

Leann Nguyen

From: Jeanette Spriggs
Sent: Monday, May 22, 2017 2:53 PM
To: Leann Nguyen
Cc: Carlos Flores; Jeanette Spriggs
Subject: FW: Coordination for 0264-EX-CN-2017

Leann,

IB/SD has reviewed the applicant response. In our previous email, we forgot to request the applicant to obtain written consent from the licensees below:

This experimental license application proposing to use all or part of the band **17.5-17.7 GHz**, which is primarily allocated for use by Direct Broadcast Satellite (DBS) Service (Satellite broadcast) downlink. Before this application can be granted, the applicant must either provide the written consent from DirecTV, DISH Network and EchoStar to their proposed operations or notch out the frequency band **17.5-17.7 GHz** from this request.

To request this consent, please contact:

Contact: Mr. Jack Wengryniuk
Company: Direct TV/AT&T
Email: JWengryniuk@DIRECTV.com

Contact: Jaime Londono
Company: EchoStar
Email: Jaime.londono@echostar.com

Contact: Mariam Sorond
Company: DISH Network
Email: Mariam.sorond@dish.com

Thanks,
Jeanette

From: Leann Nguyen
Sent: Wednesday, May 17, 2017 8:03 AM
To: Carlos Flores <Carlos.Flores@fcc.gov>
Cc: Jeanette Spriggs <Jeanette.Spriggs@fcc.gov>; Jose Trevino <Jose.Trevino@fcc.gov>
Subject: RE: Coordination for 0264-EX-CN-2017

Hi Carlos,
Below is the applicant's response.

- Please elaborate on how this experiment would exceed the limits in RR 22.5D. RR22.5D sets the EPFD limits, produced at any point in the geostationary-satellite orbit by emissions from all earth

stations in a non-geostationary-satellite system. This experimental request does not require communication with a non-geostationary-satellite.

- The requested transmit ERP is 5W. The power from the signal source required to generate an ERP of 5 W is 0.31 mW.
- The CW signal is stepped through the frequency range. The frequency range being requested is 17.5 - 30 GHz.
- The terminal does not point below the horizon.

Thanks,
Leann Nguyen

From: Carlos Flores
Sent: Friday, May 12, 2017 11:44 AM
To: Leann Nguyen <Leann.Nguyen@fcc.gov>
Cc: Jeanette Spriggs <Jeanette.Spriggs@fcc.gov>; Jose Trevino <Jose.Trevino@fcc.gov>
Subject: RE: Coordination for 0264-EX-CN-2017

Leann,

IB has reviewed the subject request and has some comments and question for clarification.

Our worst-case analysis shows that this test terminal with an altitude of 40 feet (12.2 meters) would exceed the EPDF limit set in RR 22.5D (-162 dB(W/m²), 100% of the time in a 40-kHz referenced bandwidth.

ViaSat needs to be aware that IB is processing several NGSO applications that will operate at low earth orbit (LEO) in the uplink 27.5-30 GHz band.

In Exhibit A, last section title "RF Radiation Compliance", it states that the maximum power from the terminal will be 0.31 W ERP; however, the Form 442 indicates a 5 W ERP. Can the applicant please confirm the ERP value being request?

Is the CW signal being swept through a frequency ranges or is the signal being transmitted in incremental steps throughout a frequency range?

Please provide the frequency ranges and how the CW signal is being transmitted in this test.

Can the transmit terminal point below the horizon?

Thanks,
Carlos

From: Jeanette Spriggs
Sent: Monday, April 17, 2017 12:49 PM
To: Carlos Flores <Carlos.Flores@fcc.gov>; Sankar Persaud <Sankar.Persaud@fcc.gov>; Joseph Hill <Joseph.Hill@fcc.gov>; Stephen Duall <Stephen.Duall@fcc.gov>; Jose Trevino <Jose.Trevino@fcc.gov>
Cc: Jeanette Spriggs <Jeanette.Spriggs@fcc.gov>
Subject: FW: Coordination for 0264-EX-CN-2017

Comments are due by May 17, 2017. See attachments for your review.

Thanks,
Jeanette

From: Leann Nguyen
Sent: Monday, April 17, 2017 12:45 PM
To: Thuan Pham <Thuan.Pham@fcc.gov>; John Gabrysch <John.Gabrysch@fcc.gov>; Jeanette Spriggs <Jeanette.Spriggs@fcc.gov>
Cc: Stephen Buenzow <Stephen.Buenzow@fcc.gov>; Paul Blais <Paul.Blais@fcc.gov>; ELB-Coordination-Info <ELB-Coordination-Info@fcc.gov>
Subject: Coordination for 0264-EX-CN-2017

Gentlemen,
Please see the attachment for coordination. Please respond by COB 05/17/2017. If more time is needed, please inform me by email.

Thanks,
Leann Nguyen