

From: HERNANDEZ, ALBINO E. (WSTF-RC111) [<mailto:albino.e.hernandez@nasa.gov>]
Sent: Tuesday, December 10, 2013 9:13 AM
To: Steve Pollmann; dzillich@newmexicopbs.org; GALBRAITH, VINCENT SCOTT (GSFC-4500); Beck, Thomas James. (WSTF-4321)[Jacobs Technology Inc]
Subject: RE: Frequency Coordination of point-to-point Microwave system

The White Sands Test Facility has no problems with your proposal.

*Albino E. Hernández, Jr.
NASA Facility Engineering Office
NASA-JSC White Sands Test Facility
Mail Code: RC, Bldg. 100
(575)524-5190*

From: Steve Pollmann
Sent: Friday, December 06, 2013 9:16 AM
To: 'dzillich@newmexicopbs.org'; 'GALBRAITH, VINCENT SCOTT (GSFC-4500)'; 'richard.j.wyman2.civ@mail.mil'; 'albino.e.hernandez@nasa.gov'; 'Thomas.Beck@nasa.gov'
Cc: Dion Harkness; Kristopher Kroc
Subject: Frequency Coordination of point-to-point Microwave system

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.

Steve Pollmann

RF - FPGA Development Manager

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