GREG BEST CONSULTING, INC.

16100 Outlook Avenue Stilwell, KS 66085 816-792-2913

December 21, 2020

SUPPLEMENTAL ENGINEERING EXHIBIT FOR KNMD POWER LEVEL JUSTIFICATION

KNMD seeks to increase its ERP to expand its coverage.

KNMD is located at the Sandia Peak, NM communications site which has an elevation of 10633 ft (3241 meters). As such, the corresponding HAAT is 1274 meters as noted in the current FCC record for the existing licensed facility for KNMD. Because of the substantial HAAT, according to FCC rule 73.622 (f) (7) (iii), the ERP for KNMD would normally have a maximum limit of: 62.34-17.08 * log(HAAT) = 9.3 dBk (8.52 kW).

However, KNMD seeks to advance its ERP to more closely match the "largest station in the market" provision of FCC 73.622 (f) (5). The apparent largest station of the market is KASA. The area enclosed by the contour of KASA is 60444 sq km. KNMD cannot match this coverage area without substantially changing its transmission system which would place an undue financial hardship on the station. Therefore, it will increase its transmitter power as much as practical to achieve the maximum reliable ERP of 16.6 kW. The attached map shows the present KNMD contour, the KASA existing license contour, and the proposed contour associated with the KNMD ERP. The area associated with each contour is listed in the text box at the bottom of the map.

An interference analysis was executed with the above ERP and has confirmed that no objectionable interference is caused to any other authorized facility. The analysis is provided as an attachment to the application for the increase in ERP for KNMD. The licensee of KNMD is willing to accept the received interference that is identified as part of the interference analysis.

Sincerely,

Consulting Engineer

Geogra 2 Bet PE

Attachment

● Page 2 December 21, 2020

KNMD CONTOUR COMPARISON EXHIBIT

