

# Special Temporary Authority Application

## Summary of the Earth Station Technical Information

Name of the Applicant: C5 Communications, LLC

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Requested By Date: November 2, 2005

STA term: 30 days

Location of Earth Stations: Gulf of Mexico

Description: This is a Special Temporary Authority Application to Operate Ku-Band TXRX Antenna on board Vessels primarily located in the Gulf of Mexico.

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### Antenna Specifications (Orbit AL-7103)

**Antenna Type:** Dual Offset Gregorian  
**Antenna Size:** 1.15 meter (45")  
**Operation Frequency:** TX 14.0-14.5 GHz  
RX 10.95-12.75 GHz  
**Antenna Polarity:** Linear (HV)  
**Antenna Gain (Typical):** TX 42.5dBi @ 14.25 GHz  
RX 41.0dBi @ 11.7 GHz  
**Cross-Pol Isolation:** 35dB

### System Specifications

**System G/T:** 18dB/K @ 11.7GHz  
**System Input Power:** 4Watts  
**System EIRP:** 47.5dBw @ 14.25 GHz  
**Power Requirements:** 90-260 VAC 50/60 Hz, 300W  
**Modem Interface:** L-Band  
**Dynamic Accuracy:** 0.1° RMS  
**Ship Motion:**  
**Roll** 30° @ 8 Sec  
**Pitch** 15° @ 6 Sec  
**Yaw** 80° @ 50 Sec  
**Turning Rate** 12°/Sec

## **General Specifications**

Maximum antenna height:	12 Meters AMSL
Satellite to be used:	SatMex5
Location:	119° E.L.
ITU designation:	Morelos 2R