

From: Robert E Scott [mailto:Bob_Scott@raytheon.com]
Sent: Friday, December 20, 2013 8:31 AM
To: Steve Pollmann
Cc: Kent Selander; Kristopher Kroc
Subject: RE: RE: Frequency Coordination of point-to-point Microwave system

Steve

If these links are truly at Spaceport (about 30 miles east of Truth or Consequences) then you are a good 80 miles north of us. There should be no issue. Even if we were in direct line of sight with each other, our links are short enough with high enough margin that there should be no issues.

By the way -- would love to tour your facility. I tried to get there from the Hatch turnoff (there is a sign on I25) but learned that the sign is misleading -- one really needs to go to TorC to get there

regards
Bob

Bob Scott
Raytheon - IDS
Senior Engineering Fellow
Chief Engineer – Civil Comms
727-366-7793 (cell)
Bob_Scott@Raytheon.com

From: Steve Pollmann <Steve.Pollmann@spacex.com>
To: Kent Selander <Kent_Selander@raytheon.com>, Robert E Scott <Bob_Scott@raytheon.com>
Cc: Kristopher Kroc <Kristopher.Kroc@spacex.com>, Kent Selander <Kent_Selander@raytheon.com>, Robert E Scott <Bob_Scott@raytheon.com>
Date: 12/20/2013 09:21 AM
Subject: RE: RE: Frequency Coordination of point-to-point Microwave system

Kent, Bob, can you confirm you are OK with this system co-operating with your system at the Space Port ?

Steve

From: John 1 Adams [<mailto:john.adams@raytheon.com>]
Sent: Friday, December 20, 2013 8:18 AM
To: Steve Pollmann
Cc: Kristopher Kroc; Kent Selander; Robert E Scott
Subject: Re: RE: Frequency Coordination of point-to-point Microwave system
Importance: High

Steve,

I do not think this would be a problem please check with Kent Selander or Bob Scott to make sure your microwave paths does not cross.

Regards,

John

-----Steve Pollmann <Steve.Pollmann@spacex.com> wrote: -----

To: "john.adams@raytheon.com" <john.adams@raytheon.com>

From: Steve Pollmann <Steve.Pollmann@spacex.com>

Date: 12/19/2013 07:56PM

Cc: Kristopher Kroc <Kristopher.Kroc@spacex.com>

Subject: RE: Frequency Coordination of point-to-point Microwave system

Hi John, I have not received a reply. Can you confirm that there is not issue with us installing this system ?

Regards

Steve

From: Steve Pollmann

Sent: Monday, December 16, 2013 5:00 PM

To: 'john.adams@raytheon.com'

Cc: Kristopher Kroc

Subject: FW: Frequency Coordination of point-to-point Microwave system

Hi John, we notices that you have a system out in NM at the spaceport.

Also we noticed that is used the Microwave freq's at 17740 – 18748 MHz from File Number 0627-EX-PL-2013 We are planning to erect a similar system at a similar location and would like to make sure we do not interfere with your system and/or to make sure your system doesn't interfere with ours. Can you look over our attachments and confirm that you are good with our system co-operating with your system ?

Regards

Steve

Attached are three documents, First is the microwave station technical information in .xls file, second is a .pdf document that describes the station technical details with a little more detail, the third document is a pdf document that is the Antenna manufacture Data sheet. The antennas are the 3 foot 18 GHz model, the Beam width of the antennas are 1.3 degree

FCC application form 422 info is here:

https://apps.fcc.gov/oetcf/els/reports/442_Print.cfm?mode=initial&application_seq=58516&license_seq=59068

Basic System parameters are below:

Station 1)

Location: Lat: 32 59 16.5 N Lon: 106 58 39.98 W

Azimuth: 127.41 degree

Elevation 4611 ft ASL

Antenna CL 30.0 ft AGL

TX: 17915 MHz, Occ BW=50MHz Emission Designator: 45M8D7W ERP = 1514 Watt

Equipment Model Number: DragonWave 18HY50EFC454v03haam

Radio: DragonWave Horizon Compact+ <http://www.dragonwaveinc.com/products/packet-microwave/horizon-compact-0>

Antenna: DW: A-ANT-18G-36-C-A – 3 foot, 18 ghz dish. (Andrew_antenna_specs PDF attached) Beamwidth = 1.3 degree, efficiency = 0.75

Modulation: HAAM adaptive modulation.

Throughput: 200 Mb/s

Station 2)

Location: Lat: 32 56 39.61 N Lon: 106 54 36.81 W

Azimuth: 307.45 degree

Elevation 4566 ft ASL

Antenna CL 30.0 ft AGL

TX: 19475 MHz, Occ BW=50MHz Emission Designator: 45M8D7W ERP = 1514 Watt

Equipment Model Number: DragonWave 18HY50EFC454v03haam

Radio: DragonWave Horizon Compact+ <http://www.dragonwaveinc.com/products/packet-microwave/horizon-compact-0>

Antenna: DW: A-ANT-18G-36-C-A – 3 foot, 18 ghz dish. (Andrew_antenna_specs PDF attached) Beamwidth = 1.3 degree, efficiency = 0.75

Modulation: HAAM adaptive modulation.

Throughput: 200 Mb/s

I would like your reply back to indicate if you see the system interfering with any of your communication systems. We plan to install the system late December or early January 2014. Please let me know if you need any additional technical details.

Best regards
Steve Pollmann

Steve Pollmann

RF - FPGA Development Manager

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