

# FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for  
**Radio Vision Cristiana Subsidiary Corp**  
**MOUNT KISCO, NY**  
**Satellite Earth Station**

Prepared By:  
COMSEARCH  
19700 Janelia Farm Boulevard  
Ashburn, VA 20147  
August 23, 2018

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## 1. CONCLUSIONS

An interference study considering all existing, proposed and prior coordinated microwave facilities within the coordination contours of the proposed earth station demonstrates that this site will operate satisfactorily with the common carrier microwave environment. Further, there will be no restrictions of its operation due to interference considerations.

## **2. SUMMARY OF RESULTS**

There were no great circle interference cases identified during the interference study of the proposed earth station.

### **3. SUPPLEMENTAL SHOWING**

Pursuant to Part 25.203(c) of the FCC Rules and Regulations, the satellite earth station proposed in this application was coordinated by Comsearch using computer techniques and in accordance with Part 25 of the FCC Rules and Regulations.

Coordination data for this earth station was sent on 08/23/2018.

## **4. EARTH STATION COORDINATION DATA**

This section presents the data pertinent to frequency coordination of the proposed earth station that was circulated to all carriers within its coordination contours.

# COMSEARCH

## Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147  
(703)726-5500 <http://www.comsearch.com>

Date: 08/23/2018  
Job Number: 180823COMSTC07

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### Administrative Information

Call Sign E180105  
Licensee Code RADCS  
Licensee Name Radio Vision Cristiana Subsidiary Corp

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### Site Information

#### MOUNT KISCO, NY

Latitude (NAD 83) 41° 11' 37.0" N  
Longitude (NAD 83) 73° 44' 22.0" W  
Climate Zone A  
Rain Zone 2  
Ground Elevation (AMSL) 84.58 m / 277.5 ft

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### Link Information

Satellite Type Geostationary  
Mode RO - Receive-Only  
Modulation Digital  
Satellite Arc 58° W to 139° West Longitude  
Azimuth Range 156.8° to 253.1°  
Corresponding Elevation Angles 39.7° / 9.8°  
Antenna Centerline (AGL) 8.0 m / 26.3 ft

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### Antenna Information

#### Receive - P40371

Manufacturer PRODELIN  
Model 1374-995  
Gain / Diameter 41.7 dBi / 3.7 m  
3-dB / 15-dB Beamwidth 1.40° / 2.80°

Interference Objectives: Long Term -156.0 dBW/MHz 20%  
Short Term -146.0 dBW/MHz 0.01%

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### Frequency Information

#### Receive 4.0 GHz

Emission / Frequency Range (MHz) 36M0G7W / 3700.0 - 4200.0

Max Great Circle Coordination Distance 365.1 km / 226.8 mi  
Precipitation Scatter Contour Radius 542.4 km / 337.0 mi

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### Coordination Values

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Antenna Centerline (AGL) 8.0 m / 26.3 ft  
Antenna Mode Receive 4.0 GHz  
Interference Objectives: Long Term -156.0 dBW/MHz 20%  
Short Term -146.0 dBW/MHz 0.01%

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	1.49	106.70	-10.30	204.45
5	2.21	111.68	-10.30	188.30
10	1.41	116.57	-10.30	206.69
15	1.46	121.51	-10.30	205.36
20	2.10	125.28	-10.30	190.90
25	0.74	121.22	-10.30	233.49
30	0.77	117.79	-10.30	231.36
35	0.69	114.19	-10.30	236.14
40	0.95	110.61	-10.30	221.23
45	0.99	106.87	-10.30	219.14
50	1.19	103.09	-10.30	212.96
55	1.51	99.27	-10.30	206.31
60	1.75	95.38	-10.30	199.96
65	1.79	91.45	-10.30	198.90
70	2.00	87.50	-10.30	193.22
75	1.66	83.58	-10.30	202.43
80	1.96	79.63	-10.30	194.25
85	1.42	75.84	-10.30	206.35
90	1.81	71.92	-10.30	198.33
95	1.94	68.10	-10.30	194.64
100	1.83	64.43	-10.30	197.67
105	1.74	60.86	-10.30	200.25
110	1.64	57.42	-10.30	202.82
115	1.74	54.04	-10.30	200.10
120	2.33	50.52	-10.30	185.49
125	2.73	47.27	-9.75	178.87
130	2.37	44.82	-9.23	189.69
135	1.93	42.82	-8.43	203.65
140	1.75	41.03	-7.71	209.51
145	1.81	39.46	-7.08	210.69
150	1.67	38.58	-6.73	216.60
155	1.99	37.78	-6.41	209.01
160	1.86	37.98	-6.49	212.18
165	1.69	38.77	-6.81	215.41
170	2.33	39.17	-6.97	201.33
175	1.91	40.26	-7.40	206.42
180	1.31	41.09	-7.74	222.33
185	1.04	41.12	-7.75	230.99



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Interference Objectives: Long Term -156.0 dBW/MHz 20%  
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Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	1.36	40.11	-7.35	222.61
195	1.52	38.84	-6.83	220.38
200	1.53	37.29	-6.22	223.31
205	0.88	35.96	-5.68	251.82
210	1.06	33.55	-4.72	247.74
215	1.42	30.72	-3.59	241.99
220	1.54	27.86	-2.87	242.33
225	2.08	24.47	-2.09	230.06
230	1.93	21.45	-0.88	241.73
235	2.06	18.08	0.85	249.37
240	2.21	14.57	3.13	261.11
245	2.23	11.07	5.70	280.12
250	2.66	7.78	10.15	304.18
255	2.22	7.80	10.11	365.10
260	2.27	10.18	6.52	285.54
265	2.37	13.98	3.72	260.91
270	2.55	18.33	0.70	235.30
275	3.31	22.78	-1.41	205.56
280	4.15	27.43	-2.79	184.43
285	4.18	32.32	-4.23	176.00
290	3.71	37.31	-6.22	174.98
295	3.02	42.33	-8.23	179.95
300	2.92	47.27	-9.75	174.48
305	2.82	52.21	-10.30	174.07
310	2.14	57.22	-10.30	189.94
315	2.73	62.12	-10.30	176.20
320	2.53	67.08	-10.30	180.93
325	2.71	72.03	-10.30	176.65
330	3.75	76.96	-10.30	151.61
335	4.35	81.92	-10.30	141.37
340	3.04	86.91	-10.30	168.96
345	1.01	91.86	-10.30	218.45
350	0.85	96.80	-10.30	227.05
355	0.27	101.72	-10.30	275.07

## 5. CERTIFICATION

I HEREBY CERTIFY THAT I AM THE TECHNICALLY QUALIFIED PERSON RESPONSIBLE FOR THE PREPARATION OF THE FREQUENCY COORDINATION DATA CONTAINED IN THIS APPLICATION, THAT I AM FAMILIAR WITH PARTS 101 AND 25 OF THE FCC RULES AND REGULATIONS, THAT I HAVE EITHER PREPARED OR REVIEWED THE FREQUENCY COORDINATION DATA SUBMITTED WITH THIS APPLICATION, AND THAT IT IS COMPLETE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

A handwritten signature in cursive script that reads "Timothy O. Crutcher".

Timothy O. Crutcher  
Frequency Planner  
COMSEARCH  
19700 Janelia Farm Boulevard  
Ashburn, VA 20147

DATED: August 23, 2018