

ENGINEERING SPECIFICATIONS

	Construction Permitted: BMPEDT-20080619ACQ	Proposed Parameters
Transmitter Site		
N. Latitude (NAD 27)	39 ° 41 ' 44.7 "	39 ° 41 ' 44.7 "
W. Longitude (NAD 27)	79 ° 45 ' 44.8 "	79 ° 45 ' 44.8 "
FAA Study Number:	2010-AEA-1046-OE	2010-AEA-1046-OE
ASR Study Number:	1035128	1035128
Emission Characteristics		
Channel:	33	33
Frequency:	584 - 590 MHz	584 - 590 MHz
Antenna and Other Elevations		
Height of Site Above Mean Sea Level (AMSL)	791.3 m	791.3 m
Overall Height of Structure Above Ground (AGL)	137.2 m	137.2 m
(including all appurtenances)	158.2 m	<u>149.6 m</u>
Overall Height of Structure Above Mean Sea Level	928.5 m	928.5 m
(including all appurtenances)	949.5 m	<u>940.9 m</u>
Average Terrain	477.1 m	477.1 m
Effective Height of Antenna Above Ground	150.0 m	<u>142.5 m</u>
Effective Height of Antenna Above Average Terrain	464.0 m	<u>456.7 m</u>
Effective Height of Antenna Above Mean Sea Level	941.3 m	<u>933.8 m</u>
Antenna Parameters	H Polarization	V Polarization
Maximum Antenna Gain in Beam Maximum	16.94 dB	<u>16.54 dB</u>
Maximum Antenna Gain in Horizontal Plane	15.04 dB	<u>16.17 dB</u>
Maximum Effective Radiated Power	27.89 dBkW	<u>22.26 dBkW</u>
In Beam Maximum	615.0 kW	<u>168.3 kW</u>
Maximum Effective Radiated Power	25.99 dBkW	<u>21.89 dBkW</u>
In Horizontal Plane	397.1 kW	<u>154.6 kW</u>
Antenna Make / Model	Dielectric - TUA-C3/36H-T	<u>Dielectric - 881-24</u>