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**MBC GRAND CORPORATION**

**APPLICANT FOR A**

**MINOR MODIFICATION OF LICENSE BXLH-20120402ABQ FOR**

**KMOZ-FM, CHANNEL 222**

**Grand Junction, Colorado**

**FCC FAC ID 39464**

**MINOR MODIFICATION TO A LICENSE TO INCREASE POWER**

**FCC FORM 301 EXHIBIT 27**

**May 03, 2014**

**MBC GRAND BROADCASTING COMPANY, INCORPORATED**  
**MINOR MODIFICATION OF LICENSE BXLH-20120402ADD FOR KMOZ-FM**

**Grand Junction, Colorado**

**FCC FAC ID 39464**

**FCC FORM 301 - ENGINEERING EXHIBIT 27**

**AUXILLARY FACILITY COVERAGE, INTERFERENCE, USE OF DIRECTIONAL ANTENNA, AND WAIVER OF 73.316(b)(2) and 73.316(c)(2)(viii), IF NEEDED**

The instant application is submitted for a new Construction Permit for THE licensed auxiliary facility for KMOZ-FM. The instant auxiliary proposal specifies an increase of ERP only. No change in licensed, installed, and operating directional antenna system is requested. **The directional antenna is NOT utilized to protect any other facility as discussed in 73.316(b)(2).**

In addition, because the antenna orientation and directivity is not required for the protection of any other facility, we request a waiver, if needed, to eliminate three normal Construction Permit Special Conditions to (1) require a new complete proof of performance on the constructed antenna, (2) provide an affidavit by a Licensed Surveyor to confirm the antenna orientation, (73.316(c)(2)(viii)), and (3) not require an engineer's affidavit that the antenna was installed correctly. As shown by Figure 1a herein, that shows (1) the instant licensed and proposed auxiliary facility 60 dBu contours are both wholly contained within the main station 60 dBu contour. Thus there is no need to have to bear the expense to confirm these conditions again since proving the protection of other stations moot. The applicant will continue to utilize the antenna and its measured pattern and surveyor's Certification of the antenna system that was supplied with the previous application for covering License, BXLH-20120402ABQ.

SIGNAL TM: KMOZ\_FM\_Aux\_Mod.map

**Sites**

Site: KMOZ\_FM\_aux\_lic  
N39°04'00.00" W108°44'41.00" 2155.0 m  
KMOZaux1 Tx.Ht.AGL: 22.0 m Total ERPd: 0.61dBkW  
Grp: 1 directional-horizontal/0.0° 92.3000 MHz

Site: KMOZ\_FM\_AUX\_pwr\_inc  
N39°04'00.00" W108°44'41.00" 2155.0 m  
KMOZ\_AUX Tx.Ht.AGL: 22.0 m Total ERPd: 3.70dBkW  
Grp: 1 directional-horizontal/0.0° 92.3000 MHz

Site: KMOZ\_FM\_freq\_chg  
N39°04'00.00" W108°44'41.00" 2155.0 m  
KMOZ\_FM Tx.Ht.AGL: 58.0 m Total ERPd: 20.00dBkW  
Grp: 1 omni-horizontal/0.0° 92.3000 MHz

**quick contours**

Interference contour study

Propagation methods:  
service contour : FCC-FCC 50.0%

**= 60.0 dBuV/m service contour**

**Notes**

Plot of KMOZ-FM Licensed Aux (Small Black) and KMOZ-FM Main (Large Black) and the KMOZ proposed AUX (RED) 60 dBu contours showing that the proposed amended auxiliary facility coverage lies totally within the main station 60 dBu coverage.

prepared by  
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KILOMETERS



**MODIFIED COVERAGE MAP**

KMOZ-FM AUX

Figure 1A

5/3/2014

