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MBC GRAND BROADCASTING, Inc.

GRAND JUNCTION, CO

COVERING LICENSE APPLICATION FOR KSTR

MONTROSE AUXILIARY FACILITY

FCC Facility ID #21629

**FCC FILE Nos. BXPB-20140506AAR
BXLH-20111121AAD**

EXHIBIT 26 – ENGINEER’S REPORT AND AFFIDAVIT

I certify that the authorized Scala CA-5/CP/RM single bay was installed as required by the manufacturer’s instructions. The single piece antenna mounts with just 2 connections to a tower leg; the antenna has no extra parasitic elements; and was aligned by survey as required by Condition 5. The actual measured field value obtained from the composite radiation azimuth power from the Shively Laboratories Study S.O., Figure 1E and dated December 8th, 2011 at critical azimuth 76 degrees True after the clockwise rotation of 5 degrees as discussed below was 0.380 verses an allowed field at 76 degrees (by interpolation) from the Construction Permit application Tech Box was 0.449. Transmission line type and length was confirmed by inspection. My Qualifications are a matter of Record with the FCC Media Bureau staff.

The original pattern measurements conducted by Shively Laboratories on December 8th, 2011 are included herein. Under the previously filed data for the directional antenna azimuth pattern from the BXPB-2010926AJP CP application tech

box, the allowed pattern values at 75 and 85 degrees (includes rotation) were 0.528 and 0.718 respectively.

Thus the allowable pattern field at 76 degrees True was calculated to be 0.547. From the composite tabulated measured field pattern from the Shively Report, Figure 1E, was 0.438 which is less than the 0.547 allowed.

Using the same method as above and after a clockwise rotation of 5 degrees, and utilizing the data in the Tech Box of CP application BXPB-20140506AAR, the allowable radiation at 76 degrees True was calculated to be 0.449. This was derived from the 80 degree value of 0.528 and the 70 degree value of 0.329. Again referring to the Shively report, Figure 1E, the allowable field at 70 degrees was and at 80 degrees was 0.369 and 0.592. Since the pattern rotated 5 degrees clockwise, you use the measured value at 71 degrees from the original data (with interpretation) which was calculated to be 0.380. Again 0.380 is below the 0.449 allowed.

Finally, the remainder of the pattern is wholly contained well within the full power 60 dBu service contour of the main station.

Thus the previously installed and tested antenna resulting 60 dBu contour, as rotated, conforms with the limits of the field pattern allowed under BXPB-20140506AAR.



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