

**Sirius XM Radio Inc. Request for Special Temporary Authority
to Provide IOT, Performance Testing Services, and TT&C for the FM-6 Satellite
Using Vernon, New Jersey Earth Station, Call Sign E080185**

Sirius XM Radio Inc. (“Sirius XM”) herein requests a grant of Special Temporary Authority (“STA”) for 180 days, commencing 12 days after launch of the FM-6 satellite (call sign S2812), to use the S- and X-band antennas on its Vernon, New Jersey earth station (call sign E080185) to conduct in orbit testing (“IOT”) and performance testing of the FM-6 satellite at the 120.5° W.L. orbital location and to perform TT&C of the satellite at this orbital location. Sirius XM expects to launch the FM-6 satellite on August 14, 2013 and will notify the FCC of changes in this launch date that may affect the timing of the authority requested.

Sirius XM will conduct IOT, performance testing, and TT&C operations for FM-6 in the satellite’s authorized frequency bands. More specifically, the Vernon, New Jersey earth station will use the following frequencies:

7051.5 – 7052.5 MHz and 7055.5 – 7056.5 MHz (command)
2320.0 – 2332.5 MHz (service transmissions and telemetry)
7060.0 – 7072.5 MHz (uplink)

Grant of this STA will serve the public interest by ensuring the provision of continued quality satellite radio services to customers. As the Commission is aware, the FM-6 satellite, a geostationary orbit (“GSO”) satellite, will be used in conjunction with Sirius XM’s FM-5 satellite (call sign S2710) to eventually replace Sirius XM’s current non-geostationary satellite orbit (“NGSO”) constellation (call sign S2105) launched in 2000.¹ The performance testing of FM-6 at 120.5° W.L. will include a series of tests to confirm the signal quality and service availability of this GSO satellite. Also, Sirius XM will test current and future subscriber receivers.

Moreover, grant of this request will not cause harmful interference to other satellite operators. Sirius XM won exclusive satellite rights to the 2320.0 – 2332.5 MHz S-band spectrum at auction and will coordinate internally its IOT, performance testing, and TT&C operations with its other in-orbit satellites. No other satellite operators will be affected by Sirius XM’s use of these frequencies.

Similarly, grant of this request will not cause harmful interference to existing or proposed terrestrial facilities operating in the 7 GHz X-band. As shown in the attached Frequency Coordination and Interference Analysis Reports prepared by Comsearch, Sirius XM has coordinated its proposed use of its Vernon, New Jersey earth stations with all existing or proposed terrestrial facilities operating in the shared 7 GHz frequency band, including national licensees. In the extremely unlikely event that harmful interference should occur

¹ *Policy Branch Information; Actions Taken*, Public Notice, Report No. SAT-00805, DA 11-1498, File No. SAT-MOD-20110525-00099 (Sept. 2, 2011).

due to transmissions to or from its earth stations, Sirius XM will take all reasonable steps to eliminate the interference.

In light of the above, Sirius XM respectfully requests Commission approval of this STA request.