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REGISTRATION SERVICES DIVISION

2012 MAY 21 A 6:54

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May 16, 2012

FILED/ACCEPTED

MAY 16 2012

Federal Communications Commission
Office of the Secretary

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* NOT ADMITTED IN VIRGINIA

BY HAND DELIVERY

Marlene H. Dortch, Esquire
Secretary
Federal Communications Commission
445 12th Street, S.W.
Washington, D.C. 20554

**Re: KLRK(AM), Facility ID No. 21493
Mexia, Texas
File No. BMML-20120312ADH**

Dear Ms. Dortch:

Transmitted herewith in triplicate, on behalf of M&M Broadcasters, Ltd., licensee of KLRK(AM), Mexia, Texas, is an amendment to its above-referenced application for license to cover construction permit for modification of facilities.

Should any questions arise concerning this matter, please communicate with the undersigned.

Very truly yours,

Anne Goodwin Crump
Counsel for M&M Broadcasters, Ltd.

AGC:dl

Enclosures

cc: Ms. Ann Gallagher (with enclosure) **By E-Mail (Ann.Gallagher@fcc.gov)**

FOR
FCC
USE
ONLY

FCC 302-AM
APPLICATION FOR AM
BROADCAST STATION LICENSE

(Please read instructions before filling out form.)

FOR COMMISSION USE ONLY

FILE NO.

2020312 ADH

SECTION I - APPLICANT FEE INFORMATION

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

M&M Broadcasters, Ltd.

MAILING ADDRESS (Line 1) (Maximum 35 characters)

P.O. Box 1629

MAILING ADDRESS (Line 2) (Maximum 35 characters)

CITY

Cleburne

STATE OR COUNTRY (if foreign address)

TX

ZIP CODE

76033

TELEPHONE NUMBER (include area code)

817 645 6643

CALL LETTERS

KLRK

OTHER FCC IDENTIFIER (If applicable)

21493

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): **Amendment**

C. If Yes, provide the following information:

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

(A)

FEE TYPE CODE		

(B)

FEE MULTIPLE			
0	0	0	1

(C)

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

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)

--	--	--

(B)

0	0	0	1
---	---	---	---

(C)

\$

FOR FCC USE ONLY

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

TOTAL AMOUNT
REMITTED WITH THIS
APPLICATION

\$

FOR FCC USE ONLY

SECTION II - APPLICANT INFORMATION		
1. NAME OF APPLICANT M&M BROADCASTERS, LTD		
MAILING ADDRESS P. O. BOX 1629		
CITY CLEBURNE	STATE TEXAS	ZIP CODE 76033

2. This application is for:

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

Call letters KLRK	Community of License MEXIA	Construction Permit File No. BP-20100514ABJ	Modification of Construction Permit File No(s).	Expiration Date of Last Construction Permit 02/23/2014
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3. Is the station now operating pursuant to automatic program test authority in accordance with 47 C.F.R. Section 73.1620?

☐ Yes ☒ No

If No, explain in an Exhibit.

**Station is directional and is operating with program test authority
2012012ADJ**

Exhibit No.

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

☒ Yes ☐ No

If No, state exceptions in an Exhibit.

Exhibit No.

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

N/A

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 <i>GARY MOSS</i>	Signature <i>[Signature]</i>	
Title <i>President</i>	Date <i>4-24-12</i>	Telephone Number <i>817-645-6643</i>

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

M&M Broadcasters, LTD

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	
KLRK	BP-20100514ABJ	1590	Unlimited	Night .065	Day 2.5

2. Station location

State Texas	City or Town Mexia
-----------------------	------------------------------

3. Transmitter location

State TX	County LIMESTONE	City or Town PRAIRIE HILL	Street address (or other identification) LCR 326
--------------------	----------------------------	-------------------------------------	---

4. Main studio location

State TX	County MCLENNAN	City or Town WACO	Street address (or other identification) 5501 BAGBY
--------------------	---------------------------	-----------------------------	--

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

State TX	County MCLENNAN	City or Town WACO	Street address (or other identification) 5501 BAGBY
--------------------	---------------------------	-----------------------------	--

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.

SEE TECH EXHIBIT

8. Operating constants:

RF common point or antenna current (in amperes) without modulation for night system 1.18	RF common point or antenna current (in amperes) without modulation for day system 7.35
Measured antenna or common point resistance (in ohms) at operating frequency Night 50 Day 50	Measured antenna or common point reactance (in ohms) at operating frequency Night 0 Day 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	0	0	1	1		
2	+52	+52	.508	.508		
3	-.3	-.3	.468	.468		
4	+.5	+.5	.673	.673		

Manufacturer and type of antenna monitor:

POTOMAC INSTRUMENTS AM 1901-4

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 Uniform cross section 24" face guyed tower	Overall height in meters of radiator above base insulator, or above base, if grounded. 47.14	Overall height in meters above ground (without obstruction lighting) 48.2	Overall height in meters above ground (include obstruction lighting) 48.2	If antenna is either top loaded or sectionalized, describe fully in an Exhibit. <div>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 31 ° 37 ' 12 "	West Longitude 96 ° 45 ' 06 "
--	--

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

Exhibit No.
SEE TECH EXHIBIT

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) Charles W. Staples	Signature (check appropriate box below)
Address (include ZIP Code) 4424 Glenwick Lane University Park, Tx	Date 04/24/2012
	Telephone No. (Include Area Code) 214 526 6200

☐ Technical Director

☐ Registered Professional Engineer

☐ Chief Operator

☒ Technical Consultant

☐ Other (specify)

AMENDMENT TO TECHNICAL EXHIBIT
BMML 20120312ADH
FORM 302AM
KLRK (AM) FID 21493
Mexia, TX
M&M Broadcasters, LTD

AMENDED ITEMS

1. The form 302AM has been amended to include the manufacturer and type of antenna monitor.
2. Attached is an amended description of the sample lines and sample devices
3. Attached is a specification sheet from the manufacturer of the sampling devices with rated accuracies
4. Attached is an amended survey exhibit showing a comparison to the as built and authorized array geometry
5. Attached is an amended copy of the reference readings providing a specified reference datum of NAD83.
6. Attached is an amended copy of the KLRK Modeled Parameters at ATU from MOM model.

Amended Description of Sample System

The sample transformers utilized were four Phasetek P600-203 1.0V/A. The Phasetek toroidal sampling transformers were disconnected and measured with a common signal from a HP 8752A Network Analyzer (SN. 2901A00339). The signal was a CW signal from the reflection test port (RF Out) at 1590 KHz. The output port of each transformer was fed to the transmission test port (RF In) of the analyzer and compared against the reference transformer for phase and magnitude. All four were found to be within .527% ratio and .5° accuracy of each other. This equals or exceeds the manufacturer's specifications. See the following page for manufacturer's specifications. See Exhibit Three of the original application technical exhibit for details of sample system measurements and serial numbers of all four transformers.

The sample lines utilized consist of four Andrew LDF4-50, 50 ohm ½" Heliax coaxial cable that were matched to be the same electrical length.

PHASETEK INC.
TOROIDAL CURRENT TRANSFORMER
INSTRUCTION SHEET

DESCRIPTION:

Phasetek Inc.'s Toroidal Current Transformers are designed to provide an RF sample voltage proportional to the RF current flowing in a Conductor placed through the Toroidal Bushing. This sample voltage may be used for Antenna current monitoring or for remote current indication. Output sensitivities ranging from .25 V/A to 1.5 V/A are available (with 50 ohm termination).

INSTALLATION:

The Toroidal Current Transformer is contained in a sealed aluminum enclosure. Two, 1/4-20 mounting holes are provided on the bottom to mount and ground the unit. After the unit is securely mounted, the current carrying Conductor should be placed through the Teflon bushing and all connections tightened. For Antenna monitoring in Directional Arrays, all arrows on top of the units should be in the same direction (typically the direction of current flow). A type "N" female connector is provided to connect a 50 ohm coaxial Sampling Line.

MAINTENANCE:

Periodically, the unit should be inspected for signs of arcing, cleaned to remove any debris, and the connector connection cleaned and checked for tightness.

SPECIFICATIONS – ELECTRICAL

Operating Frequency Range:	0.5 to 2 MHz
Operating Temperature Range:	-10° C to +80° C
Load Termination:	50 Ohms
Output Magnitude Accuracy:	± 1.5%
Output Phase Accuracy:	± 2.0°
Magnitude Tracking Accuracy:	± 1.0%
Phase Tracking Accuracy:	± 1.0°
Maximum Operating Voltage:	11.5 kV @ 25° C

SPECIFICATIONS – MECHANICAL

Overall Size:	5" Wide x 2-3/8" Deep x 6" High
Output Connector:	Type "N" Female
Mounting:	(2) 1/4-20 Tapped Mounting Hole

STANDARD UNITS

Part Number	Sensitivity and Current Range
P600-201	0.25 V/A, 0-80 Amp
P600-202	0.50 V/A, 0-40 Amp
P600-203	1.00 V/A, 0-20 Amp
P600-204	1.50 V/A, 0-13 Amp

Accuracy of As Built Array

Tower 1 to Tower 2 bearing CP: 10 degrees True
Tower 1 to Tower 2 bearing as built: 10 degrees True,
Error = 0 degrees

Tower 1 to Tower 2 distance CP: 197.61 feet
Tower 1 to Tower 2 distance as built: 197.7 feet
Error = .09 foot

Tower 1 to Tower 3 bearing CP: 355 degrees True
Tower 1 to Tower 3 bearing as built: 355 degrees True
Error = 0 degrees

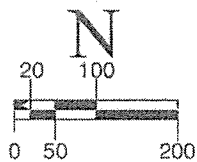
Tower 1 to Tower 3 distance CP: 309.3 feet
Tower 1 to Tower 3 distance as built: 309.3 feet
Error = 0 feet

Tower 1 to Tower 4 bearing CP: 355 degrees True
Tower 1 to Tower 4 bearing as built: 355 degrees True
Error = 0 degrees

Tower 1 to Tower 4 distance CP: 463.95 feet
Tower 1 to Tower 4 distance as built: 463.9 feet
Error = .01 foot

1.5 degrees at 1590 kHz = 2.58 feet.

Maximum error = .052 degrees at 1590 kHz



CALLED 114.89 AC.
 STEPHEN J. CANTRELL, et ux
 TO
 GARY L. MOSS
 VOL. 1328, P. 500

R. RUTLEDGE SY. A-464
 N 59°19'05" E 615.05'

10.781 Ac.

N 30°40'55" W 763.67'
 S 59°19'09" W 615.05'

O. GAUNT ESTATE
 CALLED 52.0 ACRES

LIMESTONE Co. Rd. 326
 E

AS-BUILT LOCATION TOWER #4

AS-BUILT LOCATION TOWER #3

AS-BUILT LOCATION TOWER #2

AS-BUILT LOCATION TOWER #1

BUILDING 18'X22'

1/2" IRF
 "LETH LTD. 3879"
 KNOWN AS 30' OFFSET CM

1/2" IRF
 "LETH LTD. 3879"
 CM

1" AXLE FOUND CM

LEGEND

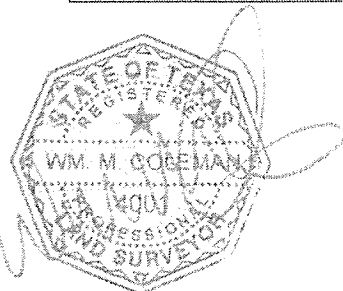
IRF..... IRON ROD FOUND
 NLS..... NAIL SET
 IRS..... 1/2" IRON ROD SET W/YELLOW
 PLASTIC CAP STAMPED "COLEMAN RPLS 4001"
 --- X --- X --- X --- BOUNDARY LINE
 --- E --- ELECTRIC LINE
 --- PROPERTY LINE

MEXIA TOWERS

AS-BUILT LOCATION EXHIBIT
 RICHARD RUTLEDGE SURVEY A-464
 CITY OF MEXIA
 LIMESTONE COUNTY, TEXAS

DRAWN: MGD JOB #: 1685
 CHECKED: WMC DATE: 03-02-12
 REVISED: SCALE: 1"=200'

TOWER #1 LOCATION:
 LAT 31°37'10.0" N
 LON 96°45'06.5" W
 ELEV. 537'
 BEARINGS SHOWN BASED ON
 TRUE NORTH BY GPS
 OBSERVATION, DISTANCES
 SHOWN ARE SURFACE
 MEASUREMENTS



Coleman & Associates
Land Surveying

P. O. BOX 686 DENTON, TEXAS 76202
 PH(940)565-8215 FAX (940)565-9800,
 WWW.COLEMANSURVEYING.COM
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READINGS BY MITCH RICE
READINGS mV/m
DISTANCE km

KLK REFERENCE READINGS

POTOMAC FIM 41 SN 497
ALL TIME CST

30.5 DEGREES

Point	Distance	Reading Day	Reading Night	Time	Date	Coordinates*	Description
1	3	34	6.2	1605	2/23/12	31 38 31.65 96 44 06.6	5851 FM 1245
2	6.38	16	2.9	1614	"	31 40 11.42 96 42 59.61	LCR 146 in road
3	12.25	7.3	1.2	952	2/24/12	31 42 53.62 96 41 08.94	LCR 936 in road
4	15.72	6.7	1.0	1002	"	31 44 30.61 96 40 02.98	FM2310 & FN73

133 DEGREES

Point	Distance	Reading Day	Reading Night	Time	Date	Coordinates*	Description
1	4.49	47	8.4	1432	2/23/12	31 35 32.46 96 43 0.8	LCR358 in road
2	5.45	33.5	5.9	1424	"	31 35 11.95 96 42 33.98	LCR 354 in road
3	13.32	11	1.9	1251	"	31 32 17.2 96 38 56	LCR 616 in road
4	14.67	9.5	1.5	1242	"	31 31 47.6 96 38 18.8	220 LCR 632

211.5 DEGREES

Point	Distance	Reading Day	Reading Night	Time	Date	Coordinates*	Description
1	1.99	49	9	1045	2/23/12	31 -36-19.22 96 45 46.66	Fm 339 in road
2	4.6	30	5.6	1055	"	31 35 05.6 96 46 .37.18	FM 342
3	8.94	16.8	3.1	1110	"	31 33 05 96 47 59	Hwy 164
4	10.87	13	2.4	1129	"	31 32 10.4 96 48 41	S County Lne Rd

324 DEGREES

Point	Distance	Reading Day	Reading Night	Time	Date	Coordinates*	Description
1	3.00	18.5	2.8	926	2/24/12	31 38 33.12 96 47 12.74	LCR 326 side of road
2	6.12	6.4	1	1022	"	31 39 52.18 96 47 21.4	LCR 137 in road
3	8.56	4.5	0.72	1031	"	31 40 54.59 96 48.18.02	LCR 140 in road
4	11.98	3.5	0.58	1043	"	31 42 24.6 96 49 34.43	LCR 134 in road

READINGS BY MITCH RICE
READINGS mV/m
DISTANCE km
84 DEGREES

KLK REFERENCE READINGS

POTOMAC FIM 41 SN 497
ALL TIME CST

Point	Distance	Reading Day	Reading Night	Time	Date	Coordinates*	Description
1	2.67	260	44.5	1451	2/23/12	31 37 20 96 43 26.9	LCR 324 in road
2	6.15	85	14	1501	2/23/12	31 37 33.77 96 41 10.55	LCR 356 in road
3	9.89	36	10.3	1521	2/23/12	31 37 43.75 96 38 51.11	LCR 368 in road
4	15.23	25	4.5	1542	2/23/12	31 38 03.36 96 35 29.96	LCR 376 & LCR 377

267 DEGREES

Point	Distance	Reading Day	Reading Night	Time	Date	Coordinates*	Description
1	2.94	275	47	1033	2/24/12	31 37 03.12 96 46 54.63	LCR 322 in road
2	6.67	111.5	20	1019	"	31 37 02.21 96 49 19.19	LCR 310 in road
3	8.48	95	16	1004	"	31 36 56.43 96 50 26.92	Big Creek Rd.
4	11.62	65	11	944	"	31 36 53 96 52 26.45	2299 FM 939

*All readings NAD 83 Datum

KLrk Modeled Parameters at ATU from MOM

	Modeled Current At Tower	Modeled Phase At Tower	Modeled Current Corrected for ATU TCT	Modeled Phase Corrected For ATU TCT	Normalized Ratio	Normalized Phase Degrees
Tower 1	5.327	6.1	5.26	6.67	1	0
Tower 2	2.6375	58.9	2.67	58.7	0.508	+52
Tower 3	2.456	5.1	2.46	6.34	0.468	-0.3
Tower 4	3.575	6.5	3.54	7.17	0.673	+5