

9/10/2012

Submitted By:

Maybelle Tupua
Frequency Management Services
PO Box 3707
Seattle, WA 98124-2207
206-662-0587 Office
206-651-1453 Cell

Subject: Correspondence ID: 17835 & FCC Application #: 0009-EX-ML-2012

The filed materials are being provided in an effort to respond to the FCC inquiry on August 21st, 2012 regarding the satellite, earth station, and mobile antenna information. If additional information is required, please provide clarification regarding the nature of the information needed.

Earth Station Antenna Information:

The Ground Station for Eutelsat 7A uplink is leased and is located at Rambouillet about 50 miles west of Paris.

Mobile Antenna Information:

Active Aperture Diameter	38 cm (uniform illumination)
Beamwidth at 0° Scan ¹	3.3° x 3.5°
Operating Frequency Band	14.0 – 14.5 GHz
Peak Gain at 0° Scan ²	34.0 dBi
Maximum EIRP at 0° Scan ²	49.0 dBW
Minimum Elevation Angle	~20°
Polarization	Variable linear

Table 1. Transmit Phased Array Antenna Characteristics

¹ Increases in the scan plane approximately as $1/\cos^{1.2}(\theta)$ as a function of scan angle θ .

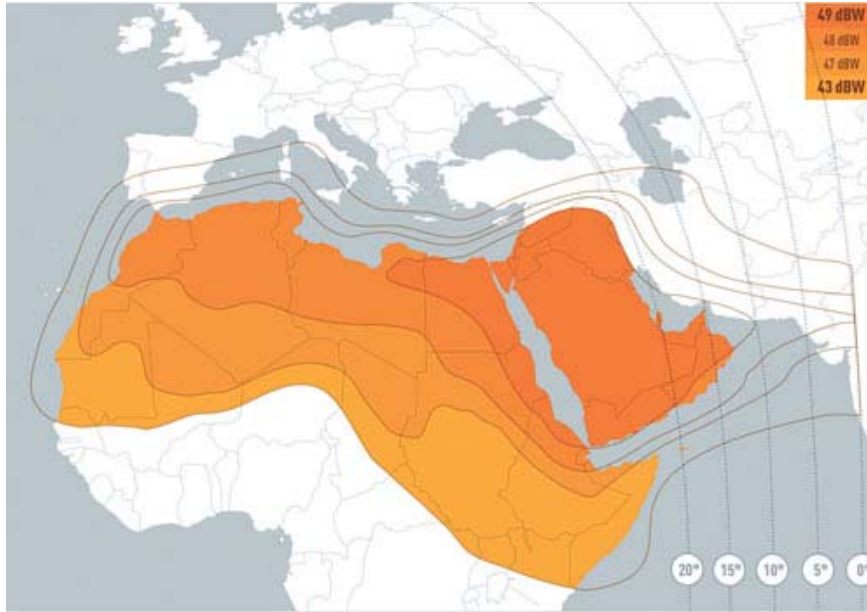
² Decreases approximately as $\cos^{1.2}(\theta)$ as a function of scan angle θ .

Satellite Antenna Information:

EUTELSAT 7 WEST A at 7° West

Downlink Coverage

Antenna Name: MENA



Antenna Name: North West Africa

