



135 Routes 202/206
Bedminster, NJ 07921

February 18, 2009

George F. Wazeter
Director, Regulatory Affairs

Via Electronic Delivery

Ms. Marlene H. Dortch, Secretary
Federal Communications Commission
Office of the Secretary
445 12th St. S.W.
Washington, DC 20554

Subject: Supplemental Information Regarding Applications of Telesat Network Services, Inc. for a Modified License Authorizing Operation of an Earth Stations on Vessels (ESV) Network and for Special Temporary Authority to Commence Operations While the Modification Application is Pending¹

Dear Ms. Dortch:

Telesat Network Services hereby answers the following questions posed by the FCC's staff in connection with the above-referenced applications:

1. Does the EIRP density limit in the 13.77-13.78 GHz sub-band exceed the 71dBW/6MHz limit, contained in footnote US 357, of the U.S. Table of Frequency Allocations?

Answer: The target Satellite, Telstar 11N, is not equipped to operate in this sub-band. The transmit frequency range in the extended Ku uplink band for the LMA4 T11N hub antenna will be limited to the 13.81 – 14.00 GHz portion of the 13.75-14.00 GHz band.

2. In Block E50, there are Null entries. Provide the Modulation Information.

Answer: The carriers identified as Receive carriers correspond to the Transmitted carriers contained in the instant application for the "transmit side" of the Hub earth Station and the Remote ESVs. Attached is a table for each antenna contained in this

¹ File Nos.: SES MOD-20090206-00154 and SES-STA 20090213-00182, Call Sign KA399.

application. It shows the receive carrier and modulation information for each emission type and receive frequency band.

3. For purposes of the Application for Special Temporary Authority (STA), during the requested STA period, will the ITU Region 1 downlink frequency band 12500 – 12750 MHz be used?

Answer: The initial frequency assignment for this particular service, in ITU region 1, will use transponders, on the Telstar 11N satellite (Call Sign S2357), with the frequency range 11452 – 11506 MHz in both the Europe Beam and the Africa Beam. Accordingly, we are not requesting an STA to operate in the 12500 – 12750 MHz band.

Should the Commission require additional information, I can be reached at 908-698-4883.

Very truly yours,

George F. Wazeter

cc: Scot t Kotler, FCC

Attachments:

- A: Receive Carriers for LMA4 T11N
- B: Receive Carriers for 4003A ESV
- C: Receive Carriers for 4006 ESV

This table contains Receive carriers for the antenna LMA4 T11N

All Receive carriers in this table correspond to the carrier types transmitted from the remote ESVs

E28. Antenna ID	E43/44. Freq Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization	E47 Emission Designator	E48. Max.EIRP/ Carrier (dBW)	Max EIRP Density/Carrier (dBw/4kHz)
LMA4 T11N	10950-11200	R	V & H	1M60G7W	0.0	0.0
E50 Modulation and Services 1750 Kbps, .66FEC, QPSK						
LMA4 T11N	10950-11200	R	V & H	400KG7W	0.0	0.0
E50 Modulation and Services 350 Kbps, .533FEC, QPSK						
LMA4 T11N	10950-11200	R	V & H	470KG7W	0.0	0.0
E50 Modulation and Services 410 Kbps, .533FEC, QPSK						
LMA4 T11N	10950-11200	R	V & H	500KG7W	0.0	0.0
E50 Modulation and Services 540 Kbps, .66FEC, QPSK						
LMA4 T11N	11450 – 11700	R	V & H	1M60G7W	0.0	0.0
E50 Modulation and Services 1750 Kbps, .66FEC, QPSK						
LMA4 T11N	11450 – 11700	R	V & H	400KG7W	0.0	0.0
E50 Modulation and Services 350 Kbps, .533FEC, QPSK						
LMA4 T11N	11450 – 11700	R	V & H	470KG7W	0.0	0.0
E50 Modulation and Services 410 Kbps, .533FEC, QPSK						
LMA4 T11N	11450 – 11700	R	V & H	500KG7W	0.0	0.0
E50 Modulation and Services 540 Kbps, .66FEC, QPSK						
LMA4 T11N	11700 - 12200	R	V & H	1M60G7W	0.0	0.0
E50 Modulation and Services 1750 Kbps, .66FEC, QPSK						
LMA4 T11N	11700 - 12200	R	V & H	400KG7W	0.0	0.0
E50 Modulation and Services 350 Kbps, .533FEC, QPSK						
LMA4 T11N	11700 - 12200	R	V & H	470KG7W	0.0	0.0
E50 Modulation and Services 410 Kbps, .533FEC, QPSK						
LMA4 T11N	11700 - 12200	R	V & H	500KG7W	0.0	0.0
E50 Modulation and Services 540 Kbps, .66FEC, QPSK						

This table contains Receive carriers for the antenna 4003A ESV

All Receive carriers in this table correspond to the carrier types transmitted from the Hub Earth Station

E28. Antenna ID	E43/44. Freq Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization	E47 Emission Designator	E48. Max.EIRP/Carrier (dBW)	Max EIRP Density/Carrier (dBw/4kHz)
4003A ESV	10950 - 11200	R	V & H	1M76G7W	0.0	0.0
E50 Modulation and Services 1560 Kbps, .533FEC, QPSK						
4003A ESV	10950 - 11200	R	V & H	3M52G7W	0.0	0.0
E50 Modulation and Services 1560 Kbps, .533FEC. BPSK						
4003A ESV	10950 - 11200	R	V & H	5M77G7W	0.0	0.0
E50 Modulation and Services 2560 Kbps, .533FEC, BPSK						
4003A ESV	11450 - 11700	R	V & H	1M76G7W	0.0	0.0
E50 Modulation and Services 1560 Kbps, .533FEC, QPSK						
4003A ESV	11450 - 11700	R	V & H	3M52G7W	0.0	0.0
E50 Modulation and Services 1560 Kbps, .533FEC. BPSK						
4003A ESV	11450 - 11700	R	V & H	5M77G7W	0.0	0.0
E50 Modulation and Services 2560 Kbps, .533FEC, BPSK						
4003A ESV	11700 - 12200	R	V & H	1M76G7W	0.0	0.0
E50 Modulation and Services 1560 Kbps, .533FEC, QPSK						
4003A ESV	11700 - 12200	R	V & H	3M52G7W	0.0	0.0
E50 Modulation and Services 1560 Kbps, .533FEC. BPSK						
4003A ESV	11700 - 12200	R	V & H	5M77G7W	0.0	0.0
E50 Modulation and Services 2560 Kbps, .533FEC, BPSK						
4003A ESV	12500 - 12750	R	V & H	1M76G7W	0.0	0.0
E50 Modulation and Services 1560 Kbps, .533FEC, QPSK						
4003A ESV	12500 - 12750	R	V & H	3M52G7W	0.0	0.0
E50 Modulation and Services 1560 Kbps, .533FEC. BPSK						
4003A ESV	12500 - 12750	R	V & H	5M77G7W	0.0	0.0
E50 Modulation and Services 2560 Kbps, .533FEC, BPSK						

This table contains Receive carriers for the antenna 4006 ESV

All Receive carriers in this table correspond to the carrier types transmitted from the Hub Earth Station

E28. Antenna ID	E43/44. Freq Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization	E47 Emission Designator	E48. Max.EIRP/ Carrier (dBW)	Max EIRP Density/Carrier (dBw/4kHz)
4006 ESV	10950 - 11200	R	V & H	1M76G7W	0.0	0.0
E50 Modulation and Services 1560 Kbps, .533FEC, QPSK						
4006 ESV	10950 - 11200	R	V & H	3M52G7W	0.0	0.0
E50 Modulation and Services 1560 Kbps, .533FEC. BPSK						
4006 ESV	10950 - 11200	R	V & H	5M77G7W	0.0	0.0
E50 Modulation and Services 2560 Kbps, .533FEC, BPSK						
4006 ESV	11450 - 11700	R	V & H	1M76G7W	0.0	0.0
E50 Modulation and Services 1560 Kbps, .533FEC, QPSK						
4006 ESV	11450 - 11700	R	V & H	3M52G7W	0.0	0.0
E50 Modulation and Services 1560 Kbps, .533FEC. BPSK						
4006 ESV	11450 - 11700	R	V & H	5M77G7W	0.0	0.0
E50 Modulation and Services 2560 Kbps, .533FEC, BPSK						
4006 ESV	11700 - 12200	R	V & H	1M76G7W	0.0	0.0
E50 Modulation and Services 1560 Kbps, .533FEC, QPSK						
4006 ESV	11700 - 12200	R	V & H	3M52G7W	0.0	0.0
E50 Modulation and Services 1560 Kbps, .533FEC. BPSK						
4006 ESV	11700 - 12200	R	V & H	5M77G7W	0.0	0.0
E50 Modulation and Services 2560 Kbps, .533FEC, BPSK						
4006 ESV	12500 - 12750	R	V & H	1M76G7W	0.0	0.0
E50 Modulation and Services 1560 Kbps, .533FEC, QPSK						
4006 ESV	12500 - 12750	R	V & H	3M52G7W	0.0	0.0
E50 Modulation and Services 1560 Kbps, .533FEC. BPSK						
4006 ESV	12500 - 12750	R	V & H	5M77G7W	0.0	0.0
E50 Modulation and Services 2560 Kbps, .533FEC, BPSK						