

ORIGINAL

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Federal Communications Commission
Washington, D. C. 20554

Approved by OMB
3060-0627
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FOR
FCC
USE
ONLY

MAY 16 2016

Federal Communications Commission
Office of the Secretary

FCC 302-AM
APPLICATION FOR AM
BROADCAST STATION LICENSE

(Please read instructions before filling out form.)

FOR COMMISSION USE ONLY

FILE NO. B2-20160516 ACR

SECTION I - APPLICANT FEE INFORMATION

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

CBS Corporation

MAILING ADDRESS (Line 1) (Maximum 35 characters)

1800 K. Street, NW

MAILING ADDRESS (Line 2) (Maximum 35 characters)

Suite 920

CITY

Washington

STATE OR COUNTRY (if foreign address)

DC

ZIP CODE

20006

TELEPHONE NUMBER (include area code)

202-457-4518

CALL LETTERS

KNX(AM)

OTHER FCC IDENTIFIER (if applicable)

Facility ID 9616

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:

Direct Measurement Request

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

(A)

| | | |
|---------------|--|--|
| FEE TYPE CODE | | |
| | | |

(B)

| | | | |
|--------------|---|---|---|
| FEE MULTIPLE | | | |
| 0 | 0 | 0 | 1 |

(C)

| |
|---|
| FEE DUE FOR FEE TYPE CODE IN COLUMN (A) |
| \$ |

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|--|

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

(A)

| | | |
|--|--|--|
| | | |
|--|--|--|

(B)

| | | | |
|---|---|---|---|
| 0 | 0 | 0 | 1 |
|---|---|---|---|

(C)

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

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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

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

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AUDIO SERVICES DIVISION

| | | |
|--|-------------|-------------------|
| SECTION II - APPLICANT INFORMATION | | |
| 1. NAME OF APPLICANT CBS Radio East Inc. | | |
| MAILING ADDRESS 1800 K. Street, NW; Suite 920 | | |
| CITY Washington | STATE DC | ZIP CODE 20006 |

2. This application is for:

- Commercial Noncommercial
 AM Directional AM Non-Directional

| | | | | |
|--------------------------------------|-------------------------------------|-------------------------------------|---|---|
| Call letters KNX(AM)(Aux Antenna) | Community of License Los Angeles | Construction Permit File No. N/A | Modification of Construction Permit File No(s). | Expiration Date of Last Construction Permit |
|--------------------------------------|-------------------------------------|-------------------------------------|---|---|

3. Is the station now operating pursuant to automatic program test authority in accordance with 47 C.F.R. Section 73.1620?

Yes No

Exhibit No.

If No, explain in an Exhibit.

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

Yes No

Exhibit No.

If No, state exceptions in an Exhibit.

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

Exhibit No.

If Yes, explain in an Exhibit.

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

Exhibit No.

If No, explain in an Exhibit.

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

Exhibit 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.

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 Jo Ann Haller | Signature <i>Jo Ann Haller</i> | |
| Title Senior Vice President | Date <i>5/11/2016</i> | Telephone Number (212) 649-9655 |

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

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

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

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

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

SECTION III - LICENSE APPLICATION ENGINEERING DATA

Name of Applicant

CBS Radio East Inc.

PURPOSE OF AUTHORIZATION APPLIED FOR: (check one)

Station License

Direct Measurement of Power

| | | | | | |
|---|--|------------------------------------|--|--|--------------------|
| 1. Facilities authorized in construction permit | | | | | |
| Call Sign KNX(AM Aux) | File No. of Construction Permit (if applicable) N/A | Frequency (kHz) 1070 | Hours of Operation Unlimited | Power in kilowatts | |
| | | | | Night 50.0 | Day 50.0 |
| 2. Station location | | | | | |
| State California | | | City or Town Los Angeles | | |
| 3. Transmitter location | | | | | |
| State CA | County Los Angeles | City or Town Torrance | | Street address (or other identification) 4301 190th Street | |
| 4. Main studio location | | | | | |
| State CA | County Los Angeles | City or Town Los Angeles | | Street address (or other identification) 5670 Wilshire Blvd., Suite 200 | |
| 5. Remote control point location (specify only if authorized directional antenna) | | | | | |
| State | County | City or Town | | Street address (or other identification) | |

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.

| | | | | | | |
|---|---|---------------|---|-------|-----------------------|-----|
| 8. Operating constants: | | | | | | |
| RF common point or antenna current (in amperes) without modulation for night system | | | RF common point or antenna current (in amperes) without modulation for day system | | | |
| Measured antenna or common point resistance (in ohms) at operating frequency | | | Measured antenna or common point reactance (in ohms) at operating frequency | | | |
| Night | Day | Night | Day | Night | Day | |
| 196.1 | 196.1 | +328.3 | +328.3 | | | |
| 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 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Manufacturer and type of antenna monitor: | | | | | | |

SECTION III - Page 2

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

| | | | | |
|-------------------------------------|--|--|--|---|
| Type Radiator Guyed Tower | Overall height in meters of radiator above base insulator, or above base, if grounded. 113.2 | Overall height in meters above ground (without obstruction lighting) 114.4 | Overall height in meters above ground (include obstruction lighting) 114.4 | If antenna is either top loaded or sectionalized, describe fully in an Exhibit. <div style="border: 1px solid black; padding: 2px;">Exhibit No. N/A</div> |
|-------------------------------------|--|--|--|---|

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 33 ° 51 ' 38 " | West Longitude 118 ° 20 ' 54 " |
|--|---|

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.
N/A

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

Exhibit No.
On File / No Change

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

N/A

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

Replacement of tower lighting system.

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) Daniel G. Ryson | Signature (check appropriate box below)  |
| Address (include ZIP Code) CBS Communications, Inc. 1800 K. Street, NW; Suite 920 Washington, DC | Date May 4, 2016 |
| | Telephone No. (Include Area Code) (202) 457-4518 |

Technical Director

Registered Professional Engineer

Chief Operator

Technical Consultant

Other (specify)

ORIGINAL

Antenna Base Impedance Measurements

KNX 1070 kHz 50 KW, Class A

Los Angeles, CA

CBS Radio Inc.

Auxiliary Antenna

For Direct Measurement of Power

March 27, 2016

Burt I. Weiner Associates

210 Allen Avenue

Glendale, CA 91201

www.biwa.cc

ENGINEERING STATEMENT OF BURT I. WEINER

On March 27, 2016 Impedance Measurements were made of the KNX 1070 kHz Auxiliary antenna tower. The measurements described in this report follow the replacement of the tower's original incandescent tower lighting with a new LED lighting system.

The auxiliary tower has an isolation coil across its base to ground on the antenna side of the Base Current meter. This coil was used to isolate the current sample loop on this tower when it was used at an earlier time as part of the KNX experimental Directional Antenna System. The isolation coil has a tap that is connected to one side of a contactor. When this tower is in the standby mode the contactor disconnects the tower from the tuning network and grounds the tap on the isolation coil to de-tune the tower at the station's operating frequency. For these measurements the contactor was in the non-detuned (operating) position.

The isolation coil also provides a DC path to ground for static drain, and by design lowers the base impedance of the tower and is therefore a part of the antenna. For those reasons the isolation coil was left connected for these measurements.

Mr. Lynn Duke and Mr. Tom Finnegan of the KNX Radio Engineering Department Assisted in making these measurements.

METHOD OF MEASUREMENT

An Array Solution's Power AIM-120 Network Analyzer was used for these measurements. The Power AIM-120 and associated computer were placed near the Antenna Base Current meter connection to the auxiliary antenna tower.

A 5-foot test cable with clips was connected to the unknown port on the Power AIM-120. Immediately prior to making these measurements the Power AIM-120 was calibrated, as prescribed by the manufacturer to the end of the test cable using a Short, an Open, and a precision 50 Ohm calibrating resistor.

The lead from the antenna side of the base meter was disconnected and the test lead from the Power AIM-120 was connected to the antenna at that point. A sweep of the auxiliary antenna base impedance spanning +/- 30 kHz of 1070 kHz in 5 kHz steps produced the readings shown on the following pages.

KNX 1070 kHz AUX ANTENNA IMPEDANCE MEASUREMENTS

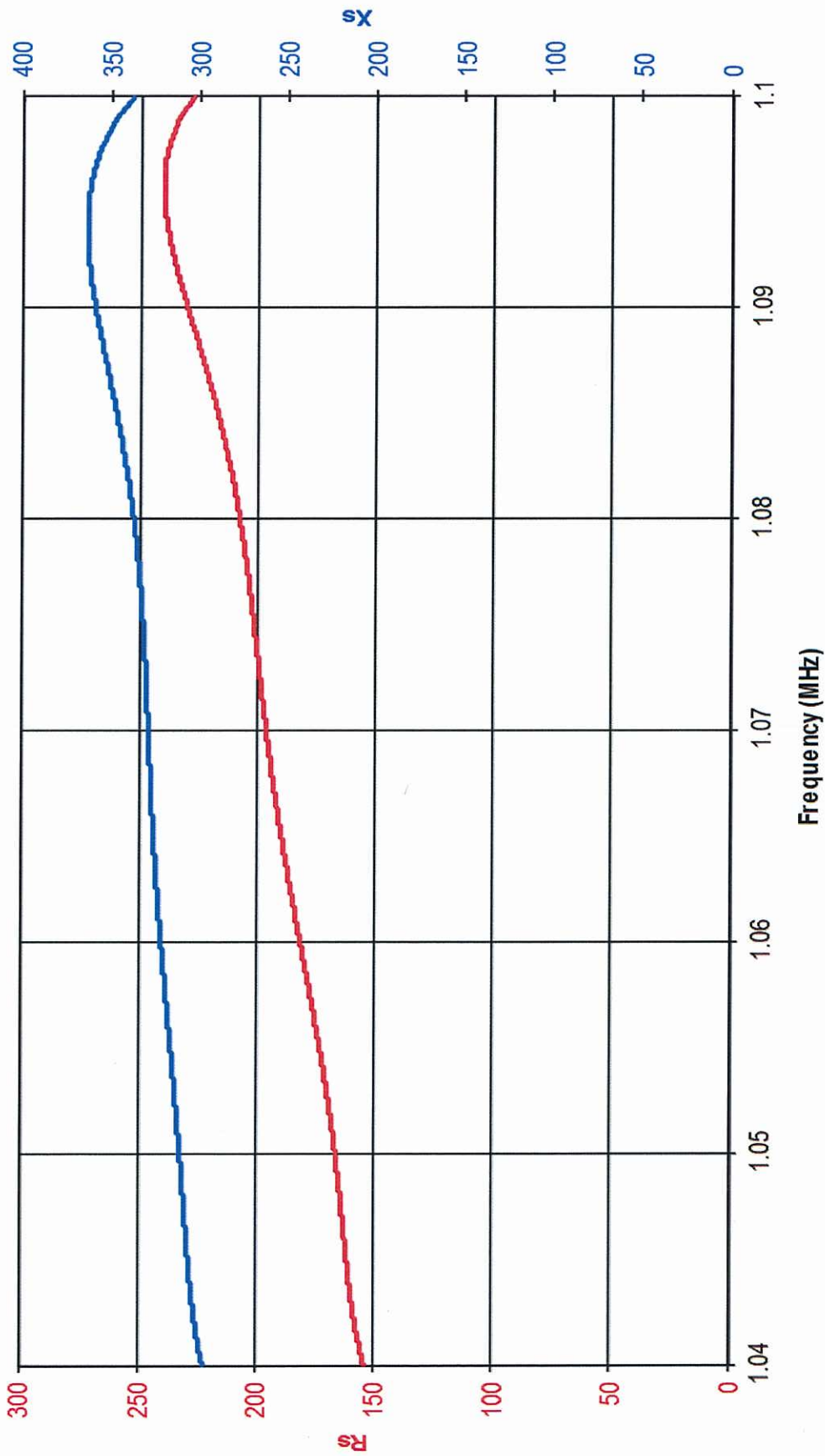
MARCH 27, 2016

| <u>FREQUENCY</u> | <u>RESISTANCE</u> | <u>REACTANCE</u> |
|------------------|-------------------|------------------|
| 1040 kHz | 154.0 | +196.6 |
| 1045 kHz | 161.6 | +305.1 |
| 1050 kHz | 166.5 | +309.8 |
| 1055 kHz | 173.2 | +315.2 |
| 1060 kHz | 181.5 | +320.8 |
| 1065 kHz | 189.6 | +325.2 |
| 1070 kHz* | 196.1 | +328.3 |
| 1075 kHz | 201.4 | +331.3 |
| 1080 kHz | 207.6 | +336.9 |
| 1085 kHz | 217.1 | +346.6 |
| 1090 kHz | 230.1 | +358.5 |
| 1095 kHz | 239.9 | +362.7 |
| 1100 kHz | 227.3 | +337.1 |

*Operating Frequency

SUMMARY OF VALUES AT OPERATING FREQUENCY

| | | |
|----------|----------|-----------------------|
| <u>R</u> | <u>X</u> | <u>I</u> |
| 196.1 | +328.3 | 15.96 Amperes (50 kW) |



KNX 1070 AUX ANTENNA IMPEDANCE GRAPH - MARCH 27, 2016

Qualifications of Engineer

Burt I. Weiner, whose office is located at 210 Allen Avenue, Glendale California, hereby states that he has been actively involved in broadcast engineering since 1957; that his qualifications as a technical consultant are a matter of record with the Federal Communications Commissions; that he has prepared this report for Radio Station KNX 1070 kHz, Los Angeles, California; that he made the equipment performance measurements shown in this report; and that all of the data contained in this report is accurate and correct to the best of his knowledge and ability.

March 27, 2016



Burt I. Weiner

