9B

AFFIDAVIT AND QUALIFICATIONS OF CONSULTANT

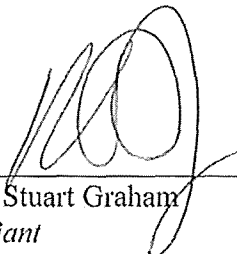
State of Georgia)
St. Simons Island) ss:
County of Glynn)

R. STUART GRAHAM, being duly sworn, deposes and says that he is an officer of Graham Brock, Inc. Graham Brock has been engaged by Radio License Holding CBC, LLC to prepare the attached Technical Exhibit.

His qualifications are a matter of record before the Federal Communications Commission. He has been active in Broadcast Engineering since 1979.

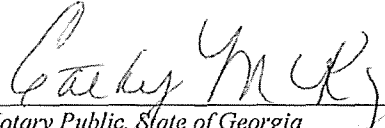
The attached report was either prepared by him or under his direction and all material and exhibits attached hereto are believed to be true and correct.

This the 27th day of January 2014.



R. Stuart Graham
Affiant

*Sworn to and subscribed before me
this the 27th day of January 2014*



Notary Public, State of Georgia
My Commission Expires: March 14, 2015