

APPLICATION FOR STATION LICENSE

MTD, INC.

KWMW (FM) RADIO STATION

CH 286C1 - 105.1 MHZ - 100 KW

MALJAMAR, NEW MEXICO

April 2016

EXHIBIT A

KWMW (FM) Transmission System Calculations:

Effective Radiated Power: 100 Kilowatt (Horizontal and Vertical)

Antenna: PSI
PSI FHR-12C
12 bay - 1.0 Wavelength Antenna
Gain: 8.26 dB / 6.699 Power Ratio

FM Combiner: -0.318 dB Insertion Loss
92.939 % Efficiency

Transmission Line: RFS HCA400-50J
-0.8094 dB
82.997 % Efficiency

Required Transmitter Power Output
To Reach Effective Radiated Power: 19.3 Kilowatts

Channel: 286C1 - 105.1 MHZ

Effective Radiated Power: 100 Kilowatts (Horizontal & Vertical)

Geographic Coordinates: North Latitude 32° 52' 49"
West Longitude 103° 41' 05"

Antenna Center of Radiation: AGL 209.0 meters
AMSL 1,496.0 meters
HAAT 233.0 meters

Antenna Structure Registration Number: 1019030