

**Sirius XM Radio Inc. Request for Extension of Special Temporary Authority
to Provide 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 an additional 180 days, commencing April 8, 2014, of the Special Temporary Authority (“STA”) previously granted to Sirius XM¹ to use the S- and X-band antennas on its Vernon, New Jersey earth station (call sign E080185) to conduct 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.

The Vernon, New Jersey earth station will use the following frequencies to conduct performance testing and TT&C:

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 2000.² The performance testing of FM-6 at 120.5° W.L. includes a series of tests to confirm the signal quality and service availability of this GSO satellite. Also, Sirius XM is testing 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 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 due to transmissions to or from its earth stations, Sirius XM will take all reasonable steps to eliminate the interference.

¹ *Satellite Communications Services Information; Actions Taken*, Public Notice, Report No. SES-01591, File No. SES-STA-20130701-00561 (Oct. 23, 2013).

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

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