

Sirius Satellite Radio, Inc.
Request for Special Temporary Authority

Attachment A

Description of Application

Sirius Satellite Radio, Inc. (“Sirius”) hereby requests special temporary authority (“STA”), to operate an Andrew 7.6 meter transmit/receive antenna based in the Ku-band during the pendency of the license application for this facility filed on July 20, 2006 (FCC Submission ID IB2006001896). This antenna complies with the antenna gain patterns specified in Section 25.209 of the Commission’s rules.

Sirius intends to use this antenna as part of its internal network, which supports Sirius’ satellite radio service operations. Specifically, Sirius proposes to operate this antenna as a hub for delivering audio programming to the terrestrial repeater network. Sirius currently relies on a third-party satellite network service provider for such functions. Due to the location of the third-party provider’s antennas, these antennas are subject to frequent outages and provide unreliable service in inclement weather. Many of these technical issues could be resolved if Sirius uses its 7.6 meter antenna, which currently operates on a receive-only basis. The proposed antenna is compliant with the Commission’s rules and is an antenna type that has been routinely licensed by the Commission.

Sirius requires this STA to begin migrating the services from the third-party provider antennas to Sirius’ own antenna as soon as possible. Sirius anticipates that the transition to the proposed antenna will take approximately six months because each of the repeater antennas must be repointed to a new point of communication. Allowing Sirius to begin the migration while the application for permanent authority is pending will reduce the risk of prolonged outages to the repeater network in the event that the third-party antennas become unavailable. Therefore, the public interest will be served by the grant of this STA because it will allow Sirius to continue providing robust satellite radio service to its customers with greater efficiency and reliability.

Sirius respectfully requests STA to operate this antenna pursuant to the following parameters:

Location of Earth Station Site:

Latitude: 41°12’45.3” N, Longitude: 74°29’38.6” W (NAD-27)

Point of Communication: ALSAT

Frequency (GHz)	Polarization	Emission	T/R mode	Max EIRP/Carrier	Max EIRP Density	Modulation/ Services
14.0-14.5	H,V	36M0G7W	Tx	84.17	44.67	Digital Data QPSK
14.0-14.5	H,V	8M0G7W	Tx	84.17	51.16	Digital Data QPSK
11.7-12.2	H,V	36M0G7W	Rx			Digital Data QPSK
11.7-12.2	H,V	8M0G7W	Rx			Digital Data QPSK

Max Gains: 58.0 dBi @ 12.00 GHz 59.4 dBi @ 14.00 GHz dBi
 Maximum total input power at antenna flange: 300 Watts
 Maximum aggregate output EIRP for all carriers: 84.17 dBW

Frequency Coordination:

Frequency	Satellite Arc		Elevation		Azimuth		Max EIRP Density toward Horizon (dBW/4kHz)
	East Limit	West Limit	East Limit	West Limit	East Limit	West Limit	
14.0-14.5	18.0 W	128.0 W	16.2	18.3	113.6	244.0	-9.5
11.7-12.2	18.0 W	128.0 W	16.2	18.3	113.6	244.0	