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Surveyor's Certification

This letter is written in reference to the directional verification of the new installation of antenna "KJFT" on an existing tower known as TV Mountain #2, near Missoula, Montana for CSN International.

The existing tower was surveyed, based on a GPS and Laser Scanner survey on February 14, 2007. Control was left at the site in reference to True North (Geodetic). This control was used on March 26, 2007 to locate both the upper and lower bays of the above mentioned antenna; both bays of this antenna have been verified to be directionally aimed to a 20° azimuth according to the design plans submitted by Propagation Systems, Inc. This azimuth was located within ± 30 minutes of the 20° azimuth.

The control work for this project was completed using a Trimble 5800 GPS unit. All ties were corrected to CORS Station MSOL, using redundant Real Time Kinematic baselines. The tower was surveyed using a Leica HDS3000 Laser Scanner, and controlled by the GPS control points. The antenna aiming verification was completed using a Trimble 5603 total station using the previous GPS control points which were referenced to True North (Geodetic). Field survey data was processed using Trimble Geomatics Office Software and Land Desktop Development 2005.

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Date

