

**S1. GENERAL INFORMATION** Complete for all satellite applications.

a. Space Station or Satellite Network Name: INMARSAT 3F4		e. Estimated Date of Placement into Service: 1/7/2009		i. Will the space station(s) operate on a Common Carrier Basis: N	
b. Construction Commencement Date:		f. Estimated Lifetime of Satellite(s): 12 Years		j. Number of transponders offered on a common carrier basis: 0	
c. Construction Completion Date:		g. Total Number of Transponders: 4		k. Total Common Carrier Transponder Bandwidth: 0 MHz	
d1. Est Launch Date Begin:	d2. Est Launch Date End:	h. Total Transponder Bandwidth (no. transponders x Bandwidth) 68 MHz		i. Orbit Type: Mark all boxes that apply: <input checked="" type="checkbox"/> GSO <input type="checkbox"/> NGSO	

**S2. OPERATING FREQUENCY BANDS** Identify the frequency range and transmit/receive mode for all frequency bands in which this station will oper  
Also indicate the nature of service(s) for each frequency band.

Frequency Band Limits				e. T/R Mode	f. Nature of Service(s): List all that apply to this band
Lower Frequency (.Hz)		Upper Frequency (.Hz)			
a. Numeric	b. Unit (K/M/G)	c. Numeric	d. Unit (K/M/G)		
1525	M	1559	M	T	Mobile-Satellite Service
1626.5	M	1660.5	M	R	Mobile-Satellite Service
6425	M	6454	M	R	Feeder Link for Mobile Satellite Service in FSS
3600	M	3629	M	T	Feeder Link for Mobile Satellite Service in FSS
6338	M	6342	M	R	Fixed Satellite Service
3945	M	3955	M	T	Fixed Satellite Service
6454.4	M	6456.6	M	R	Fixed Satellite Service
3629.4	M	3631.6	M	T	Fixed Satellite Service
1574.4	M	1576.6	M	T	Radio Navigation Satellite Service

**S3. ORBITAL INFORMATION FOR GEOSTATIONARY SATELLITES ONLY:**

a. Nominal Orbital Longitude (Degrees E/W): 54 W		b. Alternate Orbital Longitude (Degrees E/W):		c. Reason for orbital location selection: Inmarsat is authorized by the United Kingdom to operate the Inmarsat-3 F4 satellite at 54 W.L.
Longitudinal Tolerance or E/W Station-Keeping:		f. Inclination Excursion or N/S Station-Keeping Tolerance:		
d. Toward West: 0.1 Degrees	e. Toward East: 0.1 Degrees	2.7 Degrees		
i. Reason for service are selection (Optional):				
		Range of orbital are in which adequate service can be provided (Optional): g. Westernmost: _____ Degrees _____ E/W _____ h. Easternmost: _____		

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Page 2: NGSO Orbits

S4. ORBITAL INFORMATION FOR NON-GEOSTATIONARY SATELLITES ONLY

S4a. Total Number of Satellites in Network or System:

S4c. Celestial Reference Body (Earth, Sun, Moon, etc.):

S4b. Total Number of Orbital Planes in Network or System:

S4d. Orbit Epoch Date:

For each Orbital Plane Provide:

(e) Orbital Plane No.	(f) No. of Satellites in Plane	(g) Inclination Angle (degrees)	(h) Orbital Period (Seconds)	(i) Apogee (km)	(j) Perigee (km)	(k) Right Ascension of the Ascending Node (Deg.)	(l) Argument of Perigee (Degrees)	Active Service Arc Range (Degrees)		
								(m) Begin Angle	(n) End Angle	(o) Other

S5. INITIAL SATELLITE PHASE ANGLE For each satellite in each orbital plane, provide the initial phase angle.

(a) Orbital Plane No.	(b) Satellite Number	(c) Initial Phase Angle (Degrees)

**NO NGSO DATA FILED**

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S6. SERVICE AREA CHARACTERISTICS for each service area provide:

(a) Service Area ID	(b) Type of Associated Station (Earth or Space)	(c) Service Area Diagram File Name (GXT File)	(d) Service Area Description. Provide list of geographic areas (state postal codes or ITU 3-ltr codes), satellites or Figure No. of Service Area Diagram.
GLOBAL	S		All visible areas of the Earth.
NC	S	NC_SA (54W).gxt	North central part of visible areas of the Earth
NW	S	NW_SA (54W).gxt	North west part of visible areas of the Earth
SC	S	SC_SA (54W).gxt	South central part of visible areas of the Earth
SE	S	SE_SA (54W).gxt	South east part of visible areas of the Earth
SW2	S	SW2_SA (54W).gxt	South west part of visible areas of the Earth
SW	S	SW_SA (54W).gxt	South west part of visible areas of the Earth
NE	S	NE_SA (54W).gxt	North east part of visible areas of the Earth

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S7. SPACE STATION ANTENNA BEAM CHARACTERISTICS For each antenna beam provide:

(a) Beam ID	(b) T/R Mode	Isotropic Antenna Gain		(e) Pointing Error (Degrees)	(f) Rotational Error (Degrees)	(g) Min. Cross- Polar Iso- lation (dB)	(h) Polar- ization Switch- able? (Y/N)	(i) Polarization Alignment Rel. Equatorial Plane (Degrees)	(j) Service Area ID	Transmit			Receive				
										(k) Input Losses (dB)	(l) Effective Output Power (W)	(m) Max. EIRP (dBW)	(n) System Noise Temp (k)	(o) G/T Max. Gain Pt. (db/K)	(p) Min. Saturation Flux Density (dBW/m2)	Input Attenuator (dB)	
		(q) Max. Value	(r) Step Size														
CGU	R	20.5	16.5	0.1	0.1	30	N		GLOBAL				891	-9	-172.1	24	2
CGU	R	20.5	16.5	0.1	0.1	30	N		GLOBAL				891	-9	-172.1	24	2
CGD	T	20	16.5	0.1	0.1	30	N		GLOBAL	3.3	10.5	30.5					
CGD	T	20	16.5	0.1	0.1	30	N		GLOBAL	3.3	10.5	30.5					
LRU	R	34	30	0.1	0.1		N		GLOBAL								
LRD	T	34	30	0.1	0.1		N		GLOBAL								
LGD	T	19.5	17	0.1	0.1		N		GLOBAL	4.1	159	41.5					
LGU	R	18.5	16	0.1	0.1		N		GLOBAL				562	-9	-171.3	23	2
LND1	T	19	15.5	0.1	0.1	30	N		GLOBAL	3	50	33					
LRD1	T	28.2	25.2	0.1	0.1		N		NC	3	210	51.4					
CNU	R	20.5	16.5	0.1	0.1		N		GLOBAL				1585	-11.5	-172.1	24	2
LRD2	T	28.2	25.2	0.1	0.1		N		NE	3	210	51.4					
LRD3	T	28.2	25.2	0.1	0.1		N		NW	3	210	51.4					
LRD4	T	28.2	25.2	0.1	0.1		N		SC	3	210	51.4					
LRD5	T	28.2	25.2	0.1	0.1		N		SE	3	210	51.4					
LRD6	T	28.2	25.2	0.1	0.1		N		SW2	3	210	51.4					
LRD7	T	28.2	25.2	0.1	0.1		N		SW	3	210	51.4					
LRU1	R	28.2	25.2	0.1	0.1		N		NC				740	-0.5	-171.3	24	2
LRU2	R	28.2	25.2	0.1	0.1		N		NE				740	-0.5	-171.3	24	2
LRU3	R	28.2	25.2	0.1	0.1		N		NW				740	-0.5	-171.3	24	2
LRU4	R	28.2	25.2	0.1	0.1		N		SC				740	-0.5	-171.3	24	2
LRU5	R	28.2	25.2	0.1	0.1		N		SE				740	-0.5	-171.3	24	2
LRU6	R	28.2	25.2	0.1	0.1		N		SW2				740	-0.5	-171.3	24	2
LRU7	R	28.2	25.2	0.1	0.1		N		SW				740	-0.5	-171.3	24	2

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S8. ANTENNA BEAM DIAGRAMS For each beam pattern provide the reference to the graphic image and numerical data:  
 Also provide the power flux density levels in each beam that result from the emission with the highest power flux density.

(a) Beam ID	(b) T/R Mode	(c) Co-or Cross Polar Mode ("C" or" X")	(d) GSO Ref. Orbital Longitude (Deg. E/W)	(e) NGSO Antenna Gain Contour Description (Figure/Table/ Exhibit)	(f) GSO Antenna Gain Contour Data (GXT File)	Max. Power Flux Density (dBW/M2/Hz)				
						At Angle of Arrival above horizontal (for emission with highest PFD)				
						(g) 5 Deg	(h) 10 Deg	(i) 15 Deg	(j) 20 Deg	(k) 25 Deg
CGU	R	C	-54		CGU (54W).gxt					
CGU	R	C	-54		CGU (54W).gxt					
CGD	T	C	-54		CGD (54W).gxt	-165.9	-165.7	-165.5	-165.2	-164.9
CGD	T	C	-54		CGD (54W).gxt	-165.9	-165.7	-165.5	-165.2	-164.9
LGD	T	C	-54		LGD (54W).gxt					
LGU	R	C	-54		LGU (54W).gxt					
LND1	T	C	-54		LND1 (54W).gxt					
LRD1	T	C	-54		RD1 (LRDNC_54W).g					
LRD2	T	C	-54		RD2 (LRDNE_54W).g					
LRD3	T	C	-54		RD3 (LRDNW_54W).g					
LRD4	T	C	-54		RD4 (LRDSC_54W).g					
LRD5	T	C	-54		RD5 (LRDSE_54W).g					
LRD6	T	C	-54		D6 (LRDSW2_54W).g					
LRD7	T	C	-54		RD7 (LRDSW_54W).g					
LRU1	R	C	-54		RU1 (LRUNC_54W).g					
LRU2	R	C	-54		RU2 (LRUNE_54W).g					
LRU3	R	C	-54		RU3 (LRUNW_54W).g					
LRU4	R	C	-54		RU4 (LRUSC_54W).g					
LRU5	R	C	-54		RU5 (LRUSE_54W).g					
LRU6	R	C	-54		U6 (LRUSW2_54W).g					
LRU7	R	C	-54		RU7 (LRUSW_54W).g					

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S9. SPACE STATION CHANNELS For each frequency channel provide: S10. SPACE STATION TRANSPONDERS For each transponder provide:

(a) Channel No.	(B) Assigned Bandwidth (kHz)	(c) T/R Mode	(d) Center Frequency (MHz)	(e) Polarization (H, V, L, R)	(f) TTC or Comm Channel (T or C)
CXU	29000	R	6439.5	R	C
CYU	29000	R	6439.5	L	C
CXD	29000	T	3614.5	R	C
CYD	29000	T	3614.5	L	C
LU	34000	R	1643.5	R	C
LD	34000	T	1542	R	C
C1	2200	R	6455.5	R	C
L1	2200	T	1575.5	R	C
CCU	900	R	6432.75	L	C
CCD	900	T	3607.75	R	C
C1D	2200	T	3630.5	L	C

(a) Transponder ID	(b) Transponder Gain (dB)	Receive Band		Transmit Band	
		(c) Channel No.	(d) Beam ID	(e) Channel No.	(f) Beam ID
FL5	177	CXU	CGUR	LD	LGD
FL6	177	CYU	CGUL	LD	LGD
RL5	175	LU	LGU	CXD	CGDR
RL6	175	LU	LGU	CYD	CGDL
CC1	141	CCU	CGUL	CCD	CGDR
FL11	177	CXU	CGUR	LD	LRD1
FL12	177	CYU	CGUL	LD	LRD1
FL13	177	CXU	CGUR	LD	LRD2
FL14	177	CYU	CGUL	LD	LRD2
FL15	177	CXU	CGUR	LD	LRD3
FL16	177	CYU	CGUL	LD	LRD3
FL17	177	CXU	CGUR	LD	LRD4
FL18	177	CYU	CGUL	LD	LRD4
FL19	177	CXU	CGUR	LD	LRD5
FL20	177	CYU	CGUL	LD	LRD5
FL21	177	CXU	CGUR	LD	LRD6
FL22	177	CYU	CGUL	LD	LRD6
FL23	177	CXU	CGUR	LD	LRD7
FL24	177	CYU	CGUL	LD	LRD7
RL11	165	LU	LRU1	CXD	CGDR
RL12	165	LU	LRU1	CYD	CGDL
RL13	165	LU	LRU2	CXD	CGDR
RL14	165	LU	LRU2	CYD	CGDL
RL15	165	LU	LRU3	CXD	CGDR
RL16	165	LU	LRU3	CYD	CGDL
RL17	165	LU	LRU4	CXD	CGDR
RL18	165	LU	LRU4	CYD	CGDL
RL19	165	LU	LRU5	CXD	CGDR
RL20	165	LU	LRU5	CYD	CGDL
RL21	165	LU	LRU6	CXD	CGDR

RL22	165	LU	LRU6	CYD	CGDL
RL23	165	LU	LRU7	CXD	CGDR
RL24	165	LU	LRU7	CYD	CGDL
NCL	169	C1	CGUR	L1	LND1
NCC	141	C1	CGUR	C1D	CGDL

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S11. DIGITAL MODULATION PARAMETERS For each digital emission provide:

(a) Digital Mod. ID	(b) Emission Designator	(c) Assigned Bandwidth (kHz)	(d) No. of Phases	(e) Uncoded Data Rate (kbps)	(f) FEC Error Correction Coding Rate	(g) CDMA Processing Gain (dB)	(h) Total C/N Performance Objective (dB)	(i) Single Entry C/I Objective (dB)
13	20K0G1E	20	4	12	0.5		5.1	17.3
14	100KG1X	100	4	64	0.5		5	17.2
15	10K0G1X	10	2	3	0.5		0.6	12.8
16	10K0G1W	10	4	4	0.5		5	17.2
17	10K0G1X	10	2	3	0.5		2.8	15
18	10K0G1X	10	2	3	0.5		2.8	15
19	10K0G1X	10	2	3	0.5		2.8	15
20	5K00G1D	5	2	0.3	0.5		3.5	15.7
21	2K50F1D	2.5	2	0.001	0.242		-10.9	1.3
22	20K0G1E	20	4	12	0.5		5.1	17.3
23	100KG1X	100	4	64	0.5		5	17.2
24	20K0G1X	20	4	12	0.5		4.4	16.6
25	10K0G1W	10	4	4	0.5		5	17.2
26	20K0G1X	20	2	1.5	0.5		1.7	13.9
27	20K0G1X	20	2	1.5	0.5		1.2	13.4
28	5K00G1D	5	2	0.3	0.5		3.5	15.7
29	2K50F1D	2.5	2	0.064	0.5		-3.7	8.5
30	20K0G1E	20	4	12	0.5		5.1	17.3
31	100KG1X	100	4	64	0.5		5	17.2
32	10K0G1W	10	4	4	0.5		5	17.2
33	5K00G1E	5	4	2.8	0.5		5.4	17.6
34	60K0D1W	60	16	64	0.476		7.7	19.9
35	5K00G1W	5	4	3.6	0.643		5.4	17.6
36	5K00G1D	5	2	0.3	0.5		3.5	15.7
37	2K50F1D	2.5	2	0.001	0.242		-10.9	1.3
38	20K0G1E	20	4	12	0.5		5.1	17.3
39	100KG1X	100	4	64	0.5		5	17.2
40	10K0G1W	10	4	4	0.5		5	17.2
41	5K00G1E	5	4	2.8	0.5		5.4	17.6
42	60K0D1W	60	16	64	0.476		7.7	19.9
43	5K00G1W	5	4	3.6	0.643		5.4	17.6



44	5K00G1D	5	2	0.3	0.5		3.5	15.7
45	2K50F1D	2.5	2	0.064	0.5		2.3	14.5
46	180KG3X	180	2	4.8	0.5		11	23.2
50	7K50G1D	7.5	2	10.5	0.5		5	17.2
51	5K00G1D	5	2	4.8	0.5		4.7	16.9
52	2K50G1D	2.5	2	1.2	0.5		3.2	15.4
53	45K0G7D	45	4	64	0.5		7.7	19.9
54	5K00G1W	5	2	4.8	0.5		5.4	17.6
55	7K50G1W	7.5	2	4.8	0.5		5.4	17.6
56	7K50G1E	7.5	2	2.8	0.5		5.4	17.6
57	7K50G1D	7.5	2	10.5	0.5		5	17.2
58	12K5G1D	12.5	2	8.4	0.5		2.9	15.1
59	45K0G7D	45	4	64	0.5		7.7	19.9
60	45K0G7D	45	4	64	0.5		7.7	19.9
61	17K5G1D	17.5	2	9.6	0.5		4.5	16.7
62	45K0G7D	45	4	64	0.5		7.7	19.9
63	7K50G1D	7.5	2	10.5	0.5		5	17.2
64	5K00G1D	5	2	4.8	0.5		4.7	16.9
65	2K50G1D	2.5	2	1.2	0.5		3.2	15.4
66	45K0G7D	45	4	64	0.5		7.7	19.9
67	5K00G1W	5	2	4.8	0.5		5.4	17.6
68	5K00G1W	5	2	4.8	0.5		5.4	17.6
69	7K50G1E	7.5	2	2.8	0.5		5.4	17.6
70	7K50G1D	7.5	2	10.5	0.5		5	17.2
71	12K5G1D	12.5	2	8.4	0.5		2.9	15.1
72	45K0G7D	45	4	64	0.5		7.7	19.9
73	45K0G7D	45	4	64	0.5		7.7	19.9
74	17K5G1D	17.5	2	9.6	0.5		4.5	16.7
75	45K0G7D	45	4	64	0.5		7.7	19.9
76	100KN0N	100				1	15	27.2
77	100KN0N	100				1	15	27.2
78	200KG7W	200	2	320	0.875		9	21.2
79	2M20G1D	2200	2	1023	1		-28	-15.8



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S13. TYPICAL EMISSIONS For each planned type of emission provide:

Associated Transponder ID Range (a) Start (b) End		Modulation ID		(e) Carriers per Transponder	(f) Carrier Spacing (kHz)	(g) Noise Budget Reference (Table No.)	(h) Energy Dispersal Bandwidth (kHz)	Receive Band (Assoc. Transmit Stn)			Transmit Band (This Space Station)			(o) Assoc. Stn Rec. G/T (dB/K)
		(c) Digital (Table S11)	(d) Analog (Table S12)					(i) Assoc. Stn. Max. Antenna Gain (dBi)	Assoc. Station Transmit Power (dBW)		EIRP (dBW)		(n) Max. Power Flux Density (dBW/m2/Hz)	
									(j) Min.	(k) Max.	(l) Min.	(m) Max.		
FL5	FL6	13		368	20	FLG INM-B 20		58.5	-7.9	-2.9	17.3	21.3		-4
FL5	FL6	14		112	100	FLG INM-B 100		58.5	-4.7	0.3	22.5	26.5		-4
FL5	FL6	15		2089	10	FLG INM-B 10		58.5	-15.4	-10.4	9.8	13.8		-4
FL5	FL6	16		288	10	FLG INM-M 10		58.5	-6.8	-1.8	18.4	22.4		-10
FL5	FL6	17		479	10	FLG INM-M 10		58.5	-9	-4	16.2	20.2		-10
FL5	FL6	18		135	10	FLG MINI-M 10		58.5	-3.5	1.5	21.7	25.7		-17
FL5	FL6	19		135	10	FLG M4 10 kHz		58.5	-3.5	1.5	21.7	25.7		-7
FL5	FL6	20		209	10	FLG INM-C.doc		58.5	-5.4	-0.4	19.8	23.8		-23
FL5	FL6	21		178	5	FLG INM-D.doc		58.5	-6.7	-1.7	20.5	24.5		-22.1
RL5	RL6	22		6300	20	RLG INM-B 20		21	5	12	-8.4	2.6	-165.2	33.2
RL5	RL6	23		1260	100	RLG INM-B 100		21	8	16	-1.4	8.6	-166.5	33.2
RL5	RL6	24		6300	20	RLG INM-B 20		21	4.3	13	-9.1	3.6	-164.2	33.2
RL5	RL6	25		12600	10	RLG INM-M 10		14	7	13	-13.4	-6.4	-169.4	33.2
RL5	RL6	26		6300	20	RLG INM-M 20		14	3	11	-17.4	-5.4	-167.2	33.2
RL5	RL6	27		6300	20	RLG MINI-M 20		10	3	7	-21.4	-13.4	-175.5	33.2
RL5	RL6	28		25200	5	RLG INM-C.doc		0	4	10.5	-23	-12.6	-174.7	33.2
RL5	RL6	29		25200	2.5	RLG INM-D.doc		3.5	-3	9	-30.2	-16.2	-178.3	33.2
FL11	FL24	30		6300	20	FLR INM-B 20		58.5	-8.7	-3.7	19.5	23.5		-4
FL11	FL24	31		1260	100	FLR INM-B 100		58.5	-3.7	1.3	24.5	28.5		-4
FL11	FL24	32		4898	10	FLR INM-M 10		58.5	-7.1	-2.1	21.1	25.1		-12
FL11	FL24	33		17378	5	FLR MINI-M 5 k		58.5	-4	1	15.6	19.6		-7
FL11	FL24	34		832	60	FLR M4 60 kHz		58.5	0.6	5.6	28.8	32.8		-7
FL11	FL24	35		17378	5	FLR M4 5 kHz.		58.5	-12.6	-7.6	15.6	19.6		-7
FL11	FL24	35		6166	5	FLR INM-C.doc		58.5	-8.1	-3.1	20.1	24.1		-23
FL11	FL24	37		5623	5	FLR INM-D.doc		58.5	-9.1	-4.1	20.5	24.5		-22.1
RL11	RL24	38		6300	20	RLR INM-B 20		21	-3.3	5	-10.7	1.6	-166.2	33.2
RL11	RL24	39		1260	100	RLR INM-B 100		21	-0.2	13	-3.6	13.3	-160.8	33.2
RL11	RL24	40		12600	10	RLR INM-M 10		12	0.8	9	-15.6	-3.4	-166.4	33.2
RL11	RL24	41		25200	5	RLR MINI-M 5		18	-9.5	-1	-16.9	-2.2	-165.9	33.2

RL11	RL24	42		2100	60	RLR M4 60 kHz		18	4	11	-3.4	1.4	-170.7	33.2
RL11	RL24	43		25200	5	RLR M4 5 kHz.		18	-9.5	-1	-16.9	-2.2	-165.9	33.2
RL11	RL24	44		25200	5	RLR INM-C.doc		0	1.2	10.5	-25.4	-12	-174.1	33.2
RL11	RL24	45		25200	2.5	RLR INM-D.doc		3.5	-5.7	5.5	-25	-8.8	-170.9	33.2
FL5	FL6	50		186	7.5	FLG AERO-H 7		58.5	-4.9	0.1	20.3	24.3		-13
FL5	FL6	51		112	5	FLG AERO-I 5		58.5	-2.7	2.3	22.5	26.5		-19
FL5	FL6	52		58	2.5	FLG AERO-L 2.		58.5	0.2	5.2	25.4	29.4		-26
FL5	FL6	53		68	45	FLG F77 45 kH		58.5	-3.5	1.5	24.7	25.7		-4
FL5	FL6	54		1023	5	FLG F55 5kHz.		58.5	-13.3	-8.3	12.9	15.9		-7
FL5	FL6	55		323	7.5	FLG F33 7.5 k		58.5	-7.8	-2.8	17.4	21.4		-12.5
FL11	FL24	56		2399	7.5	FLR MINI-M 7.5		58.5	-4	1	24.2	28.2		-17
FL11	FL24	57		6457	7.5	FLR AERO-H 7		58.5	-8.9	-3.9	19.9	23.9		-13
FL11	FL24	58		2042	12.5	FLR AERO-I 12		58.5	-4.2	0.8	24.9	28.9		-19
FL11	FL24	59		2291	45	FLR F77 45 kH		58.5	-3.8	1.2	24.4	28.4		-4
FL11	FL24	60		1175	45	FLR F55 45 kH		58.5	-0.9	4.1	27.3	31.3		-7
FL11	FL24	61		1778	17.5	FLR F33 17.5 k		58.5	-2.7	2.3	25.5	29.5		-12.5
FL11	FL24	62		603	45	FLR SWIFT64		58.5	2	7	30.2	34.2		-13
RL5	RL6	63		5623	7.5	RLG AERO-H 7		12	7.6	13.5	-6.5	3.5	-160.7	33.2
RL5	RL6	64		13183	5	RLG AERO-I 5		6	9.9	16	-10.2	-0.2	-162.3	33.2
RL5	RL6	65		18577	2.5	RLG AERO-L 2		0	11.8	13.5	-14.7	-9	-169	33.2
RL5	RL6	66		851	45	RLG F77 45 kH		20	10	12	1.7	7.7	-164.4	33.2
RL5	RL6	67		13490	5	RLG F55 5 kHz		17	3	8	-10.3	-1.3	-163.4	33.2
RL5	RL6	68		13490	5	RLG F33 5 kHz		11.5	8.5	13.5	-10.3	-1.3	-163.4	33.2
RL11	RL24	69		16800	7.5	RLR MINI-M 7.		10	-1.5	7	-16.9	-4.5	-166.6	33.2
RL11	RL24	70		11749	7.5	RLR AERO-H 7		12	2	7.5	-9.7	0.8	-163.4	33.2
RL11	RL24	71		10080	12.5	RLR AERO-I 12		6	6.7	7.5	-11.8	-7	-171.3	33.2
RL11	RL24	72		955	45	RLR F77 45 kH		20	3.6	12	1.2	9.6	-162.5	33.2
RL11	RL24	73		955	45	RLR F55 45 kH		17	6.6	11.6	1.2	6.2	-165.9	33.2
RL11	RL24	74		5248	17.5	RLR F33 17.5 k		11.5	3.7	9.5	-6.2	-1.4	-169.2	33.2
RL11	RL24	75		933	45	RLR SWIFT64		11.5	9.2	13.5	1.3	5.6	-166.5	33.2
FL5	FL6	76		4	100	FLG AFC.doc		58.5	-13.5	4.5	10	15		19.2
RL5	RL6	77		4	100	RLG AFC.doc		43.9	-12.9	-2.9	-9	-4		33.2
CC1	CC1	78		25	200	CtoC.doc		58.5	8.5	13.5	1.7	5.7	-173.4	33.2
NCC	NCC	79		1		Nav C-C LB (I3)		57	17	21	-0.2	3.5	-185.6	32
NCL	NCL	79		1		Nav C-L LB (I3)		57	17	21	29.5	33		-26

**FEDERAL COMMUNICATIONS COMMISSION  
SATELLITE SPACE STATION AUTHORIZATIONS  
FCC Form 312 - Schedule S: (Technical and Operational Description)**

S14. Is the space station(s) controlled and monitored remotely? If Yes, provide the location and telephone number of the TT and C control point(s): Yes

**Remote Control (TT C) Location(s):**

S14a: Street Address: Telespazio, Stazione del Fucino P.Fanti			
S14b. City: Ortucchio	S14c. County: L'Aquila	S14d. State/Country	S14e. Zip Code: 67050
S14f. Telephone Number: +39 0863 5501		S14g. Call Sign of Control Station (if appropriate):	

**FEDERAL COMMUNICATIONS COMMISSION  
SATELLITE SPACE STATION AUTHORIZATIONS  
FCC Form 312 - Schedule S: (Technical and Operational Description)**

S15. SPACECRAFT PHYSICAL CHARACTERISTICS:

S16. SPACECRAFT ELECTRICAL CHARACTERISTICS:

S17. CERTIFICATIONS:

a. Are the power flux density limits of § 25.208 met?:	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	N/A
b. Are the appropriate service area coverage requirements of § 25.143(b)(ii) and (iii), or § 25.145(c)(1) and (2) met?	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>	N/A
c. Are the frequency tolerances of § 25.202(e) and the out-of-band emission limits of § 25.202(f)(1), (2) and (3) met?	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>	N/A
<b>In addition to the information required in this Form, the space station applicant is required to provide all the information specified in Section 25.114 of the Commission's rules, 47 C.F.R § 25.114.</b>						