



April 16, 2014

FILED ELECTRONICALLY

Marlene H. Dortch
Secretary
Federal Communications Commission
445 12th Street N.W.
Washington, D.C. 20544

Re: Erratum: Notice of *Ex Parte* Presentation – GN 12-354
Amendment of the Commission's Rules with Regard to Commercial Operations
in the 3550-3650 MHz Band

Dear Ms. Dortch:

On April 15, 2014, the Satellite Industry Association filed a “Notice of *Ex Parte* Presentation” in GN Docket No. 12-354. That filing inadvertently omitted two people from the list of FCC staff with whom the SIA representatives met. SIA is filing herewith a corrected copy of the *ex parte*, which includes the previously omitted FCC staff (John Liebovitz and Julius Knapp).

Respectfully submitted,

/s/

SATELLITE INDUSTRY ASSOCIATION

Patricia Cooper, President
1200 18th St., N.W.
Suite 1001
Washington, D.C. 20036
U.S.A.



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Re: Notice of *Ex Parte* Presentation – GN 12-354
Amendment of the Commission's Rules with Regard to Commercial Operations
in the 3550-3650 MHz Band

Dear Ms. Dortch:

On April 11 and 14, 2014, representatives of the Satellite Industry Association (“SIA”)¹ met with a number of Commission staff to discuss the satellite industry’s views on GN Docket No. 12-354, the Commission’s proposal to amend its rules to authorize the deployment of small wireless cell sites utilizing the 3550-3650 MHz band (the

¹ SIA is a U.S.-based trade association providing worldwide representation of the leading satellite operators, service providers, manufacturers, launch services providers, and ground equipment suppliers. Since its creation almost twenty years ago, SIA has advocated for the unified voice of the U.S. satellite industry on policy, regulatory, and legislative issues affecting the satellite business. For more information, visit www.sia.org.

SIA Executive Members include: The Boeing Company; The DIRECTV Group; EchoStar Corporation; Harris CapRock Communications; Intelsat S.A.; Iridium Communications Inc.; Kratos Defense & Security Solutions; LightSquared; Lockheed Martin Corporation.; Northrop Grumman Corporation; SES Americom, Inc.; and SSL. SIA Associate Members include: Artel, LLC; Astrium Services Government, Inc.; ATK Inc.; Cisco; Cobham SATCOM Land Systems; Comtech EF Data Corp.; DigitalGlobe, Inc.; DRS Technologies, Inc.; Encompass Government Solutions; Eutelsat America Corp.; Globecom Systems, Inc.; Glowlink Communications Technology, Inc.; iDirect Government Technologies; Inmarsat, Inc.; Exelis, Inc.; Marshall Communications Corporation.; MTN Government; NewSat America, Inc.; O3b Networks; Orbital Sciences Corporation; Panasonic Avionics Corporation; Raytheon Space and Airborne Systems; Row 44, Inc.; Spacecom, Ltd.; TeleCommunication Systems, Inc.; Telesat Canada; The SI Organization, Inc.; TrustComm, Inc.; Ultisat, Inc.; ViaSat, Inc., and XTAR, LLC.

“Small Cells NPRM”). The written presentation used by the SIA representatives in the meetings is included as an annex to this submission.

On April 11, 2014, the SIA representatives met with Renee Gregory, Office of Chairman Wheeler; Erin McGrath, Office of Commissioner O’Rielly; and Brendan Carr, Office of Commissioner Pai. On April 14, 2014, the SIA representatives met with Louis Peraertz, Office of Commissioner Clyburn; David Goldman, Office of Commissioner Rosenworcel; John Liebovitz, Brian Regan, and Paul Powell, Wireless Telecommunications Bureau (WTB); Robert Nelson and Chip Fleming, International Bureau; and Julius Knapp, Walter Johnston, Mark Settle, Bruce Romano, Robert Pavlak, and Michael Ha, Office of Engineering and Technology (OET). Additionally, Stephen Buenzow, Richard Arsenault, and Kamran Etemad (WTB) and Ira Keltz (OET) participated by phone.

The following SIA representatives attended the meetings: Patricia Cooper, Satellite Industry Association; Sam Black, Satellite Industry Association; Susan Crandall, Intelsat;² Abdolmajid Khalilzadeh, Intelsat; Alex Epshteyn, Intelsat;³ Scott Kotler, Lockheed Martin; Steven Doiron, EchoStar;⁴ Chris Murphy, Inmarsat; Daniel Mah, SES;⁵ Pascale Dumit, SES;⁶ and Karis Hastings, SatCom Law, LLC (representing SES).⁷

During the meetings, the SIA representatives discussed the satellite industry’s interests in the C-band (3400-4200 MHz, which includes the 3550-3650/3700 MHz frequencies under consideration in the Small Cells NPRM), and the industry’s perspectives on both the policy and technical questions raised in the record. As of 2012, satellite companies have invested roughly \$50 billion in the 169 C-band satellites currently on orbit, and are investing another \$10 billion in 35 additional C-band satellites that are currently under construction. These estimates do not include the massive investments in the C-band ground infrastructure needed to communicate with these satellites.

The SIA representatives noted with appreciation the Commission’s commitment to protect incumbent users, and observed that for the FSS, both satellite networks

² Ms. Crandall attended the April 11 meetings only.

³ Mr. Epshteyn attended the April 14 meetings only.

⁴ Mr. Doiron attended the April 11 meetings only.

⁵ Mr. Mah did not attend the meeting with Ms. Gregory.

⁶ Ms. Dumit did not attend the meeting with Ms. Gregory.

⁷ Ms. Hastings attended the April 11 meetings only.

operating in the 3600-3700 MHz band and systems in the adjacent 3700-4200 MHz band could potentially adversely be affected by small cell operations. Therefore, the SIA representatives urged the Commission to mandate appropriate separation distances between FSS earth stations and new services, ensure that they are applied to both current and future earth stations, and implement effective enforcement and security mechanisms to ensure access policies cannot be bypassed. SIA representatives also noted that there was agreement on the record that protection zones will be necessary not only for in-band interference but also for adjacent band interference effects.

The SIA representatives urged the Commission to lift the freeze on the deployment of additional FSS earth stations in the 3600-3650 MHz band, because such a freeze is inconsistent with the primary status of FSS vis-à-vis a new service that the Commission says must protect FSS operations. The SIA representatives also urged the Commission to refrain from authorizing any small cell deployments until a robust spectrum access system has been developed and tested in an operationally realistic environment, and reliable enforcement mechanisms have been established.

Finally, the SIA representatives reiterated that while all parts of the C-band are heavily used by the satellite industry, various portions of the band are utilized differently in different parts of the world. In the United States, the 3700-4200 MHz band is more heavily utilized than the 3400-3700 MHz band, whereas the entire band is heavily utilized internationally. Because of these differences, SIA stressed that any action taken by the Commission domestically in the 3550-3650 MHz band should not dictate the United States' position with respect to the entire C-band at the 2015 World Radiocommunication Conference.

A copy of this notice and attachment is being emailed to the Federal Communications Commission staff identified below. Please contact Patricia Cooper if you have any questions.

Respectfully submitted,

/s/

SATELLITE INDUSTRY ASSOCIATION



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1200 18th St., N.W.
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Attachment

cc (via email):

Renee Gregory, Office of Chairman Wheeler
Erin McGrath, Office of Commissioner O’Rielly
Brendan Carr, Office of Commissioner Pai
Louis Peraertz, Office of Commissioner Clyburn
David Goldman, Office of Commissioner Rosenworcel
Brian Regan, Wireless Telecommunications Bureau
Paul Powell, Wireless Telecommunications Bureau
Stephen Buenzow, Wireless Telecommunications Bureau
Richard Arsenault, Wireless Telecommunications Bureau
Kamran Etemad, Wireless Telecommunications Bureau
Robert Nelson, International Bureau
Chip Fleming, International Bureau
Walter Johnston, Office of Engineering and Technology
Mark Settle, Office of Engineering and Technology
Bruce Romano, Office of Engineering and Technology
Robert Pavlak, Office of Engineering and Technology
Michael Ha, Office of Engineering and Technology,
Ira Keltz, Office of Engineering and Technology