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7925 JONES BRANCH DRIVE
MCLEAN, VA 22102
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www.wileyrein.com

BMMC-20110201
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Sam
02/9/11

US BANK/FCC FEB 01 2011

January 31, 2011

Mark Lipp
202.719.7503
mlipp@wileyrein.com

BY HAND DELIVERY

Federal Communications Commission
c/o U.S. Bank – Government Lockbox #979089
SL-MO-C2-GL
1005 Convention Plaza
St. Louis, MO 63101

Re: **Application for AM Broadcast Station License/
Request for Program Test Authority**
Susquehanna Radio Corp.
Station KTCK(AM), Dallas, Texas
Facility Identifier Number 8773
File Number BP-20091116ADS

Dear Ms. Dortch:

Transmitted herewith on behalf of Susquehanna Radio Corp., the licensee of Station KTCK(AM), are an original and two copies of its application for an AM broadcast station license to cover the construction authorized in construction permit BP-20091116ADS. This Permit authorizes operation on 1310 kHz with 25 kW of power during the day and 5 kW at night using directional antenna systems. The Technical Statement and Exhibits, prepared by R. Stuart Graham, include all of the technical details and show that the operating parameters of the daytime and nighttime directional antenna patterns were determined in compliance with Section 73.151(c) of the Commission's Rules.

If there are any questions about this Application, please contact undersigned counsel for Susquehanna Radio Corp.

Sincerely,


Mark Lipp

ML/dmk

Enclosure

13239132.1



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Mark Lipp

ML/dmk

Enclosure

FOR
FCC
USE
ONLY

2011 FEB - 7 P 2:22
MASS MEDIA SERVICES DIVISION

FCC 302-AM
APPLICATION FOR AM
BROADCAST STATION LICENSE

(Please read instructions before filling out form.)

FOR COMMISSION USE ONLY

FILE #

BMM-L-20110201AFX

SECTION I - APPLICANT FEE INFORMATION

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

Susquehanna Radio Corp.

MAILING ADDRESS (Line 1) (Maximum 35 characters)
3280 Peachtree Road, NW, Suite 2300

MAILING ADDRESS (Line 2) (Maximum 35 characters)

CITY

Atlanta

STATE OR COUNTRY (if foreign address)
Georgia

ZIP CODE
30305

TELEPHONE NUMBER (include area code)
404.949.0700

CALL LETTERS
KTCK(AM)

OTHER FCC IDENTIFIER (if applicable)
8773

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

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

☒ Yes ☐ No

☐ Governmental Entity

☐ Noncommercial educational licensee

☐ Other (Please explain):

C. If Yes, provide the following information:

0003254562

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) |
| \$ 615.00 |

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)

| |
|-----------|
| \$ 705.00 |
|-----------|

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

\$ 1,320.00

FOR FCC USE ONLY

| | | |
|--|-------------------------|--------------------------|
| SECTION II - APPLICANT INFORMATION | | |
| 1. NAME OF APPLICANT Susquehanna Radio Corp. | | |
| 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 KTCK(AM) | Community of License Dallas, TX | Construction Permit File No. BP-20091116ADS | Modification of Construction Permit File No(s). | Expiration Date of Last Construction Permit 3/11/2013 |
|---------------------------------|---|---|--|--|

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. 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. |
|-------------|

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. |
|-------------|

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 VP, Secretary and General Counsel | Date 1/31/11 | 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 (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.

Exhibit A

The construction permit BP-20091116ADS which authorized an increase in the directional daytime power of Station KTCK(AM) from 9 to 25 kiloWatts contains Special Operating Condition #1 which requires a complete proof-of-performance of the daytime directional antenna system. This proof-of-performance must be evaluated before Program Test Authority is approved. As a result, KTCK(AM) is not eligible for automatic Program Test Authority. It should be noted that the licensed nighttime directional operation did not change.

SECTION III - LICENSE APPLICATION ENGINEERING DATA

Name of Applicant

Susquehanna Radio Corp.

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 | |
|-----------|--|--------------------|--------------------|--------------------|----------|
| KTCK | BP-20091116ADS | 1310 | U | Night 5.0 | Day 25.0 |

2. Station location

| | |
|-------|--------------|
| State | City or Town |
| Texas | Dallas |

3. Transmitter location

| | | | |
|-------|--------|--------------|---|
| State | County | City or Town | Street address (or other identification) |
| Texas | Dallas | Coddell | 900 E. Ledbetter Dr. |

4. Main studio location

| | | | |
|-------|--------|--------------|---|
| State | County | City or Town | Street address (or other identification) |
| Texas | Dallas | Dallas | 3500 Maple Ave., Suite 1310 |

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

| | | | |
|-------|--------|--------------|---|
| State | County | City or Town | Street address (or other identification) |
| Texas | Dallas | Dallas | 3500 Maple Ave, Suite 1310 |

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.
6

8. Operating constants:

| | |
|---|--|
| RF common point or antenna current (in amperes) without modulation for night system 6.82 | RF common point or antenna current (in amperes) without modulation for day system 23.0 |
| Measured antenna or common point resistance (in ohms) at operating frequency Night 49.5 Day 49.7 | Measured antenna or common point reactance (in ohms) at operating frequency Night +1.7 Day +1.0 |

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 |
| 1 (NE) | -- | 0.00 | -- | 1.000 | | |
| 2 (CE) | 114.00 | 73.1 | 0.770 | 0.968 | | |
| 3 (SE) | 0.00 | -61.2 | 1.000 | 0.879 | | |
| 4 (W) | -62.9 | -103.9 | 0.582 | 0.737 | | |
| | | | | | | |
| | | | | | | |

Manufacturer and type of antenna monitor: Potomac Instruments AM-1901

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 towers | 143.3 | 145.1 | 146.0 | Exhibit No. |

Excitation



Series



Shunt

ASRN 1046214 1046216

1046215 1046217

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

| | | | | | | | |
|----------------|------|------|------|----------------|------|------|------|
| North Latitude | 32 ° | 56 ' | 41 " | West Longitude | 96 ° | 56 ' | 25 " |
|----------------|------|------|------|----------------|------|------|------|

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.

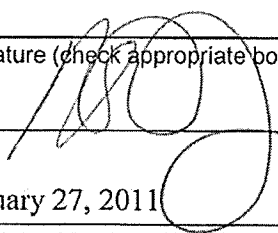
10. In what respect, if any, does the apparatus constructed differ from that described in the application for construction permit or in the permit?

None

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

N/A

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 |
| Graham Brock, Inc. | January 27, 2011 |
| P. O. Box 24466 | Telephone No. (Include Area Code) |
| St. Simons Island, GA 31522-7466 | 912-638-8028 |

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

APPLICATION FOR STATION LICENSE
SUSQUEHANNA RADIO CORP.
KTCK AM RADIO STATION
1310 kHz - 5.0/25.0 kW DA2
BP-20091116ADS
DALLAS, TEXAS
January 2011

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| <u>Exhibit</u> | <u>Description</u> |
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| | 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 |
| 5) | Direct Measurement of Power |
| 6) | Sampling System and Measurements |
| 7) | Reference Field Strength Measurements |
| 8) | Antenna Monitor Calibration |
| 9) | Post Construction Array Geometry Certification |
| 10) | Polar Graph - KTCK Day Pattern |
| 11) | Polar Graph - KTCK Night Pattern |
| 12) | Affidavit of William Guyner |
| | Affidavit of Richard Graham |

APPLICATION FOR STATION LICENSE
SUSQUEHANNA RADIO CORP.
KTCK AM RADIO STATION
1310 kHz - 5.0/25.0 kW DA2
BP-20091116ADS
DALLAS, TEXAS
January 2011

This Technical Statement was prepared on behalf of Susquehanna Radio Corp. ("SRC"), licensee of radio station KCTK, 1310 kHz, Dallas, Texas. SRC holds a valid construction permit (BP-20091116ADS) for increased directional daytime power, but with no changes to their licensed directional nighttime operation. BP-20091116ADS authorizes 25.0 kilowatts daytime and continued operation at 5.0 kilowatts nighttime. This application seeks program test authority and a station license with a computer analyzed directional operation under the provisions of Section 73.151(c). The calculations shown herein are for the daytime power of 25.0 kilowatts and the nighttime power of 5.0 kilowatts.

The towers are identified using the nighttime numbering sequence: Tower #1 (northeast), Tower #2 (center east), Tower #3 (southeast) and Tower #4 (west). The towers and ground system were constructed in accordance with the terms of the KCTK construction permit and specifications that were provided in the application for construction permit.

Information is provided herein to demonstrate the directional antenna parameters for the daytime and nighttime authorized 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.

There are three special operating conditions and/or restrictions listed on the KTCK construction permit that must be met.

Condition #1 states:

"The permittee must submit a proof of performance as set forth in either section 73.151(a) or 73.151(c) of the rules before program tests are authorized. A proof of performance based on field strength measurements, per Section 73.151(a), shall include a complete nondirectional proof of performance, in addition to a complete proof on the (day) directional antenna system. The nondirectional and directional field strength measurements must be made under similar environmental conditions. The proof(s) of performance submitted to the Commission must contain all of the data specified in Section 73.186 of the rules. Permittees who elect to submit a moment method proof of performance, as set forth in section 73.151(c), must use series-fed radiators. In addition, the sampling system must be constructed as described in Section 73.1515(c)(2)(I)."

This application supports the application for station license using the Moment proof rules of 73.151(c).

Condition #2 states:

"Permittee shall install a type accepted transmitter, or submit application (FCC Form 301) along with data subscribed in Section 73.1660(b) should non-type accepted transmitter be proposed."

The applicant has installed a Harris 3DX25, S/N JW30002037-001 which is type accepted in compliance with this condition.

Condition #3 states:

"Ground system consists of 120 equally spaced, buried, copper radials about the base of each tower, each 85.3 meters in length except where shortened at property boundary and between towers. Each tower has a 7.3 meter ground screen."

The applicant verifies the ground system is as described and accepts this condition.

Field measurements were conducted along the specified monitor point radials for both daytime and nighttime operation and are detailed in Exhibit #7.

During nighttime operation Tower #1 of the array is not used in the directional pattern. By reference to Exhibit #4, Tower #1 has a reactive drive impedance of $-j 373.63$ Ohms during nighttime operation. Referencing the feed line inductive reactance of $+j 32.6$ Ohms or 3.96 uHy inductance (Exhibit #1A) a 41.4 uHy coil shunt inductance to ground equivalent to $+j 341.0$ Ohms equals a conjugate reactance of $+j 373.6$ Ohms to the drive impedance reactance at the tower in nighttime mode operation. The shunt reactance for this tower effectively de-tunes the towers from radiating any significant power and is included in the Moment analysis of the array.

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
SUSQUEHANNA RADIO CORP.
KTCK AM RADIO STATION
1310 kHz - 5.0/25.0 kW DA2
BP-20091116ADS
DALLAS, TEXAS
January 2011

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 Array Solutions, POWER AIM 120, Vector Impedance Analyzer in a calibrated measurement system. The other towers were short 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.

APPLICATION FOR STATION LICENSE
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KTCK AM RADIO STATION
1310 kHz - 5.0/25.0 kW DA2
BP-20091116ADS
DALLAS, TEXAS
January 2011

EXHIBIT #1A

KTCK Dallas TX
1310

| TOWER | L(uH) - series | X(L) | Z(tower-modeled) | | Z(ATU-measured) | | Z(tower-measured) | |
|--------|----------------|---------|------------------|-----------|-----------------|-----------|-------------------|-----------|
| 1 (ne) | 3.96 | +j 32.6 | 36.4 | -j 134.27 | 36.4 | -j 101.71 | 36.4 | -j 134.27 |
| 2 (ce) | 5.00 | +j 41.2 | 33.0 | -j 146.59 | 33.0 | -j 105.41 | 33.0 | -j 146.59 |
| 3 (se) | 2.00 | +j 16.4 | 37.3 | -j 126.18 | 37.3 | -j 109.73 | 37.3 | -j 126.18 |
| 4 (w) | 4.69 | +j 38.6 | 37.6 | -j 144.76 | 37.6 | -j 106.13 | 37.6 | -j 144.76 |

From Moment Method Calculated Values

Tower Impedance Tolerance

Resistance & Reactance

+/- 2 Ohms and +/- 4%

| Tower | Resistance | (+/- ohms) | High Low | |
|--------|------------|------------|---------------|------|
| | | | | |
| 1 (ne) | 36.36 | 3.45 | 39.8 | 32.9 |
| 2 (ce) | 32.98 | 3.32 | 36.3 | 29.7 |
| 3 (se) | 37.30 | 3.49 | 40.8 | 33.8 |
| 4 (w) | 37.63 | 3.51 | 41.1 | 34.1 |

| Tower | Reactance | (+/- ohms) | High Low | |
|--------|-----------|------------|---------------|-------|
| | | | | |
| 1 (ne) | 134.27 | 7.37 | 141.6 | 126.9 |
| 2 (ce) | 146.59 | 7.86 | 154.5 | 138.7 |
| 3 (se) | 126.18 | 7.05 | 133.2 | 119.1 |
| 4 (w) | 144.76 | 7.79 | 152.6 | 137.0 |

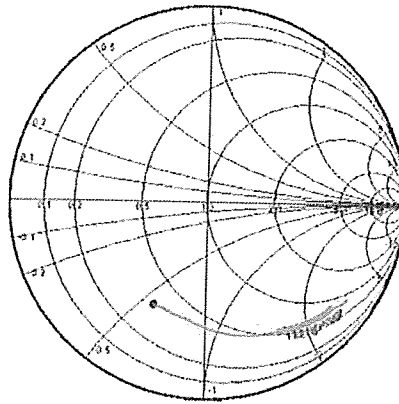
EXHIBIT #1B

| Marker | Freq | R _s | X _s |
|--------|----------|----------------|----------------|
| [1] | 1.200000 | 40.953 | -120.594 |
| [2] | 1.205000 | 40.237 | -124.120 |
| [3] | 1.290000 | 39.548 | -119.553 |
| [4] | 1.295000 | 30.024 | -114.972 |
| [5] | 1.300000 | 38.039 | -110.443 |
| [6] | 1.305000 | 37.206 | -106.015 |
| [7] | 1.310000 | 36.361 | -101.713 |
| [8] | 1.315000 | 35.557 | -97.547 |
| [9] | 1.320000 | 34.040 | -93.508 |
| [10] | 1.325000 | 34.278 | -89.571 |
| [11] | 1.330000 | 33.074 | -85.706 |
| [12] | 1.335000 | 33.639 | -81.870 |
| [13] | 1.340000 | 33.546 | -78.025 |

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KTCK AM RADIO STATION
1310 kHz - 5.0/25.0 kW DA2
BP-20091116ADS
DALLAS, TEXAS
January 2011

EXHIBIT #1C

Tower #2 Impedance Measurements

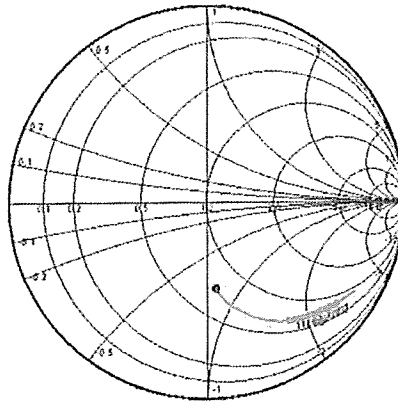


| Marker | Freq | Rg | Xs |
|--------|----------|--------|----------|
| [1] | 1.280000 | 39.731 | -127.603 |
| [2] | 1.285000 | 38.713 | -124.300 |
| [3] | 1.290000 | 37.511 | -121.042 |
| [4] | 1.295000 | 36.251 | -117.476 |
| [5] | 1.300000 | 35.039 | -113.666 |
| [6] | 1.305000 | 33.942 | -109.630 |
| [7] | 1.310000 | 32.904 | -105.413 |
| [8] | 1.315000 | 32.146 | -101.079 |
| [9] | 1.320000 | 31.309 | -96.701 |
| [10] | 1.325000 | 30.657 | -92.343 |
| [11] | 1.330000 | 29.900 | -88.063 |
| [12] | 1.335000 | 29.081 | -83.895 |
| [13] | 1.340000 | 28.185 | -79.850 |

APPLICATION FOR STATION LICENSE
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EXHIBIT #1D

Tower #3 Impedance Measurements

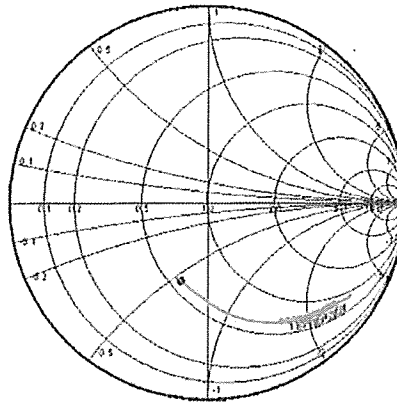


| Marker | Freq | Rs | Xs |
|--------|----------|--------|----------|
| [1] | 1.200000 | 40.914 | -132.906 |
| [2] | 1.205000 | 40.250 | -129.493 |
| [3] | 1.290000 | 39.668 | -125.873 |
| [4] | 1.295000 | 39.104 | -122.077 |
| [5] | 1.300000 | 38.534 | -118.100 |
| [6] | 1.305000 | 37.934 | -113.970 |
| [7] | 1.310000 | 37.296 | -109.732 |
| [8] | 1.315000 | 36.624 | -105.438 |
| [9] | 1.320000 | 35.933 | -101.140 |
| [10] | 1.325000 | 35.247 | -96.881 |
| [11] | 1.330000 | 34.584 | -92.692 |
| [12] | 1.335000 | 34.006 | -88.591 |
| [13] | 1.340000 | 33.509 | -84.578 |

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EXHIBIT #1E

Tower #4 Impedance Measurements



| Marker | Freq | Rs | Xs |
|--------|----------|--------|----------|
| [1] | 1.200000 | 42.055 | -130.661 |
| [2] | 1.205000 | 42.161 | -126.776 |
| [3] | 1.290000 | 41.324 | -122.841 |
| [4] | 1.295000 | 40.402 | -118.010 |
| [5] | 1.300000 | 39.452 | -114.690 |
| [6] | 1.305000 | 38.518 | -110.466 |
| [7] | 1.310000 | 37.627 | -106.131 |
| [8] | 1.315000 | 36.793 | -101.741 |
| [9] | 1.320000 | 36.013 | -97.314 |
| [10] | 1.325000 | 35.282 | -92.804 |
| [11] | 1.330000 | 34.509 | -88.478 |
| [12] | 1.335000 | 33.925 | -84.119 |
| [13] | 1.340000 | 33.289 | -79.816 |

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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 short 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. Twenty-four 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.

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EXHIBIT #2A

Daytime Directional Operating Parameters

DAYTIME - REFERENCE TOWER #1

| 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 (ne) | 17.08 | -73.06 | 1.000 | 0.0 | 1.000 | 0.0 |
| 2 (ce) | 16.54 | 0.00 | 0.968 | 73.1 | 0.965 | 72.3 |
| 3 (se) | 15.02 | -134.23 | 0.879 | -61.2 | 0.883 | -61.2 |
| 4 (w) | 12.58 | -176.94 | 0.737 | -103.9 | 0.735 | -103.0 |

Daytime Operating Parameter Tolerances

| Tower | Ratio (5%) | | Phase (3°) | |
|--------|------------|-------|------------|---------|
| | (+) | (-) | (+) | (-) |
| 1 (ne) | 1.000 | 1.000 | 0.00 | 0.00 |
| 2 (ce) | 1.017 | 0.920 | 76.06 | 70.06 |
| 3 (se) | 0.923 | 0.835 | -58.17 | -64.17 |
| 4 (w) | 0.773 | 0.700 | -100.88 | -106.88 |

Nighttime Directonal Operating Parameters

NIGHTTIME - REFERENCE TOWER #3

| 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 (ne) | 0.15 | -101.27 | 0.021 | 12.7 | -- | -- |
| 2 (ce) | 5.47 | 0.00 | 0.770 | 114.0 | 0.789 | 112.5 |
| 3 (se) | 7.1 | -113.98 | 1.000 | 0.0 | 1.000 | 0.0 |
| 4 (w) | 4.13 | -176.89 | 0.582 | -62.9 | 0.589 | -63.0 |

Nighttime Operating Parameter Tolerances

| Tower | Ratio (5%) | | Phase (3°) | |
|--------|------------|-------|------------|--------|
| | (+) | (-) | (+) | (-) |
| 1 (ne) | -- | -- | -- | -- |
| 2 (ce) | 0.809 | 0.732 | 116.98 | 110.98 |
| 3 (se) | 1.000 | 1.000 | 0.00 | 0.00 |
| 4 (w) | 0.611 | 0.553 | -59.91 | -65.91 |

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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 length of each tower was specified using degrees at the operating frequency of 1310 kHz (1.31 MHz), as taken from the theoretical directional antenna specifications. Each tower was modeled using twenty-four segments. As the towers are 225.4 degrees in electrical height, the segment length is 9.8 electrical degrees, in compliance with Section 73.151(c)(1)(iii).

The individual tower characteristics were adjusted to provide a match of their 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 short 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 36 inches.

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EXHIBIT #3A

KTCK Dallas TX
1310

| 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 (ne) | 225.4 | 0.96295 | 234.07 | 103.8% | 16.628 | 16.628 | 100.0% |
| 2 (ce) | 225.4 | 0.97758 | 230.57 | 102.3% | 16.628 | 16.628 | 100.0% |
| 3 (se) | 225.4 | 0.95465 | 236.11 | 104.8% | 16.628 | 16.628 | 100.0% |
| 4 (w) | 225.4 | 0.97435 | 231.33 | 102.6% | 16.628 | 16.628 | 100.0% |

| Tower | Tower Height Tolerance | | | Tower Radius Tolerance | | |
|--------|------------------------|---------|---------|------------------------|---------|---------|
| | >75% <125% | | | >80% <150% | | |
| | Height | Minimum | Maximum | Actual | Minimum | Maximum |
| 1 (ne) | 225.4 | 169.1 | 281.8 | 16.628 | 13.302 | 24.942 |
| 2 (ce) | 225.4 | 169.1 | 281.8 | 16.628 | 13.302 | 24.942 |
| 3 (se) | 225.4 | 169.1 | 281.8 | 16.628 | 13.302 | 24.942 |
| 4 (w) | 225.4 | 169.1 | 281.8 | 16.628 | 13.302 | 24.942 |

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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 |
| KTCK | 4 | 1.3100 |

| TOWER INFORMATION | | | | | | |
|-------------------|------------------|-------------|-------------|-------------------|-------------------|-----------------|
| | Tower Height (') | Spacing (') | Orientation | Face Width (in.) | Radius (in.) | Velocity Factor |
| Tower 1 | 225.4000 | 90.0000 | 0.0000 | 36.0000 / 36.0000 | 16.6277 / 16.6277 | 0.962950 |
| Tower 2 | 225.4000 | 0.0000 | 0.0000 | 36.0000 / 36.0000 | 16.6277 / 16.6277 | 0.977580 |
| Tower 3 | 225.4000 | 90.0000 | 180.0000 | 36.0000 / 36.0000 | 16.6277 / 16.6277 | 0.954650 |
| Tower 4 | 225.4000 | 90.0000 | 290.0000 | 36.0000 / 36.0000 | 16.6277 / 16.6277 | 0.974350 |

| MATRIX INFORMATION | | |
|--------------------|----------------------------------|-------------------------------------|
| | Impedance (other towers open) | Impedance (other towers shorted) |
| Tower 1 | 40.38 - j129.27 | 36.36 - j134.27 |
| Tower 2 | 38.12 - j134.41 | 32.98 - j146.59 |
| Tower 3 | 41.56 - j123.59 | 37.30 - j126.18 |
| Tower 4 | 43.02 - j138.66 | 37.63 - j144.76 |

| DETUNED TOWER CURRENTS | |
|------------------------|-------------------------------------|
| Tower 1 | |
| 0.000000 | > 0.000000 - 225.40° above ground |
| 1.084705 | > 70.503670 - 215.60° above ground |
| 1.850476 | > 70.539553 - 205.80° above ground |
| 2.480974 | > 70.597736 - 196.00° above ground |
| 2.969477 | > 70.695262 - 186.20° above ground |
| 3.310204 | > 70.849939 - 176.40° above ground |
| 3.497084 | > 71.082885 - 166.60° above ground |
| 3.526902 | > 71.422022 - 156.80° above ground |
| 3.400378 | > 71.908992 - 147.00° above ground |
| 3.122664 | > 72.614138 - 137.20° above ground |
| 2.703540 | > 73.673737 - 127.40° above ground |
| 2.157504 | > 75.402209 - 117.60° above ground |
| 1.504439 | > 78.746444 - 107.80° above ground |
| 0.776334 | > 88.487268 - 98.00° above ground |
| 0.263259 | > 177.693502 - 88.20° above ground |
| 0.965433 | > -124.258332 - 78.40° above ground |
| 1.814568 | > -116.391863 - 68.60° above ground |
| 2.658561 | > -112.984049 - 58.80° above ground |
| 3.463759 | > -110.694288 - 49.00° above ground |
| 4.204506 | > -108.745210 - 39.20° above ground |
| 4.859974 | > -106.831772 - 29.40° above ground |
| 5.416100 | > -104.763681 - 19.60° above ground |
| 5.865360 | > -102.406237 - 9.80° above ground |
| 6.337162 | > -98.356584 - -0.00° above ground |

| Tower 2 |
|--|
| 0.000000 > 0.000000 - 225.40° above ground |
| 1.058660 > 71.224016 - 215.60° above ground |
| 1.799386 > 71.284017 - 205.80° above ground |
| 2.405394 > 71.367314 - 196.00° above ground |
| 2.871423 > 71.489183 - 186.20° above ground |
| 3.193232 > 71.665107 - 176.40° above ground |
| 3.366141 > 71.913791 - 166.60° above ground |
| 3.388072 > 72.260549 - 156.80° above ground |
| 3.260544 > 72.743858 - 147.00° above ground |
| 2.989120 > 73.429500 - 137.20° above ground |
| 2.583562 > 74.445787 - 127.40° above ground |
| 2.057888 > 76.090106 - 117.60° above ground |
| 1.430905 > 79.262769 - 107.80° above ground |
| 0.731998 > 88.570952 - 98.00° above ground |
| 0.239262 > -178.914950 - 88.20° above ground |
| 0.924236 > -122.302343 - 78.40° above ground |
| 1.737729 > -114.961834 - 68.60° above ground |
| 2.545977 > -111.788765 - 58.80° above ground |
| 3.318357 > -109.665648 - 49.00° above ground |
| 4.031144 > -107.868431 - 39.20° above ground |
| 4.665001 > -106.114277 - 29.40° above ground |
| 5.206952 > -104.228611 - 19.60° above ground |
| 5.649754 > -102.091199 - 9.80° above ground |
| 6.125098 > -98.429836 - -0.00° above ground |

| DETUNED TOWER CURRENTS | |
|--|--|
| Tower 3 | |
| 0.000000 > 0.000000 - 225.40° above ground | |
| 0.846300 > -6.699737 - 215.60° above ground | |
| 1.429461 > -6.262700 - 205.80° above ground | |
| 1.896519 > -5.831926 - 196.00° above ground | |
| 2.244606 > -5.381083 - 186.20° above ground | |
| 2.471889 > -4.892869 - 176.40° above ground | |
| 2.576591 > -4.345929 - 166.60° above ground | |
| 2.559340 > -3.710168 - 156.80° above ground | |
| 2.423896 > -2.937721 - 147.00° above ground | |
| 2.177421 > -1.942752 - 137.20° above ground | |
| 1.830522 > -0.547844 - 127.40° above ground | |
| 1.397310 > 1.693448 - 117.60° above ground | |
| 0.896342 > 6.337695 - 107.80° above ground | |
| 0.364220 > 24.621998 - 98.00° above ground | |
| 0.327789 > 143.272645 - 88.20° above ground | |
| 0.899145 > 165.293344 - 78.40° above ground | |
| 1.488844 > 170.518756 - 68.60° above ground | |
| 2.052778 > 173.170541 - 58.80° above ground | |
| 2.568520 > 175.033045 - 49.00° above ground | |
| 3.017527 > 176.617571 - 39.20° above ground | |
| 3.384270 > 178.150912 - 29.40° above ground | |
| 3.656614 > 179.791210 - 19.60° above ground | |
| 3.826511 > -178.325091 - 9.80° above ground | |
| 3.896443 > -174.946520 - -0.00° above ground | |

| Tower 4 | |
|--|--|
| 0.000000 > 0.000000 - 225.40° above ground | |
| 1.009487 > 59.577456 - 215.60° above ground | |
| 1.713473 > 59.671698 - 205.80° above ground | |
| 2.286950 > 59.784945 - 196.00° above ground | |
| 2.725185 > 59.932087 - 186.20° above ground | |
| 3.024463 > 60.127614 - 176.40° above ground | |
| 3.180731 > 60.389409 - 166.60° above ground | |
| 3.192493 > 60.742018 - 156.80° above ground | |
| 3.081755 > 61.223099 - 147.00° above ground | |
| 2.794444 > 61.897557 - 137.20° above ground | |
| 2.400534 > 62.893374 - 127.40° above ground | |
| 1.894085 > 64.512428 - 117.60° above ground | |
| 1.293714 > 67.698164 - 107.80° above ground | |
| 0.628576 > 77.673396 - 98.00° above ground | |
| 0.241966 > -174.963030 - 88.20° above ground | |
| 0.927381 > -131.916339 - 78.40° above ground | |
| 1.689878 > -125.679274 - 68.60° above ground | |
| 2.439458 > -122.860058 - 58.80° above ground | |
| 3.148063 > -120.938065 - 49.00° above ground | |
| 3.793014 > -119.297197 - 39.20° above ground | |
| 4.355532 > -117.688515 - 29.40° above ground | |
| 4.822294 > -115.952088 - 19.60° above ground | |
| 5.185249 > -113.969924 - 9.80° above ground | |
| 5.534503 > -110.523539 - -0.00° above ground | |

| ZMatrix | | | |
|-----------------|-----------------|-----------------|-----------------|
| 40.38 - j129.27 | 25.74 + j0.29 | 5.43 - j10.00 | 23.11 - j3.26 |
| 25.74 + j0.29 | 38.12 - j134.41 | 28.01 - j1.56 | 26.12 + j3.53 |
| 5.43 - j10.00 | 28.01 - j1.56 | 41.56 - j123.59 | 14.29 - j9.50 |
| 23.11 - j3.26 | 26.12 + j3.53 | 14.29 - j9.50 | 43.02 - j138.66 |

| YMatrix | | | |
|-----------------------|----------------------|-----------------------|----------------------|
| 0.001879 + j0.006939 | 0.000866 - j0.000660 | -0.000396 - j0.000721 | 0.000718 - j0.000789 |
| 0.000866 - j0.000660 | 0.001461 + j0.006493 | 0.000968 - j0.000776 | 0.000816 - j0.000539 |
| -0.000396 - j0.000721 | 0.000968 - j0.000776 | 0.002155 + j0.007288 | 0.000101 - j0.000872 |
| 0.000718 - j0.000789 | 0.000816 - j0.000539 | 0.000101 - j0.000872 | 0.001682 + j0.006471 |

| HMatrix - [I] = [H] X [F] | | | |
|---------------------------|-----------------------|-----------------------|-----------------------|
| -0.018081 + j0.007493 | 0.002902 + j0.004508 | 0.002783 - j0.000863 | 0.003271 + j0.003447 |
| 0.002549 + j0.004251 | -0.017615 + j0.007997 | 0.002623 + j0.004130 | 0.002539 + j0.004485 |
| 0.003008 - j0.000946 | 0.003176 + j0.004558 | -0.018433 + j0.007278 | 0.003954 + j0.000727 |
| 0.003057 + j0.003274 | 0.002732 + j0.004529 | 0.003452 + j0.000735 | -0.017219 + j0.007714 |

| HMatrix-inverse - [F] = [H] ⁻¹ X [I] | | | |
|---|-------------------------|-------------------------|-------------------------|
| -41.528423 - j18.570143 | 7.209836 - j11.692677 | -1.018614 - j3.082646 | 4.501654 - j10.421446 |
| 7.033676 - j10.614818 | -36.899638 - j16.674223 | 5.923280 - j11.939023 | 9.181103 - j11.057273 |
| -1.226529 - j3.405282 | 6.236271 - j13.931210 | -42.714397 - j19.386304 | -0.499967 - j7.800466 |
| 4.359620 - j9.808113 | 9.043054 - j11.530092 | -0.175258 - j6.863687 | -41.507716 - j20.512601 |

| TOWER CURRENTS |
|---|
| Mode 1 |
| Tower 1 |
| 0.000000 > 0.000000 - 225.40° above ground |
| 3.731782 > 112.359630 - 215.60° above ground |
| 6.513849 > 112.768844 - 205.80° above ground |
| 8.949817 > 113.194030 - 196.00° above ground |
| 11.010167 > 113.656662 - 186.20° above ground |
| 12.666488 > 114.170944 - 176.40° above ground |
| 13.886857 > 114.754080 - 166.60° above ground |
| 14.646140 > 115.428707 - 156.80° above ground |
| 14.929697 > 116.226562 - 147.00° above ground |
| 14.735351 > 117.194582 - 137.20° above ground |
| 14.074449 > 118.406101 - 127.40° above ground |
| 12.972462 > 119.983153 - 117.60° above ground |
| 11.469656 > 122.145319 - 107.80° above ground |
| 9.623029 > 125.330283 - 98.00° above ground |
| 7.513617 > 130.541937 - 88.20° above ground |
| 5.277753 > 140.582138 - 78.40° above ground |
| 3.275697 > 165.087350 - 68.60° above ground |
| 2.784356 > -141.217623 - 58.80° above ground |
| 4.480174 > -104.419341 - 49.00° above ground |
| 6.875122 > -90.191905 - 39.20° above ground |
| 9.357574 > -83.320320 - 29.40° above ground |
| 11.768747 > -79.174188 - 19.60° above ground |
| 14.049517 > -76.251487 - 9.80° above ground |
| 17.080741 > -73.064886 - -0.00° above ground |

| Tower 2 |
|--|
| 0.000000 > 0.000000 - 225.40° above ground |
| 4.123323 > -172.710522 - 215.60° above ground |
| 7.270913 > -172.493635 - 205.80° above ground |
| 10.098091 > -172.286784 - 196.00° above ground |
| 12.565503 > -172.082736 - 186.20° above ground |
| 14.633958 > -171.878733 - 176.40° above ground |
| 16.258862 > -171.671072 - 166.60° above ground |
| 17.401791 > -171.454511 - 156.80° above ground |
| 18.034802 > -171.221479 - 147.00° above ground |
| 18.142843 > -170.960842 - 137.20° above ground |
| 17.725019 > -170.655697 - 127.40° above ground |
| 16.795077 > -170.279206 - 117.60° above ground |
| 15.381294 > -169.786152 - 107.80° above ground |
| 13.525873 > -169.094204 - 98.00° above ground |
| 11.284131 > -168.036680 - 88.20° above ground |
| 8.724194 > -166.219787 - 78.40° above ground |
| 5.930868 > -162.449355 - 68.60° above ground |
| 3.046060 > -150.853829 - 58.80° above ground |
| 1.254283 > -69.834308 - 49.00° above ground |
| 3.657209 > -13.984467 - 39.20° above ground |
| 6.652904 > -5.308425 - 29.40° above ground |
| 9.630868 > -2.277838 - 19.60° above ground |
| 12.524982 > -0.884675 - 9.80° above ground |
| 16.539366 > 0.000000 - -0.00° above ground |

| TOWER CURRENTS |
|---|
| Mode 1 |
| Tower 3 |
| 0.000000 > 0.000000 - 225.40° above ground |
| 3.274269 > 46.325883 - 215.60° above ground |
| 5.724649 > 46.746287 - 205.80° above ground |
| 7.872726 > 47.179822 - 196.00° above ground |
| 9.688831 > 47.648479 - 186.20° above ground |
| 11.144171 > 48.166460 - 176.40° above ground |
| 12.207370 > 48.750674 - 166.60° above ground |
| 12.853725 > 49.423137 - 156.80° above ground |
| 13.068647 > 50.214601 - 147.00° above ground |
| 12.849524 > 51.170673 - 137.20° above ground |
| 12.206690 > 52.363268 - 127.40° above ground |
| 11.163922 > 53.914043 - 117.60° above ground |
| 9.758907 > 56.047614 - 107.80° above ground |
| 8.044776 > 59.229916 - 98.00° above ground |
| 6.096782 > 64.601015 - 88.20° above ground |
| 4.045313 > 75.726975 - 78.40° above ground |
| 2.300009 > 107.327007 - 68.60° above ground |
| 2.408212 > 170.909566 - 58.80° above ground |
| 4.290162 > -159.865817 - 49.00° above ground |
| 6.501744 > -149.194389 - 39.20° above ground |
| 8.685327 > -143.731570 - 29.40° above ground |
| 10.740450 > -140.184808 - 19.60° above ground |
| 12.623545 > -137.474719 - 9.80° above ground |
| 15.016669 > -134.225502 - -0.00° above ground |

| Tower 4 |
|---|
| 0.000000 > 0.000000 - 225.40° above ground |
| 2.806235 > -0.495317 - 215.60° above ground |
| 4.879582 > -0.259098 - 205.80° above ground |
| 6.679640 > -0.016449 - 196.00° above ground |
| 8.183786 > 0.245374 - 186.20° above ground |
| 9.370527 > 0.534304 - 176.40° above ground |
| 10.215900 > 0.859523 - 166.60° above ground |
| 10.701507 > 1.232737 - 156.80° above ground |
| 10.817398 > 1.670106 - 147.00° above ground |
| 10.563563 > 2.195523 - 137.20° above ground |
| 9.950581 > 2.846911 - 127.40° above ground |
| 8.999723 > 3.689568 - 117.60° above ground |
| 7.742698 > 4.848063 - 107.80° above ground |
| 6.221370 > 6.596113 - 98.00° above ground |
| 4.488649 > 9.679780 - 88.20° above ground |
| 2.618822 > 17.088266 - 78.40° above ground |
| 0.891262 > 57.816100 - 68.60° above ground |
| 1.747603 > 156.213695 - 58.80° above ground |
| 3.708691 > 170.415633 - 49.00° above ground |
| 5.661393 > 175.044033 - 39.20° above ground |
| 7.504644 > 177.582136 - 29.40° above ground |
| 9.195936 > 179.406933 - 19.60° above ground |
| 10.710287 > -179.039954 - 9.80° above ground |
| 12.584846 > -176.943707 - -0.00° above ground |

| TOWER CURRENTS | |
|----------------|--------------------------------------|
| Mode 2 | |
| Tower 1 | |
| 0.000000 | > 0.000000 - 225.40° above ground |
| 0.024409 | > -134.160495 - 215.60° above ground |
| 0.036560 | > -131.567692 - 205.80° above ground |
| 0.042399 | > -128.566375 - 196.00° above ground |
| 0.042783 | > -124.864382 - 186.20° above ground |
| 0.038666 | > -119.982236 - 176.40° above ground |
| 0.031068 | > -112.738563 - 166.60° above ground |
| 0.021316 | > -99.382225 - 156.80° above ground |
| 0.012400 | > -64.348162 - 147.00° above ground |
| 0.013698 | > 1.026423 - 137.20° above ground |
| 0.024260 | > 30.980471 - 127.40° above ground |
| 0.035960 | > 43.435032 - 117.60° above ground |
| 0.046438 | > 50.983815 - 107.80° above ground |
| 0.054604 | > 56.749208 - 98.00° above ground |
| 0.059669 | > 61.807037 - 88.20° above ground |
| 0.060989 | > 66.690006 - 78.40° above ground |
| 0.058042 | > 71.831335 - 68.60° above ground |
| 0.050436 | > 77.896140 - 58.80° above ground |
| 0.037988 | > 86.694186 - 49.00° above ground |
| 0.021448 | > 107.191758 - 39.20° above ground |
| 0.014674 | > -166.419931 - 29.40° above ground |
| 0.040387 | > -121.130563 - 19.60° above ground |
| 0.077832 | > -109.204537 - 9.80° above ground |
| 0.146199 | > -101.276854 - -0.00° above ground |

| Tower 2 | |
|----------|--------------------------------------|
| 0.000000 | > 0.000000 - 225.40° above ground |
| 1.359967 | > -175.007907 - 215.60° above ground |
| 2.393924 | > -174.864319 - 205.80° above ground |
| 3.318909 | > -174.729483 - 196.00° above ground |
| 4.122201 | > -174.598842 - 186.20° above ground |
| 4.791186 | > -174.470864 - 176.40° above ground |
| 5.311539 | > -174.343413 - 166.60° above ground |
| 5.671046 | > -174.213377 - 156.80° above ground |
| 5.861025 | > -174.076170 - 147.00° above ground |
| 5.877108 | > -173.924946 - 137.20° above ground |
| 5.719644 | > -173.749164 - 127.40° above ground |
| 5.393832 | > -173.531826 - 117.60° above ground |
| 4.909647 | > -173.243779 - 107.80° above ground |
| 4.281583 | > -172.830731 - 98.00° above ground |
| 3.528268 | > -172.179382 - 88.20° above ground |
| 2.672062 | > -171.009424 - 78.40° above ground |
| 1.739241 | > -168.395630 - 68.60° above ground |
| 0.767708 | > -158.584697 - 58.80° above ground |
| 0.368713 | > -35.175453 - 49.00° above ground |
| 1.327752 | > -6.467902 - 39.20° above ground |
| 2.319100 | > -2.346552 - 29.40° above ground |
| 3.282712 | > -0.894498 - 19.60° above ground |
| 4.206855 | > -0.279455 - 9.80° above ground |
| 5.470438 | > 0.000000 - -0.00° above ground |

| TOWER CURRENTS | |
|----------------|-------------------------------------|
| Mode 2 | |
| Tower 3 | |
| 0.000000 | > 0.000000 - 225.40° above ground |
| 1.590479 | > 68.308935 - 215.60° above ground |
| 2.774242 | > 68.685172 - 205.80° above ground |
| 3.806912 | > 69.074054 - 196.00° above ground |
| 4.675334 | > 69.495790 - 186.20° above ground |
| 5.366867 | > 69.963773 - 176.40° above ground |
| 5.867629 | > 70.494084 - 166.60° above ground |
| 6.166942 | > 71.107788 - 156.80° above ground |
| 6.258925 | > 71.834453 - 147.00° above ground |
| 6.143344 | > 72.718112 - 137.20° above ground |
| 5.826028 | > 73.828449 - 127.40° above ground |
| 5.319060 | > 75.283740 - 117.60° above ground |
| 4.640945 | > 77.303092 - 107.80° above ground |
| 3.817263 | > 80.342865 - 98.00° above ground |
| 2.883660 | > 85.526513 - 88.20° above ground |
| 1.901015 | > 96.411605 - 78.40° above ground |
| 1.062182 | > 128.181409 - 68.60° above ground |
| 1.122992 | > -166.755022 - 58.80° above ground |
| 2.028226 | > -138.003102 - 49.00° above ground |
| 3.080052 | > -127.749712 - 39.20° above ground |
| 4.114685 | > -122.586452 - 29.40° above ground |
| 5.086394 | > -119.300761 - 19.60° above ground |
| 5.975058 | > -116.847892 - 9.80° above ground |
| 7.100797 | > -113.983961 - -0.00° above ground |

| Tower 4 | |
|----------|-------------------------------------|
| 0.000000 | > 0.000000 - 225.40° above ground |
| 0.927502 | > 3.155362 - 215.60° above ground |
| 1.620083 | > 3.611360 - 205.80° above ground |
| 2.228064 | > 4.071846 - 196.00° above ground |
| 2.743507 | > 4.558140 - 186.20° above ground |
| 3.158751 | > 5.082237 - 176.40° above ground |
| 3.465215 | > 5.658298 - 166.60° above ground |
| 3.656036 | > 6.304672 - 156.80° above ground |
| 3.727034 | > 7.046830 - 147.00° above ground |
| 3.677235 | > 7.922164 - 137.20° above ground |
| 3.509130 | > 8.988867 - 127.40° above ground |
| 3.228796 | > 10.343789 - 117.60° above ground |
| 2.845951 | > 12.162169 - 107.80° above ground |
| 2.374159 | > 14.798159 - 98.00° above ground |
| 1.831860 | > 19.088470 - 88.20° above ground |
| 1.247593 | > 27.538435 - 78.40° above ground |
| 0.695516 | > 50.826036 - 68.60° above ground |
| 0.546599 | > 117.222136 - 58.80° above ground |
| 1.030659 | > 156.097915 - 49.00° above ground |
| 1.652788 | > 168.336212 - 39.20° above ground |
| 2.275160 | > 174.047566 - 29.40° above ground |
| 2.867035 | > 177.556578 - 19.60° above ground |
| 3.416204 | > -179.868710 - 9.80° above ground |
| 4.130626 | > -176.884900 - -0.00° above ground |

| FIELD INFORMATION - DAY | | |
|-------------------------|-------------|-------------|
| | Field Ratio | Field Phase |
| Tower 1 | 0.6770 | -63.0000 |
| Tower 2 | 1.0000 | 0.0000 |
| Tower 3 | 0.5530 | -131.0000 |
| Tower 4 | 0.4120 | 173.0000 |

| FIELD INFORMATION - NIGHT | | |
|---------------------------|-------------|-------------|
| | Field Ratio | Field Phase |
| Tower 2 | 1.0000 | 0.0000 |
| Tower 3 | 0.8500 | -105.0000 |
| Tower 4 | 0.5200 | 188.0000 |

| TOWER DRIVE INFORMATION - DAY | | | | | |
|-------------------------------|--------------|-------------|---------------------------|------------------------|------------|
| | Field Ratios | Field Phase | Drive Imped. (Ω) | Current | Power (W) |
| Tower 1 | 0.6770 | -63.0000 | 35.57 - j129.72 | 17.08 \angle -73.06 | 10376.8338 |
| Tower 2 | 1.0000 | 0.0000 | 7.69 - j180.73 | 16.54 \angle 0.00 | 2103.7284 |
| Tower 3 | 0.5530 | -131.0000 | 37.61 - j114.33 | 15.02 \angle -134.23 | 8481.8062 |
| Tower 4 | 0.4120 | 173.0000 | 25.49 - j106.71 | 12.58 \angle -176.94 | 4037.6317 |

| TOWER DRIVE INFORMATION - NIGHT | | | | | |
|---------------------------------|--------------|-------------|---------------------------|-----------------------|-----------|
| | Field Ratios | Field Phase | Drive Imped. (Ω) | Current | Power (W) |
| Tower 1 | 0.0000 | 0.0000 | 65.21 - j373.63 | 0.15 \angle -101.27 | 1.3937 |
| Tower 2 | 1.0000 | 0.0000 | 1.82 - j171.21 | 5.47 \angle 0.00 | 54.3168 |
| Tower 3 | 0.8500 | -105.0000 | 32.91 - j113.48 | 7.10 \angle -113.98 | 1659.3342 |
| Tower 4 | 0.5200 | 188.0000 | 34.28 - j126.25 | 4.13 \angle -176.89 | 584.9553 |

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EXHIBIT #5

Direct Measurement of Power

KCTK will operate with a directional daytime power of 25.0 kilowatts and a common point impedance of 49.7 +/- J 1.0 ohms and a nighttime power of 5.0 kilowatts and a common point impedance of 49.5 +/- J 1.7 ohms.

Daytime

Due to the daytime directional antenna operation, the common point input powers are adjusted with reference to the transmitted power, in accordance with Section 73.51(b)(2)¹.

Adjusting the input power by 1.053 results in the following:

$$25,000 \text{ Watts} \times 1.053 = 26,325 \text{ Watts}$$

$$\text{Common Point Resistance} = 49.7 \text{ Ohms}$$

$$\text{Manipulating } I^2R = P$$

$$\text{Where } I = \text{Common Point Current} \quad R = \text{Common Point Resistance} \quad P = \text{Power in Watts}$$

$$I = (26,325/49.7)^{.5} = 23.0 \text{ Amps at Common Point}$$

The daytime directional power will be monitored at the common point.

1) Section 73.51 Determining operating power. (b) The authorized antenna input power for each station shall be equal to the nominal power for such station, with the following exceptions: (2) For stations with nominal powers in excess of 5 kilowatts, the authorized antenna input power to directional antennas shall exceed the nominal power by 5.3 percent.

Nighttime

The nighttime directional antenna is licensed with an Antenna Input Power of 2.3 kilowatts of power to achieve a nominal power of 5.0 kilowatts in accordance with the outstanding station license (BZ-20031016ACJ).

2,300 Watts

Common Point Resistance = 49.5 Ohms

Manipulating $I^2R = P$

Where I = Common Point Current R = Common Point Resistance P = Power in Watts

$I = (2,300/49.5)^{.5} = 6.82$ Amps at Common Point

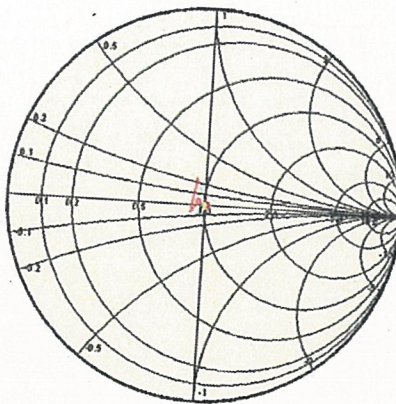
The nighttime directional power will be monitored at the common point.

Common point impedance was measured utilizing an Array Solutions, POWER AIM 120, Vector Impedance Analyzer in a calibrated measurement system.

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EXHIBIT #5A

Daytime Common Point Measurements / Impedance

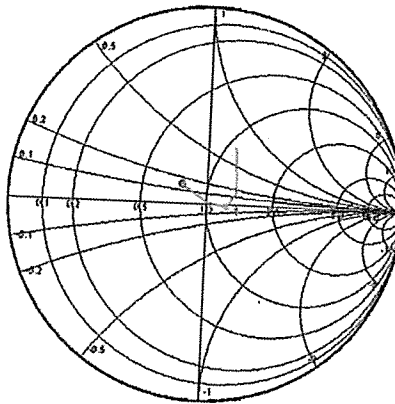


| Marker | Freq | Rs | Xs |
|--------|----------|--------|--------|
| [1] | 1.295000 | 45.438 | -0.631 |
| [2] | 1.300000 | 47.309 | 1.515 |
| [3] | 1.305000 | 48.568 | 0.215 |
| [4] | 1.310000 | 49.701 | -0.960 |
| [5] | 1.315000 | 50.151 | -0.733 |
| [6] | 1.320000 | 50.620 | -0.420 |
| [7] | 1.325000 | 51.190 | 0.330 |

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EXHIBIT #5B

Nighttime Common Point Measurements / Impedance



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EXHIBIT #6

Sampling System And Measurements

The sample system for KCTK consists of electrical equal lengths of Andrew LDF4-50A phase stabilized coaxial transmission lines terminated into Delta TCT-3 toroid sample transformers. A tabulation of the sample line lengths and characteristic impedances are included in Exhibit #6A.

Impedance measurements of the antenna monitor sampling lines with the toroid sample transformers attached were made using an Array Solutions, POWER AIM 120, Vector Impedance Analyzer in 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 #6B, #6C, #6D and #6E.

Impedance measurements of the antenna monitor sampling lines were made using an Array Solutions, POWER AIM 120, Vector Impedance Analyzer in 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 #6F, #6G, #6H and #6I 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 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 336.9 and 337.1 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 between 50.7 and 50.9 Ohms, within the 2.0 ohm variance, as specified by Section 73.151(c)(2)(i).

Toroid current transformer calibration was checked by placing each transformer in line at the transmitter output connected to a dummy load. The transformers were connected to the station's antenna monitor with short equal length transmission line jumpers. The relative ratio and phase of all transformers was found to compare identically to each other, within the manufacturer's specifications.

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EXHIBIT #6A

KTCK Dallas TX
1310 kHz

Sample Line - Andrew Phase Stabilized LDF4-50J

Sample Line and Sample Transformer Combined Impedance at 1310 kHz

| Tower Sample System | Sample Transformer Make / Type / Serial # | Resistance (ohms) | Reactance (ohms) | Supporting Exhibit |
|---------------------------|--|----------------------|---------------------|-----------------------|
| 1 (ne) | Delta / TCT-3 / 17845 | 51.01 | -1.30 | 6B |
| 2 (ce) | Delta / TCT-3 / 17847 | 50.96 | -1.19 | 6C |
| 3 (se) | Delta / TCT-3 / 17830 | 50.89 | -1.21 | 6D |
| 4 (w) | Delta / TCT-3 / 17825 | 50.93 | -1.29 | 6E |

Sample Line Length and Impedance Calculations

| Tower Sample Line | Open Circuit Resonance (kHz) | Calculated Electrical Length at 1410 kHz (degrees) | Measured Characteristic Impedance | Supporting Exhibit |
|-------------------------|---------------------------------|--|---|-----------------------|
| 1 (ne) | 1.049608 | 337.0 | 50.9 | 6F |
| 2 (ce) | 1.049288 | 337.1 | 50.8 | 6G |
| 3 (se) | 1.049927 | 336.9 | 50.7 | 6H |
| 4 (w) | 1.049928 | 336.9 | 50.8 | 6I |

Sample Line Lengths : +/-

0.10 Degrees : Limit +/- 0.5°

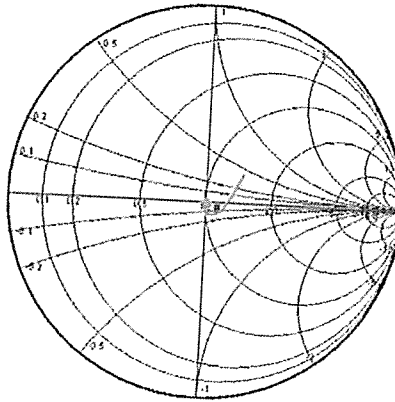
Characteristic Impedance : +/-

0.10 Ohms : Limit +/- 1.0 Ohms

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EXHIBIT #6B

Tower #1 Sample and Toroid

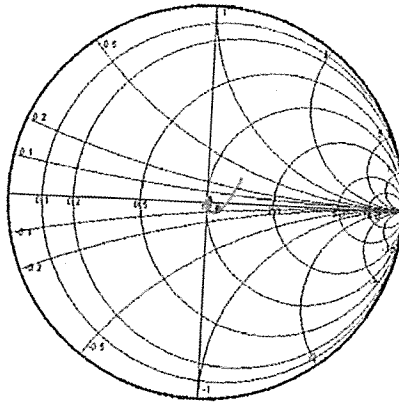


| Marker | Freq | Rs | Xs |
|--------|----------|--------|--------|
| [1] | 1.280000 | 51.053 | -1.303 |
| [2] | 1.290000 | 51.041 | -1.307 |
| [3] | 1.300000 | 51.027 | -1.306 |
| [4] | 1.310000 | 51.012 | -1.300 |
| [5] | 1.320000 | 50.996 | -1.289 |
| [6] | 1.330000 | 50.979 | -1.274 |
| [7] | 1.340000 | 50.961 | -1.255 |

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EXHIBIT #6C

Tower #2 Sample and Toroid

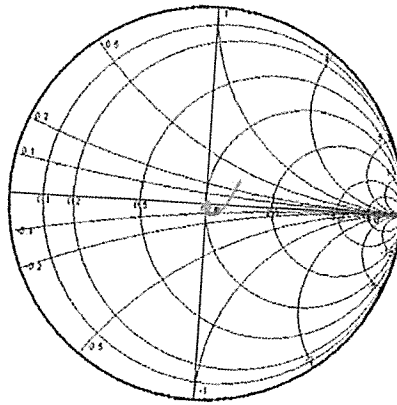


| Marker | Freq | R _s | X _s |
|--------|----------|----------------|----------------|
| [1] | 1.280000 | 50.994 | -1.187 |
| [2] | 1.290000 | 50.904 | -1.191 |
| [3] | 1.300000 | 50.973 | -1.190 |
| [4] | 1.310000 | 50.962 | -1.185 |
| [5] | 1.320000 | 50.949 | -1.176 |
| [6] | 1.330000 | 50.935 | -1.162 |
| [7] | 1.340000 | 50.921 | -1.145 |

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EXHIBIT #6D

Tower #3 Sample and Toroid



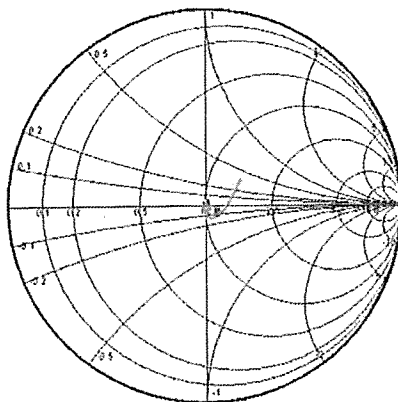
| Marker | Freq |
|--------|----------|
| [1] | 1.280000 |
| [2] | 1.290000 |
| [3] | 1.300000 |
| [4] | 1.310000 |
| [5] | 1.320000 |
| [6] | 1.330000 |
| [7] | 1.340000 |

| R _s | X _s |
|----------------|----------------|
| 50.924 | -1.211 |
| 50.914 | -1.214 |
| 50.903 | -1.213 |
| 50.891 | -1.207 |
| 50.878 | -1.198 |
| 50.864 | -1.184 |
| 50.849 | -1.167 |

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EXHIBIT #6E

Tower #4 Sample and Toroid

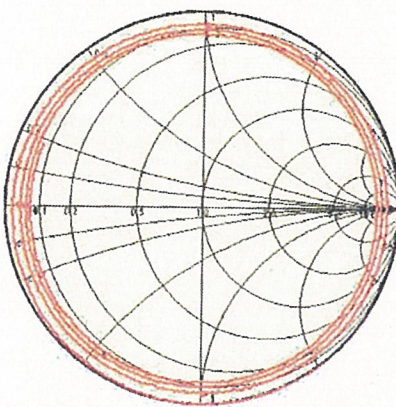


| Marker | Freq | Rs | Xs |
|--------|----------|--------|--------|
| [1] | 1.283000 | 50.965 | -1.297 |
| [2] | 1.293000 | 50.954 | -1.300 |
| [3] | 1.303000 | 50.941 | -1.300 |
| [4] | 1.313000 | 50.928 | -1.294 |
| [5] | 1.323000 | 50.914 | -1.285 |
| [6] | 1.333000 | 50.899 | -1.271 |
| [7] | 1.343000 | 50.883 | -1.253 |

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EXHIBIT #6F

KCTK Sample Line - Tower #1



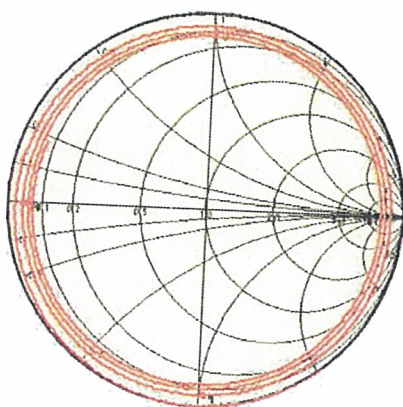
| Marker | Freq | Rs | Xs |
|--------|----------|-------|---------|
| [1] | 0.074673 | 3.217 | -50.931 |
| [2] | 1.049600 | 1.968 | 0.000 |
| [3] | 1.224543 | 5.073 | 50.402 |
| [4] | 1.752982 | 2.693 | -0.000 |

| | | | |
|---------------------------------|---------------------|------------------------------------|--------------------------------------|
| Station Freq (MHz) | Resonant Freq (MHz) | Resonant Freq (MHz) | |
| 1.31 | 1.049608 | 1.752982 | |
| Closest To Station Freq | | Line Velocity Factor From Mfg. (%) | |
| 1.049608 | | 88 | |
| Length of Line ° @ Station Freq | | Calculated Physical Length | |
| 337.0 | | 618.7 | feet |
| | | Impedance at Offset Freq | |
| -45° Offset (MHz) | Resistance | Reactance | Line Characteristic Impedance (Ohms) |
| 0.874673 | 3.217 | -50.931 | |
| +45° Offset (MHz) | | | 50.9 |
| 1.224543 | 5.391 | 50.579 | |

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EXHIBIT #6G

KCTK Sample Line - Tower #2



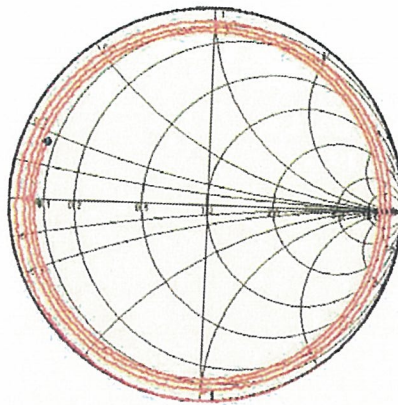
| Marker | Freq | Rs | Xs |
|--------|----------|-------|---------|
| [1] | 0.874407 | 3.203 | -50.930 |
| [2] | 1.049288 | 2.042 | 0.000 |
| [3] | 1.224169 | 5.265 | 50.291 |
| [4] | 1.752901 | 2.720 | 0.000 |

| | | | |
|---------------------------------|---------------------|------------------------------------|--------------------------------------|
| Station Freq (MHz) | Resonant Freq (MHz) | Resonant Freq (MHz) | |
| 1.31 | 1.049288 | 1.752901 | |
| Closest To Station Freq | | Line Velocity Factor From Mfg. (%) | |
| 1.049288 | | 88 | |
| Length of Line ° @ Station Freq | | Calculated Physical Length | |
| 337.1 | | 618.9 | feet |
| -45° Offset (MHz) | Resistance | Impedance at Offset Freq | Line Characteristic Impedance (Ohms) |
| 0.874407 | 3.203 | Reactance | |
| +45° Offset (MHz) | | -50.930 | |
| 1.224169 | 5.265 | 50.291 | 50.8 |

APPLICATION FOR STATION LICENSE
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DALLAS, TEXAS
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EXHIBIT #6H

KCTK Sample Line - Tower #3



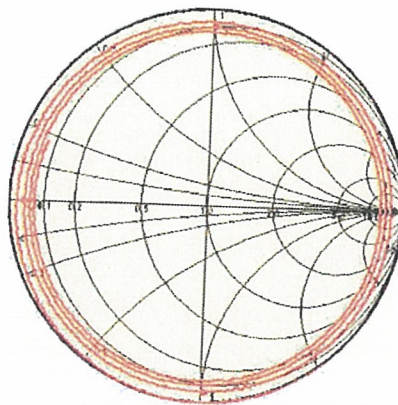
| Marker | Freq | R _s | X _s |
|--------|----------|----------------|----------------|
| [1] | 0.874939 | 3.158 | -50.735 |
| [2] | 1.049927 | 2.074 | 0.000 |
| [3] | 1.224915 | 5.013 | 50.395 |
| [4] | 1.753824 | 2.711 | -0.000 |

| | | | | | |
|---------------------------------|----------|------------------------------------|----------|--------------------------------------|----------|
| Station Freq (MHz) | 1.31 | Resonant Freq (MHz) | 1.049927 | Resonant Freq (MHz) | 1.753824 |
| Closest To Station Freq | 1.049927 | Line Velocity Factor From Mfg. (%) | 88 | | |
| Length of Line ° @ Station Freq | 336.9 | Calculated Physical Length | 618.6 | feet | |
| -45° Offset (MHz) | 0.874939 | Resistance | 3.158 | Impedance at Offset Freq | |
| +45° Offset (MHz) | 1.224915 | | 5.013 | Reactance | -50.735 |
| | | | | | 50.395 |
| | | | | Line Characteristic Impedance (Ohms) | 50.7 |

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EXHIBIT #6I

KCTK Sample Line - Tower #4



| Marker | Freq | R _s | X _s |
|--------|----------|----------------|----------------|
| [1] | 0.874940 | 3.111 | -50.826 |
| [2] | 1.049928 | 1.965 | 0.000 |
| [3] | 1.224916 | 5.029 | 50.349 |
| [4] | 1.753796 | 2.690 | 0.000 |

| | | | |
|---------------------------------|---------------------|------------------------------------|--------------------------------------|
| Station Freq (MHz) | Resonant Freq (MHz) | Resonant Freq (MHz) | |
| 1.31 | 1.049928 | 1.753796 | |
| Closest To Station Freq | | Line Velocity Factor From Mfg. (%) | |
| 1.049928 | | 88 | |
| Length of Line ° @ Station Freq | | Calculated Physical Length | |
| 336.9 | | 618.6 | feet |
| -45° Offset (MHz) | Resistance | Impedance at Offset Freq | Line Characteristic Impedance (Ohms) |
| 0.874940 | 3.111 | Reactance | |
| +45° Offset (MHz) | | -50.826 | |
| 1.224916 | 5.029 | 50.349 | 50.8 |

APPLICATION FOR STATION LICENSE
SUSQUEHANNA RADIO CORP.
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EXHIBIT #7

Reference Field Strength Measurements

Reference field strength measurements were made at three locations along radials on the station monitor point azimuths as specified in the construction permit for the daytime array. In addition three locations were measured in the station's daytime major lobe of 256.5°. Reference field strength measurements were made at three locations along radials on the station monitor point radials as specified in the station license for the nighttime array. In addition three locations were measured in the station's nighttime major lobe of 247.5°. The tabulated measured field strengths, descriptions and GPS coordinates for the reference measurement points during nighttime operation are attached as Exhibit 7A. The GPS unit used was a Delorme LT-40 with Delorme Street Atlas 2008 system with WAAS activated, Datum NAD '83, CONUS and coordinate format DD-MM-SS.s.

KTCK Dallas TX Daytime Array Field Measurements
1310

| Radial (°T) | Point # | N. Latitude | W. Longitude | Dist (mi) | Dist (km) | mv/m | Time (24 hr) | Date | Description |
|---|---------|-------------|--------------|-----------|-----------|--------|--------------|-----------|--|
| Monitor Point Radial Specified on Construction Permit | | | | | | | | | |
| 59.0 | 1 | 32-57-39.1 | 96-54-26.8 | 2.17 | 3.49 | 135.00 | 1056 | 1/24/2011 | Driveway of 1613 Denton Dr. |
| 59.0 | 2 | 32-58-17.4 | 96-53-10.2 | 3.63 | 5.84 | 120.00 | 1023 | 1/24/2011 | West Bound Keller Springs, North Side of Street on Bridge over Hutton Branch |
| 59.0 | 3 | 32-58-41.6 | 96-52-23.3 | 4.52 | 7.28 | 80.00 | 1014 | 1/24/2011 | Sidewalk - 2239 Souther Circle - 20 ft from Kelly Blvd. |
| Monitor Point Radial Specified on Construction Permit | | | | | | | | | |
| 179.5 | 1 | 32-54-11.4 | 96-56-18.5 | 2.86 | 4.61 | 105.00 | 1320 | 1/24/2011 | Sidewalk - 430 La Villeta Blvd. |
| 179.5 | 2 | 32-53-09.5 | 96-56-22.0 | 3.40 | 5.47 | 80.00 | 1500 | 1/24/2011 | Sidewalk - Building 3, Suite 112 Dallas Communications Complex |
| 179.5 | 3 | 30-39-42.2 | 88-03-43.0 | 3.12 | 5.02 | 31.00 | 1320 | 1/24/2011 | North side Customer Way by Fire Plug beside Nieman Marcus Direct Mail Center |
| Monitor Point Radial Specified on Construction Permit | | | | | | | | | |
| 350.0 | 1 | 32-57-57.3 | 96-56-43.4 | 1.51 | 2.44 | 350.00 | 1135 | 1/24/2011 | 1601 Sandy Lake Rd by "Posted" sign |
| 350.0 | 2 | 32-59-37.9 | 96-57-02.1 | 3.48 | 5.60 | 80.00 | 1107 | 1/24/2011 | Driveway Hank Haney Golf Ranch |
| 350.0 | 3 | 33-00-33.2 | 96-57-34.8 | 4.63 | 7.44 | 27.00 | 1528 | 1/26/2011 | Intersection of drive to adjacent property Parking Lot DCT Hebron Station |

Geographic Coordinates Datum: NAD '83 CONUS

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

FIM: Potomac : FIM-41 : SN 571 : Calibrated 07/02/97

GPS: Delorme LT-40 with Delorme Street Atlas 2008 : WAAS Enabled

Field Measurements: Bill Guyger

EXHIBIT #7A
APPLICATION FOR STATION LICENSE
SUSQUEHANNA RADIO CORP.
KTCK AM RADIO STATION
1310 kHz - 5.0/25.0 kW DA2
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Major lobe Radial - Daytime

| | | | | | | | | | |
|-------|---|------------|------------|------|------|--------|------|-----------|--|
| 256.5 | 1 | 32-56-01.1 | 96-59-38.4 | 3.23 | 5.20 | 238.00 | 1155 | 1/24/2011 | 1405 Beltline @ South end of Lot Entry Drive near small creek |
| 256.5 | 2 | 32-55-41.9 | 97-01-11.4 | 4.78 | 7.69 | 192.00 | 1304 | 1/24/2011 | On Berm in Front of 8710 N. Royal Lane |
| 256.5 | 3 | 32-55-32.8 | 97-01-56.2 | 5.52 | 8.89 | 175.00 | 1311 | 1/24/2011 | North Shoulder of West Bound North Airfield Drive |

Geographic Coordinates Datum: NAD '83 CONUS

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

FIM: Potomac : FIM-41 : SN 571 : Calibrated 07/02/97

GPS: Delorme LT-40 with Delorme Street Atlas 2008 : WAAS Enabled

Field Measurements: Bill Guyger

EXHIBIT #7B
APPLICATION FOR STATION LICENSE
SUSQUEHANNA RADIO CORP.
KTCK AM RADIO STATION
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KTCK Dallas TX Nighttime Array Field Measurements

| 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 | | | | | | | | | |
| 62.5 | 1 | 32-57-31.9 | 96-54-24.9 | 2.15 | 3.46 | 12.00 | 1518 | 1/26/2011 | Cotton Street at Entrance of 1st Driveway off Denton Drive, S. Side of Cotton |
| 62.5 | 2 | 32-57-58.4 | 96-53-23.3 | 3.23 | 5.19 | 10.00 | 1507 | 1/26/2011 | East Side of Josey Ln at Private Entrance |
| 62.5 | 3 | 32-58-18.3 | 96-52-39.3 | 4.07 | 6.55 | 5.00 | 1500 | 1/26/2011 | Drive of Akzonobel Paint Plant 2204 Kelly Blvd. on Water Meter |
| Monitor Point Radial Specified on Station License | | | | | | | | | |
| 191.0 | 1 | 32-55-2.1 | 96-56-45.6 | 1.92 | 3.09 | 150.00 | 1700 | 1/26/2011 | SW Corner of Ranch View High School Parking Lot |
| 191.0 | 2 | 32-54-15.9 | 96-56-55.4 | 2.82 | 4.53 | 118.00 | 1710 | 1/26/2011 | Top of Storm Drain East Bound La Villita Rd. |
| 191.0 | 3 | 32-53-47.7 | 96-57-03.7 | 3.37 | 5.42 | 76.00 | 1720 | 1/26/2011 | NE Corner of Royal Ln. & Las Colinas Blvd corner of Citi Financial Parking Lot |
| Monitor Point Radial Specified on Station License | | | | | | | | | |
| 220.0 | 1 | 32-55-08.3 | 96-57-54.8 | 2.31 | 3.71 | 221.00 | 1650 | 1/26/2011 | NE Corner of Market Place Blvd & Walton Blvd. |
| 220.0 | 2 | 32-54-10.8 | 96-58-52.3 | 3.74 | 6.02 | 150.00 | 1635 | 1/26/2011 | parking lot for PetSmart & Office Depot. |
| 220.0 | 3 | 32-53-37.5 | 96-59-26.0 | 4.58 | 7.36 | 110.00 | 1627 | 1/26/2011 | South End of Bridge on North Bound Royal Ln. Berm on Gateway Drive, 75 ft East of Beltline fron of 6220 Beltline Suite 110. |
| Monitor Point Radial Specified on Station License | | | | | | | | | |
| 355.5 | 1 | 32-57-54.7 | 96-56-30.9 | 1.45 | 2.33 | 22.80 | 1128 | 1/26/2011 | Driveway Elm Fork Nature Preserve leading to Picnic Area / Soccer Field. South Side of |
| 355.5 | 2 | 32-59-28.9 | 96-56-48.0 | 3.27 | 5.27 | 13.20 | 1115 | 1/26/2011 | Sandy Lake Road to left off main entry. |
| 355.5 | 3 | 33-00-58.3 | 96-56-56.5 | 4.97 | 8.00 | 22.20 | 1540 | 1/26/2011 | SE Corner of Parking lot of 3301 I-35East. 3697 Stockton Dr |

Geographic Coordinates Datum: NAD '83 CONUS
Latitude and Longitude Format: DD-MM-SS.s

FIM: Potomac : FIM-41 : SN 571 : Calibrated 07/02/97

GPS: Delorme LT-40 with Delorme Street Atlas 2008 : WAAS Enabled

Field Measurements: Bill Guyger

EXHIBIT #7C
APPLICATION FOR STATION LICENSE
SUSQUEHANNA RADIO CORP.
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Major lobe Radial - Nighttime

| | | | | | | | | | |
|-------|---|------------|------------|------|------|--------|------|-----------|---|
| 247.5 | 1 | 32-55-33.5 | 96-59-34.9 | 3.35 | 5.40 | 122.00 | 1202 | 1/26/2011 | Abandoned Drive - Hackberry Drive, East of Bettline Road, 50 ft North Of Hackberry NE Corner of Royal Ln. & Esters Rd. parking lot at 8300 Esters North shoulder of North Airfield Drive adjacent to FedEx facility. |
| 247.5 | 2 | 32-55-15.3 | 97-00-27.5 | 4.26 | 6.86 | 85.00 | 1242 | 1/26/2011 | |
| 247.5 | 3 | 32-55-01.0 | 97-01-09.4 | 4.99 | 8.03 | 107.00 | 1255 | 1/26/2011 | |

Geographic Coordinates Datum: NAD '83 CONUS
Latitude and Longitude Format: DD-MM-SS.s

FIM: Potomac : FIM-41 : SN 571 : Calibrated 07/02/97

GPS: Delorme LT-40 with Delorme Street Atlas 2008 : WAAS Enabled

Field Measurements: Bill Guyger

EXHIBIT #7D
APPLICATION FOR STATION LICENSE
SUSQUEHANNA RADIO CORP.
KTCK AM RADIO STATION
1310 kHz - 5.0/25.0 kW DA2
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APPLICATION FOR STATION LICENSE
SUSQUEHANNA RADIO CORP.
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BP-20091116ADS
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EXHIBIT #8

Antenna Monitor Calibration

The antenna monitor at the site is a Potomac Instruments AM-1901, SN 109 and was calibrated on site according to the manufacturer's specifications.

APPLICATION FOR STATION LICENSE
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EXHIBIT #9

Summary of Post-Construction Certified Array Geometry

The tower relative distances, provided in feet on the Certified Survey, are converted to electrical degrees at 1310 kHz and used, along with the survey tower azimuths relative to True North, to calculate the distances in electrical degrees from the location specified in the theoretical directional antenna pattern array geometry. Below is a tabulation showing those distances and other data that is relevant to their determination.

| Tower | Specified Array Geometry | | | Post-Construction Certification* | | From Specified Base | |
|--------|--------------------------|-------------------|---------------------------|----------------------------------|---------------------------|---------------------|-----------|
| | Spacing (degrees) | Spacing (feet) | Azimuth (degrees true) | Spacing (feet) | Azimuth (degrees true) | (feet) | (degrees) |
| 1 (ne) | 90.00 | 187.83 | 0.00 | 189.26 | 359.77 | 1.43 | 0.23 |
| 2 (ce) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3 (se) | 90.00 | 187.83 | 180.00 | 189.54 | 179.57 | 1.71 | 0.43 |
| 4 (w) | 90.00 | 187.83 | 290.00 | 189.35 | 289.77 | 1.52 | 0.23 |

Tolerance - Distance from Specified Base - 1.5°

Survey Variance in Feet / Degrees @ 1310 kHz

| Tower | Feet | * @ 1310 kHz |
|-------|------|--------------|
| 1 | 1.62 | 0.78 |
| 2 | 0.00 | 0.00 |
| 3 | 2.21 | 1.06 |
| 4 | 1.69 | 0.81 |

The "as built" tower displacements from their specified locations expressed in electrical degrees at carrier frequency, which corresponds to space phasing differences in the far-field radiation pattern of the array, are well below the +/- 3 degree operating phase range specified for antenna monitor parameters by the FCC Rules.



EXHIBIT #9A
APPLICATION FOR STATION LICENSE
SUSQUEHANNA RADIO CORP.
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1310 kHz - 5.0/25.0 kW DA2
BP-20091116ADS
DALLAS, TEXAS
January 2011

January 25, 2011
AVO 27523 SG01

Cumulus Media Partners
900 E. Ledbetter Drive
Coppell, TX 75019

Attn: Mr. Bill Guyger

Re: Geodetic location of four radio towers for KTCK radio station located at 900 E. Ledbetter Drive in Coppell, Texas.

Bill:

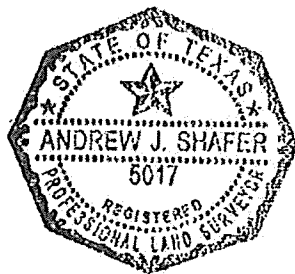
As requested, please find below the results of our calculations showing the geodetic location of and positioning, by azimuth from north and distance of towers 1, 3, and 4 from tower 2 for the four radio towers located at the referenced site.

| Tower No. | Latitude | Longitude | Ground Elevation |
|-----------|---------------|---------------|------------------|
| 1 | 32 56 41.83 N | 96 56 23.46 W | 434 ft |
| 2 | 32 56 39.96 N | 96 56 23.46 W | 434 ft |
| 3 | 32 56 38.08 N | 96 56 23.46 W | 435 ft |
| 4 | 32 56 40.60 N | 96 56 25.55 W | 434 ft |

From the reference Tower #2

To Tower 1: 189.26 feet on a bearing (Azimuth) from True North of 359.7654 degrees
To Tower 3: 189.54 feet on a bearing (Azimuth) from True North of 179.5733 degrees
To Tower 4: 189.35 feet on a bearing (Azimuth) from True North of 289.7739 degrees

The geodetic values are North American Datum of 1927 (NAD27) using GPS surveying technology. GPS data was obtained using Real Time Kinematic (RTK) surveying from a Virtual Reference Station (VRS) network maintained by Western Data Systems. Three Texas Department of Transportation GPS satellite stations were located and tied into for a horizontal check. Elevations are GPS derived and are relative to the North American Vertical Datum of 1988 (NAVD88).



Sincerely,

HALFF ASSOCIATES, INC.

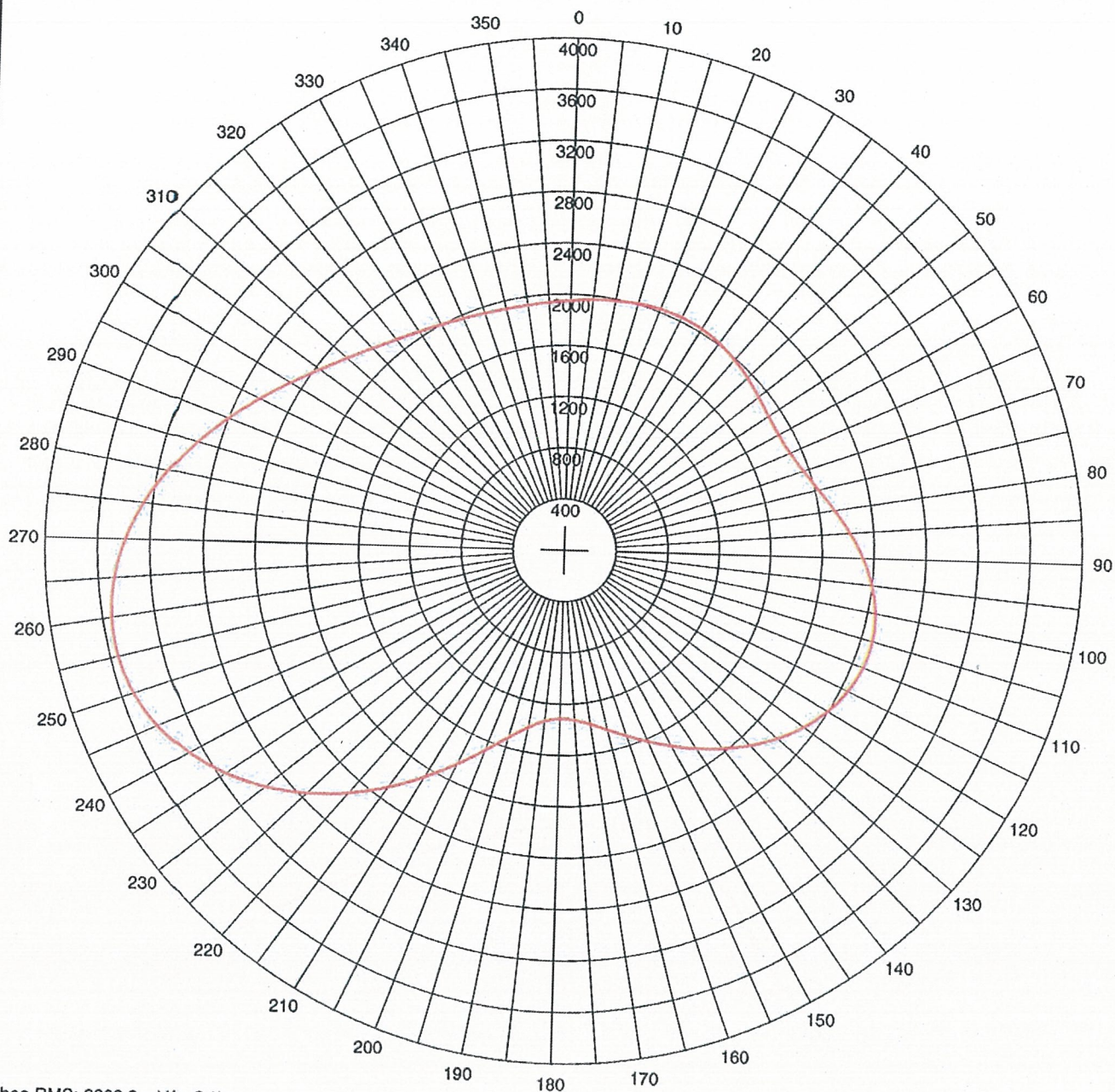
Andrew J. Shafer
Andrew J. Shafer, RPLS
Survey Department Manager

HALFF ASSOCIATES, INC.

1201 NORTH BOWSER ROAD
RICHARDSON, TX 75081-2275

TEL (214) 346-6200
FAX (214) 739-0095

WWW.HALFF.COM



Theo RMS: 2203.2 mV/m@1km
 Std RMS: 2314.449 mV/m@1km
 Q: 67.623 mV/m@1km

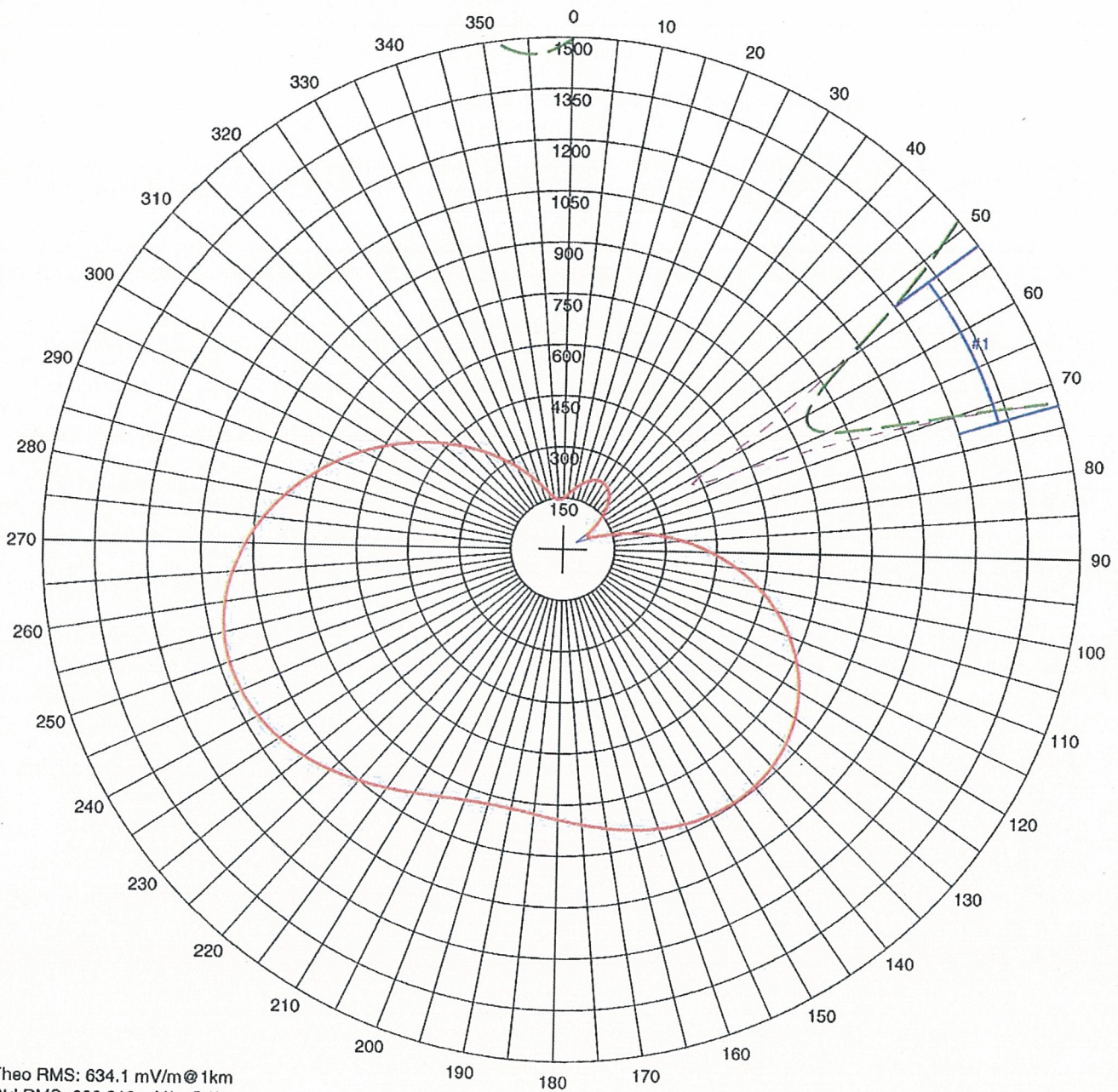
Standard Horizontal Plane Pattern

— 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 | 0.677 | -63.0 | 90.0 | 0.0 | 225.4 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2 | 1.000 | 0.0 | 0.0 | 0.0 | 225.4 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | 0.553 | -131.0 | 90.0 | 180.0 | 225.4 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4 | 0.412 | 173.0 | 90.0 | 290.0 | 225.4 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |

Call: KTCK
 Freq: 1310 kHz
 DALLAS, TX, US
 Hours: D
 Lat: 32-56-41 N
 Lng: 096-56-25 W
 Power: 25.0 kW
 Theo RMS: 2203.20 mV/m@1km
 @ 25.0 kW

EXHIBIT #10



Theo RMS: 634.1 mV/m@1km
 Std RMS: 666.219 mV/m@1km
 Aug RMS: 666.317 mV/m@1km
 Q: 22.361 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 |
|---|-------------|-------------|---------------|--------------|--------------|------------|
| 1 | 1.000 | 0.0 | 0.0 | 0.0 | 225.4 | 0 |
| 2 | 0.850 | -105.0 | 90.0 | 180.0 | 225.4 | 0 |
| 3 | 0.520 | 188.0 | 90.0 | 290.0 | 228.4 | 0 |

| # | Azimuth (deg) | Radiation (mV/m@1km) | Span (deg) |
|---|---------------|----------------------|------------|
| 1 | 62.50 | 80.47 | 20.0 |

Call: KTCK
 Freq: 1310 kHz
 DALLAS, TX, US
 Hours: N
 Lat: 32-56-41 N
 Lng: 096-56-25 W
 Power: 5.0 kW
 Theo RMS: 634.10 mV/m@1km
 @ 5.0 kW
 # of Augmentations: 1

EXHIBIT #11

**The State of Texas
The County of Dallas**

William M. Guyger Jr., having been duly sworn, states the following:

That he is employed by Cumulus Media Partners, Inc. to conduct Antenna System, Sample System, and Field Measurements on Radio Station KTCK. 1310 kHz.

That he is familiar with the operation of the test equipment used as well as the proper Methods and procedures used to conduct antenna system measurements, sample system measurements, and field strength measurements on AM Radio Stations.

That he personally conducted field intensity measurements between January 24 and January 26 of 2011, on Radio Station KTCK; and that he personally conducted measurements on the Antenna and Sampling System and Transmission System of Radio Station KTCK between December 9 and December 29 of 2010.

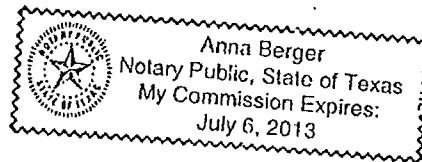
That the equipment used in conducting these measurements used in conducting these measurements was as follows:

Potomac Instruments FIM-41 S/N 365 last calibrated 07/02/97
Delta Electronics OIB-3 S/N 571 last calibrated 09/24/98
Array Solutions PA120 S/N 1145

That all data relating to these measurements is true and correct to the best of his knowledge;

This the 26th day of January, 2011

William M. Guyger Jr.
Signature



Sworn to and subscribed before me
This 26 day of Jan 2011

Anna Berger
Notary Public

EXHIBIT #12
APPLICATION FOR STATION LICENSE
SUSQUEHANNA RADIO CORP.
KTCK AM RADIO STATION
1310 kHz - 5.0/25.0 kW DA2
BP-20091116ADS
DALLAS, TEXAS
January 2011

AFFIDAVIT AND QUALIFICATIONS OF CONSULTANT

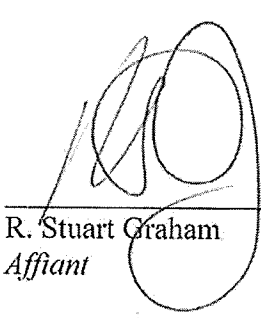
State of Georgia)
St. Simons Island) ss:
County of Glynn)

R. Stuart Graham, being duly sworn, deposes and says that he is an officer of Graham Brock, Inc. Graham Brock has been engaged by Susquehanna Radio Corp., 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.

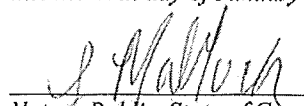
The attached report was either prepared by him or under his direction and all material and exhibits attached hereto are believed to be true and correct.

This the 27th day of January 2011.



R. Stuart Graham
Affiant

Sworn to and subscribed before me
this the 27th day of January 2011



Notary Public, State of Georgia
My Commission Expires: June 16, 2012