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August 7, 2019

VIA IBFS

Jose P. Albuquerque
Chief, Satellite Division, International Bureau
Federal Communications Commission
445 12th Street, SW
Washington, DC 20554

Re: **WorldVu Satellites Limited, Earth Station License Applications**
IBFS File Nos. SES-LIC-20180604-01082; SES-LIC-20180727-02075;
SES-LIC-20180727-02076; SES-LIC-20190422-00538
Call Signs E180620; E181293; E181294; E190236

Dear Mr. Albuquerque:

WorldVu Satellites Limited ("OneWeb"), by counsel, hereby submits this letter reflecting revisions made to Comsearch coordination reports submitted in the above-captioned dockets, as requested by Commission staff. The attached Comsearch coordination reports for each earth station application make explicit reference to coordination under Section 25.136(a)(4) of the Commission's rules.

Additionally, Comsearch distributed the following notice to existing and proposed terrestrial operators in the 27.5 – 28.35 GHz band:

"Pursuant to Section 101.103(d)(2)(ix) of the Commission's Rules, you are notified that the coordination reports in the above-referenced applications are being amended to clarify that, in the frequency band 27.5 – 28.35 GHz, the applicant is seeking an authorization pursuant to Section 25.136(a)(4) of the Commission's Rules. No response is required."

Kindly contact the undersigned with any questions regarding this submission.

Very truly yours,

/s/ Brian D. Weimer

Brian D. Weimer
for SHEPPARD, MULLIN, RICHTER & HAMPTON LLP

cc: Paul Blais, FCC

Ka-Band Earth Station – Talkeetna, AK

Frequency Coordination Report

28 GHz

Prepared on Behalf of
WorldVu Satellites
Limited

May 15, 2018

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A CommScope Company

Table of Contents

1. Summary of Results

On behalf of WorldVu Satellites Limited, Comsearch performed a coordination notice under Section 25.136(a)(4) of the FCC's rules for all existing and proposed terrestrial licenses within the coordination contours of their proposed Ka-Band earth station in Talkeetna, AK, which will transmit at 28 GHz[1]. Prior-notification letters were sent to the licensees and a copy of the notification data is provided in section four of this report. The earth station coordination was finalized on May 14, 2018.

No objections were received from any of the incumbent 28 GHz licensees. .

2. 28 GHz Common Carrier and LTTS Coordination

In accordance with FCC Rules and Regulations, the Ka-Band earth station in Talkeetna, AK was prior-coordinated by Comsearch. A notification letter and datasheets for this earth station were sent to the following 28 GHz common carrier fixed microwave licensees. These licensees are authorized to operate temporary fixed operations from 27.5 – 29.5 GHz on a nationwide basis or local basis.

Licensee	Authorized Geographic Area
Alascom	Alaska
Frontier Southwest Incorporated	Nationwide
The Alaska Wireless Network, LLC	Alaska

A notification letter and datasheets for the Ka-Band earth station in Talkeetna, AK were also sent to the following 28 GHz local television transmission licensee. This licensee is authorized to operate temporary fixed operations from 27.5 – 29.5 GHz on a nationwide basis.

Licensee	Authorized Geographic Area
Information Super Station, LLC	Nationwide

No objections were received from the common carrier or local television transmission service incumbents.

[1] The proposed earth station will operate in the 27.5 – 29.1, 29.5 – 30.0 GHz portion of the Ka-Band.

3. 28 GHz LMDS Coordination

A Notification letter was sent to the following 28 GHz LMDS licensees. The proposed earth station will operate on frequencies that overlap Block A of the LMDS service. The total frequency allocation for Block A of the LMDS spectrum appears below.

Block A: 27.500-28.350 GHz
29.100-29.250 GHz
31.075-31.225 GHz

Licensee	Market	Market Name
Sprint	BTA014	Anchorage, AK

4. Earth Station Coordination Data

This section presents the data pertinent to the proposed Ka-Band earth station in Talkeetna, AK. This data was circulated to all incumbent licensees in the shared 28 GHz frequency ranges.

Date:	04/06/2018
Job Number:	180406COMSGE04

Administrative Information	
Status	ENGINEER PROPOSAL
Call Sign	
Licensee Code	WORSAT
Licensee Name	WorldVu Satellites Limited

Site Information	**TALKEETNA, AK**
Venue Name	
Latitude (NAD 83)	62° 19' 59.1" N
Longitude (NAD 83)	150° 1' 52.4" W
Climate Zone	A
Rain Zone	2
Ground Elevation (AMSL)	148.0 m / 485.6 ft

Link Information	
Satellite Type	Low Earth Orbit
Mode	TR - Transmit-Receive
Modulation	Digital
Minimum Elevation Angle	10.0°
Azimuth Range	0.0° to 360°
Antenna Centerline (AGL)	2.44 m / 8.0 ft

Antenna Information		**Receive -**		**Transmit -**	
Manufacturer		CPI		CPI	
Model		3.5 meter		3.5 meter	
Gain / Diameter		54.6 dBi / 3.5 m		58.0 dBi / 3.5 m	
3-dB / 15-dB Beamwidth		0.32° / 0.36°		0.21° / 0.23°	
Max Available RF Power	(dBW/4 kHz)			-39.6	
	(dBW/MHz)			-15.6	
Maximum EIRP	(dBW/4 kHz)			18.4	
	(dBW/MHz)			42.4	
Interference Objectives:	Long Term	-152.4 dBW/MHz	20%	-151.0 dBW/4 kHz	20%
	Short Term	-142.4 dBW/MHz	0.01%	-128.0 dBW/4 kHz	0.0025%

Frequency Information	**Receive 18.0 GHz**	**Transmit 28.0 GHz**
Emission / Frequency Range (MHz)	2M16G7D - 18M0G7D / 17800.0 - 18600.0 2M16G7D - 18M0G7D / 18800.0 - 19300.0	230MG7D / 27500.0 - 29100.0 230MG7D / 29500.0 - 30000..0
Max Great Circle Coordination Distance	120.0 km / 74.6 mi	100.0 km / 62.1 mi
Precipitation Scatter Contour Radius	100.0 km / 62.1 mi	100.0 km / 62.1 mi

Coordination Values	**TALKEETNA, AK**			
Licensee Name	WorldVu Satellites Limited			
Latitude (NAD 83)	62° 19' 59.1" N			
Longitude (NAD 83)	150° 1' 52.4" W			
Ground Elevation (AMSL)	148.0 m / 485.6 ft/Antenna Centerline (AGL)		2.44 m / 8.0 ft	
Antenna Model	CPI 3.5 meter			
Interference Objectives: Long Term	-152.4 dBW/MHz	20%	-151.0 dBW/4 kHz	20%
Short Term	-142.4 dBW/MHz	0.01%	-128.0 dBW/4 kHz	0.0025%
Max Available RF Power		-39.6 (dBW/4 kHz)		

			Receive 18.0 GHz		Transmit 28.0 GHz	
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	44.18	7.00	120.00	8.76	100.00
5	0.00	40.97	7.00	120.00	8.76	100.00
10	0.00	38.07	7.00	120.00	8.76	100.00
15	0.00	35.56	7.00	120.00	8.76	100.00
20	0.00	33.53	7.00	120.00	8.76	100.00
25	0.00	32.08	7.00	120.00	8.76	100.00
30	0.00	31.29	7.00	120.00	8.76	100.00
35	0.00	31.21	7.00	120.00	8.76	100.00
40	0.00	31.84	7.00	120.00	8.76	100.00
45	0.00	33.15	7.00	120.00	8.76	100.00
50	0.00	35.05	7.00	120.00	8.76	100.00
55	0.00	37.46	7.00	120.00	8.76	100.00
60	0.00	40.27	7.00	120.00	8.76	100.00
65	0.00	43.43	7.00	120.00	8.76	100.00
70	0.00	46.84	7.00	120.00	8.76	100.00
75	0.00	50.46	7.00	120.00	8.76	100.00
80	0.00	54.24	7.00	120.00	8.76	100.00
85	0.00	58.15	7.00	120.00	8.76	100.00
90	0.00	62.16	7.00	120.00	8.76	100.00
95	0.00	66.25	7.00	120.00	8.76	100.00
100	0.00	70.41	7.00	120.00	8.76	100.00
105	0.00	74.61	7.00	120.00	8.76	100.00
110	0.00	78.84	7.00	120.00	8.76	100.00
115	0.00	83.10	7.00	120.00	8.76	100.00
120	0.00	87.37	7.00	120.00	8.76	100.00
125	0.00	91.65	7.00	120.00	8.76	100.00
130	0.00	95.93	7.00	120.00	8.76	100.00
135	0.00	100.19	7.00	120.00	8.76	100.00
140	0.00	104.43	7.00	120.00	8.76	100.00
145	0.00	108.64	7.00	120.00	8.76	100.00
150	0.00	112.80	7.00	120.00	8.76	100.00
155	0.00	116.91	7.00	120.00	8.76	100.00
160	0.00	120.94	7.00	120.00	8.76	100.00
165	0.00	124.88	7.00	120.00	8.76	100.00
170	0.00	128.69	7.00	120.00	8.76	100.00
175	0.00	132.35	7.00	120.00	8.76	100.00
180	0.00	135.82	7.00	120.00	8.76	100.00
185	0.00	139.03	7.00	120.00	8.76	100.00

Coordination Values	**TALKEETNA, AK**			
Licensee Name	WorldVu Satellites Limited			
Latitude (NAD 83)	62° 19' 59.1" N			
Longitude (NAD 83)	150° 1' 52.4" W			
Ground Elevation (AMSL)	148.0 m / 485.6 ft/Antenna Centerline (AGL)		2.44 m / 8.0 ft	
Antenna Model	CPI 3.5 meter			
Antenna Mode	Receive 18.0 GHz		Transmit 28.0 GHz	
Interference Objectives: Long Term	-152.4 dBW/MHz	20%	-151.0 dBW/4 kHz	20%
Short Term	-142.4 dBW/MHz	0.01%	-128.0 dBW/4 kHz	0.0025%
Max Available RF Power		-39.6 (dBW/4 kHz)		

			Receive 18.0 GHz		Transmit 28.0 GHz	
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	141.93	7.00	120.00	8.76	100.00
195	0.00	144.44	7.00	120.00	8.76	100.00
200	0.00	146.47	7.00	120.00	8.76	100.00
205	0.00	147.92	7.00	120.00	8.76	100.00
210	0.00	148.71	7.00	120.00	8.76	100.00
215	0.00	148.79	7.00	120.00	8.76	100.00
220	0.00	148.16	7.00	120.00	8.76	100.00
225	0.00	146.85	7.00	120.00	8.76	100.00
230	0.00	144.95	7.00	120.00	8.76	100.00
235	0.00	142.54	7.00	120.00	8.76	100.00
240	0.00	139.73	7.00	120.00	8.76	100.00
245	0.00	136.57	7.00	120.00	8.76	100.00
250	0.00	133.16	7.00	120.00	8.76	100.00
255	0.00	129.54	7.00	120.00	8.76	100.00
260	0.00	125.76	7.00	120.00	8.76	100.00
265	0.00	121.85	7.00	120.00	8.76	100.00
270	0.00	117.84	7.00	120.00	8.76	100.00
275	0.00	113.75	7.00	120.00	8.76	100.00
280	0.00	109.59	7.00	120.00	8.76	100.00
285	0.00	105.39	7.00	120.00	8.76	100.00
290	0.00	101.16	7.00	120.00	8.76	100.00
295	0.00	96.90	7.00	120.00	8.76	100.00
300	0.00	92.63	7.00	120.00	8.76	100.00
305	0.00	88.35	7.00	120.00	8.76	100.00
310	0.00	84.07	7.00	120.00	8.76	100.00
315	0.00	79.81	7.00	120.00	8.76	100.00
320	0.00	75.57	7.00	120.00	8.76	100.00
325	0.00	71.36	7.00	120.00	8.76	100.00
330	0.00	67.20	7.00	120.00	8.76	100.00
335	0.00	63.09	7.00	120.00	8.76	100.00
340	0.00	59.06	7.00	120.00	8.76	100.00
345	0.00	55.12	7.00	120.00	8.76	100.00
350	0.00	51.31	7.00	120.00	8.76	100.00
355	0.00	47.65	7.00	120.00	8.76	100.00

5. Contact Information

For questions or information regarding the 28 GHz Frequency Coordination Report, please contact:

Contact person:	Dennis Jimeno
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