

**SATELLITE EARTH STATION AUTHORIZATIONS**  
**FCC Form 312 - Schedule B (Technical and Operational Description)**

<b>E1. Site Identifier:</b>	1
<b>E2. Contact Name:</b>	Mr. Renato Dias (United Teleports)
<b>E3. Street Address or Area of Operation:</b>	10161 Range Line Rd
<b>E4. State:</b>	Florida
<b>E5. Call Sign:</b>	
<b>E6. Phone Number:</b>	305-514-0001 (mobile), 305-671-3333 (office)
<b>E7. City:</b>	Port St. Lucie
<b>E8. Country:</b>	United States
<b>E9. Zip Code:</b>	34987
<b>E11. Latitude:</b>	27°16'56.9"N
<b>E12. Longitude:</b>	80°28'58.4"W
<b>E13. Lat/Long Coordinates are:</b>	NAD 83
<b>E14. Site Elevation (AMSL):</b>	11 m

<b>E15.</b> If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.	Yes
<b>E16.</b> If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	N/A
<b>E17.</b> Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	No
<b>E18.</b> Is frequency coordination required? If YES, attach a frequency coordination report.	No
<b>E19.</b> Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours	No
<b>E20.</b> FAA Notification - (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	N/A

ATTACHMENT 3  
 Technical & Operational Description  
 1.2 meter GD 3122 Ka-Band

**POINTS OF COMMUNICATION**

Satellite Name	
E21. Common Name:	Telstar 19 Vantage
E22. ITU Name:	IOMSAT-KA-63W-R
E23. Orbit Location:	63°W
E24. Country:	United Kingdom

**POINTS OF COMMUNICATION (Destination Points)**

E25. Site Identifier	FCC Call Sign: E160134
E26. Common Name	T19V Ka Gateway at Middletown VA
E27. Country	United States

**ANTENNA**

Site ID	E.28. Antenna ID	E29. Quantity	E30. Manufacturer	E31. Model	E32 Antenna Size (m)	E41/42. Antenna Gain Transmit or Receive (__dBi at __GHz)
1	1	1	General Dynamics	3122	1.2	45.8 dBi at 19.8 GHz
1	1	1	General Dynamics	3122	1.2	49.3 dBi at GHz 30.0 GHz

E.28. Antenna ID	E33/34. Diameter Minor/Major (m)	E35. Above Ground Level (m)	E36. Above Sea Level (m)	E37. Building Height Above Ground Level (m)	E38. Max Total Input Power at Antenna Flange (W)	E39. Maximum Antenna Height Above Rooftop (m)	E40. Total EIRP for all Carriers (dBW)
1	1.2 / 1.2	10.2	21.2	9.1	2.0	1.1	52.4

ATTACHMENT 3  
 Technical & Operational Description  
 1.2 meter GD 3122 Ka-Band

**FREQUENCY**

E28. Antenna ID	E 43/44. Frequency Band (MHz)	E45. T/R Mode	E46. Antenna Pol (H, V, L, R)	E47. Emission Designator	E48. Max EIRP per Carrier (dBW)	E49. Max EIRP Density per Carrier (dBW/4KHz)	E50. Modulation and Services
1	29500 - 30000	T	L	50K0N0X	52.4	41.4	Unmodulated CW Carrier to test T19V gateway in Middletown, VA
1	18600 - 18800	R	R	50K0N0X			Unmodulated CW Carrier to test T19V gateway in Middletown, VA
1	19700 - 20200	R	R	50K0N0X			Unmodulated CW Carrier to test T19V gateway in Middletown, VA

**FREQUENCY COORDINATION**

E28. Antenna ID	E 51. Satellite Orbit Type	E52/53. Frequency Limits (MHz)	E454/55 Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Az. Angle Eastern Limit	E57. Earth Station Elevation Angle Lower Limit	E58. Earth Station Az. Angle Western Limit	E59. Earth Station Elevation Angle Upper Limit	E60. Max EIRP Density toward the Horizon (dBW/4KHz)
1	GEO	29500 - 30000	63°W - 63°W	145.5°	52.7°	145.5°	52.7°	-22.0
1	GEO	18600 - 18800	63°W - 63°W	145.5°	52.7°	145.5°	52.7°	
1	GEO	19700 - 20200	63°W - 63°W	145.5°	52.7°	145.5°	52.7°	