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May 28, 2019

Accepted / Filed

Via Hand Delivery

Marlene H. Dortch, Secretary  
Federal Communications Commission  
Office of the Secretary  
445 12<sup>th</sup> Street, SW  
Room TW-A325  
Washington, DC 20554

MAY 29 2019

Federal Communications Commission  
Office of the Secretary

Re: Notification of Completion of Post-Installation AM Study  
File No. 0000072191  
WORD OF LIFE MINISTRIES, INC.  
KADO-CD (Facility ID No. 38497), Shreveport, LA


Dear Ms. Dortch:

Word of Life Ministries, Inc. (WOLM) filed an application for a License to Cover a Construction Permit for KADO-CD on April 26, 2019. This application was granted by the Federal Communications Commission on May 1, 2019. In its application, WOLM notified the Commission that a post-installation AM study included as a Special Operating Condition of its Construction Permit was still in process. This study has now been completed, and a copy of the corresponding AM Protection Report is enclosed.

Thank you.

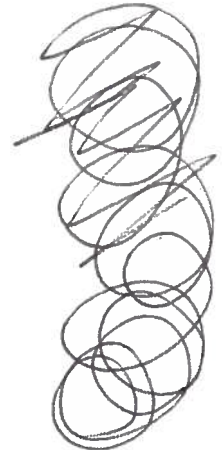
Respectfully submitted,

**WORD OF LIFE MINISTRIES, INC.**

By:   
A. Wray Fitch, III  
Its Counsel

Encl: As stated

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**Lawrence Behr  
Associates** INC  
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## AM Protection Report

**SITE NAME:**

Shreveport Site 90372

**RADIO STATION:**

KRMD

**LOCATION:**

Shreveport, Louisiana

**COMPANY:**

American Tower Corporation

May 7, 2019

## NOTICE

This work is based upon our best interpretation of available information. However, these data and their interpretation are constantly changing. Therefore, we do not warrant that any undertaking based on this report will be successful, or that others will not require further research or actions in support of this proposal or future undertaking. In the event of errors, our liability is strictly limited to replacement of this document with a corrected one. Liability for consequential damages is specifically disclaimed. Any use of this document constitutes an agreement to hold Lawrence Behr Associates, Inc. and its employees harmless and indemnify it for any and all liability, claims, demands, litigation expenses and attorney's fees arising out of such use.

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# **AM PROTECTION REPORT:** **KRMD & Shreveport Site 90372**

*American Tower Corporation  
Shreveport, Louisiana*

## **INTRODUCTION**

This report summarizes the methodology used and the results obtained in a study of the American Tower Corporation Shreveport Site 90372 at the KRMD frequency, 1340 kHz. These procedures were undertaken to determine whether the reradiated field from the Word of Life Ministries installation on the existing tower has any adverse effect on the KRMD nondirectional antenna radiation pattern that would cause the pattern to exceed its licensed limits.

## **SITE AND FACILITY CONSIDERATIONS**

The American Tower Corporation site is located at 1903 Park Avenue in Shreveport, Louisiana. The site coordinates are given as North Latitude 32° 29' 35.52", West Longitude 93° 45' 53.34". The support structure is an existing tower having a height of 93 meters above ground level. The tower contains detuning equipment to protect KRMD. The addition of the Word of Life Ministries antennas and lines did not increase the height of the structure.

In order to comply with Federal Communications Commission (FCC) procedures, all AM stations were determined within the study distance specified in §1.30002. The only station so identified is KRMD at 1340 kHz. KRMD operates unlimited time with a power of 400 watts employing a single tower nondirectional antenna system. Appendix 1.0 shows the location of station KRMD with regard to the American Tower Corporation host tower.

## **METHODOLOGY**

LBA evaluated the impact of the Word of Life Ministries installation on the existing tower. It was our expectation that the installation would not create a significant change in the amount of reradiation and, therefore, would not have an adverse effect on the KRMD radiation pattern. Field measurements on the station's nondirectional antenna pattern were planned to document actual conditions and confirm the theoretical study. LBA notified KRMD regarding the AM protection project and coordinated the field schedule with them.

## **RESULTS OF FIELD MEASUREMENTS**

Pattern measurements were made on the KRMD nondirectional antenna system before and after the installation of the Word of Life Ministries antennas and lines on the existing tower. LBA Field Technician Tina Smith, who has extensive experience in making field strength



measurements, made these measurements utilizing a recently calibrated Potomac Instruments FIM-4100 field strength meter, serial number 224.

Appendices 2.1 through 2.4 contain analysis of the KRMD field intensity measurements. The measurements were analyzed by obtaining the logarithm of the ratio of the after measurement to the before measurement at each location and then the arithmetic mean was determined for each radial. The anti-logarithmic function of this value yields the average ratio for each radial.

Appendix 3.0 is a summary of the average ratios for the radials showing a mean of 0.9309.

## CONCLUSION

The objective of the measurement program was to assess the impact of the reradiated field of the Word of Life Ministries installation on KRMD's ability to maintain its nondirectional antenna pattern. The pre- and post-installation field intensity measurements on KRMD demonstrate that this installation has no measurable effects on KRMD's nondirectional antenna pattern that would make the pattern exceed the licensed limits.

It is our opinion that the Word of Life Ministries installation on the existing tower is not a significant factor in the ability of KRMD to properly maintain its nondirectional antenna system.

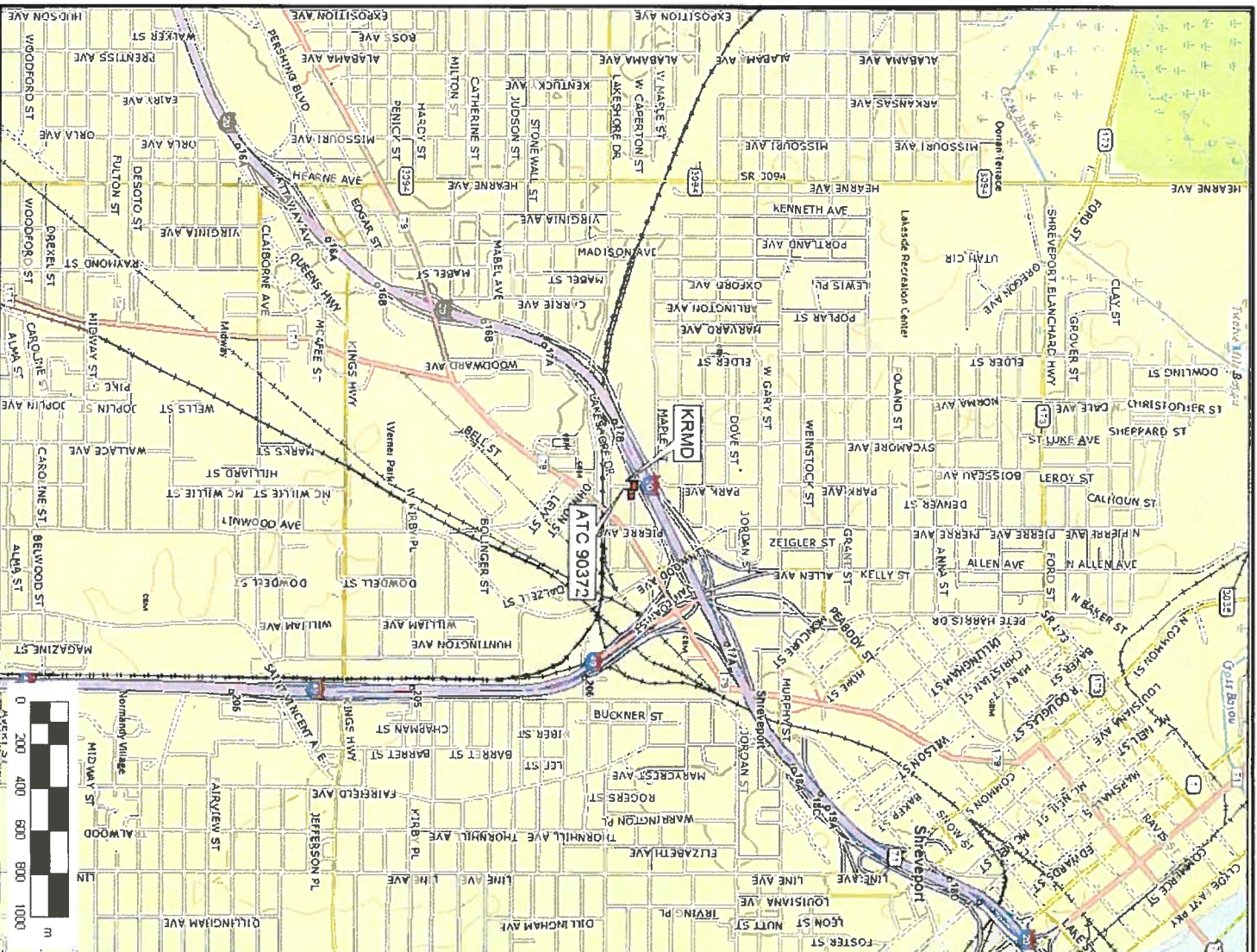
May 7, 2019



Kathryn G. Tesh  
Senior Consultant

# APPENDIX 1.0 Site Area Map

American Tower Corporation  
Shreveport, Louisiana



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## APPENDIX 2.1

### Analysis of KRMD Field Intensity Data

*American Tower Corporation  
Shreveport, Louisiana*

**AM Station KRMD - 1340 kHz ND**

**Radial 0.0 Degrees True**

Point No	Dist. (km)	Pre		Post		Field (mV/m)		Log Ratio Post/Pre
		Date	Time	Date	Time	Pre	Post	
1	1.30	01/24/19	1143	5/6/19	1458	23.90	23.10	-0.0148
2	2.00	01/24/19	1129	5/6/19	1514	11.20	8.15	-0.1381
Log Average: Average Ratio:								-0.0764 0.8386



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## APPENDIX 2.2

### Analysis of KRMD Field Intensity Data

*American Tower Corporation  
Shreveport, Louisiana*

<b>AM Station KRMD - 1340 kHz ND</b>
<b>Radial 90.0 Degrees True</b>

Point No	Dist. (km)	Pre		Post		Field (mV/m)		Log Ratio Post/Pre
		Date	Time	Date	Time	Pre	Post	
1	0.27	01/24/19	1238	5/6/19	1354	200.00	192.00	-0.0177
2	0.63	01/24/19	1246	5/6/19	1402	93.90	88.90	-0.0238
3	0.96	01/24/19	1250	5/6/19	1406	54.80	52.60	-0.0178
Log Average: Average Ratio:								-0.0198 0.9555



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## APPENDIX 2.3

### Analysis of KRMD Field Intensity Data

*American Tower Corporation  
Shreveport, Louisiana*

**AM Station KRMD - 1340 kHz ND**

**Radial 180.0 Degrees True**

Point No	Dist. (km)	Pre		Post		Field (mV/m)		Log Ratio Post/Pre
		Date	Time	Date	Time	Pre	Post	
1	0.77	01/24/19	1229	5/6/19	1415	52.10	50.10	-0.0170
2	1.28	01/24/19	1223	5/6/19	1422	44.40	43.10	-0.0129
3	1.70	01/24/19	1219	5/6/19	1430	24.40	23.40	-0.0182
Log Average:								-0.0160
Average Ratio:								0.9638

## APPENDIX 2.4

### Analysis of KRMD Field Intensity Data

*American Tower Corporation  
Shreveport, Louisiana*

**AM Station KRMD - 1340 kHz ND**

**Radial 270.0 Degrees True**

Point No	Dist. (km)	Pre		Post		Field (mV/m)		Log Ratio Post/Pre
		Date	Time	Date	Time	Pre	Post	
1	0.77	01/24/19	1154	5/6/19	1440	87.60	84.70	-0.0146
2	1.28	01/24/19	1159	5/6/19	1445	66.20	63.80	-0.0160
3	1.80	01/24/19	1202	5/6/19	1448	46.70	45.10	-0.0151
Log Average:								-0.0153
Average Ratio:								0.9655

## APPENDIX 3.0

### Summary of KRMD Analysis

*American Tower Corporation  
Shreveport, Louisiana*

Azimuth	Ratio
0.0°	0.8386
90.0°	0.9555
180.0°	0.9638
270.0°	0.9655
Mean	0.9309