

S1. GENERAL INFORMATION Complete for all satellite applications.

a. Space Station or Satellite Network Name: INMARSAT 4F3		e. Estimated Date of Placement into Service: 5/1/2008		i. Will the space station(s) operate on a Common Carrier Basis: N	
b. Construction Commencement Date: 5/11/2000		f. Estimated Lifetime of Satellite(s): 12 Years		j. Number of transponders offered on a common carrier basis: 0	
c. Construction Completion Date: 2/2/2006		g. Total Number of Transponders: 1260		k. Total Common Carrier Transponder Bandwidth: 0 MHz	
d1. Est Launch Date Begin: 3/1/2008	d2. Est Launch Date End: 4/30/2008	h. Total Transponder Bandwidth (no. transponders x Bandwidth) 252 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	6575	M	R	Feeder Link for Mobile Satellite Service in FSS
3600	M	3700	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

S3. ORBITAL INFORMATION FOR GEOSTATIONARY SATELLITES ONLY:

a. Nominal Orbital Longitude (Degrees E/W): 98.25 W		b. Alternate Orbital Longitude (Degrees E/W):		c. Reason for orbital location selection: The Inmarsat 4F3 satellite will operate at 98.25°W. L. geostationary orbital location. This orbital location optimizes North and South America coverage while complementing the coverage provided by the Inmarsat 4F1 satellite at 143.5°E.L. and 4F2 at 25°E.L.	
Longitudinal Tolerance or E/W Station-Keeping:		f. Inclination Excursion or N/S Station-Keeping Tolerance: 3 Degrees	Range of orbital arc in which adequate service can be provided (Optional): <u>Degrees</u> <u>E/W</u>		
d. Toward West: 0.1 Degrees	e. Toward East: 0.1 Degrees		g. Westernmost: h. Easternmost:		
i. Reason for service are selection (Optional):					

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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.

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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 Isolation (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	22	18	0.2	0.1	30	N		GLOBAL				692	-6.4	-174.7	16	1
CGU	R	22	18	0.2	0.1	30	N		GLOBAL				692	-6.4	-174.7	16	1
CGD	T	22	18	0.2	0.1	30	N		GLOBAL	3.4	20.1	35					
CGD	T	22	18	0.2	0.1	30	N		GLOBAL	3.4	20.1	35					
LSU	R	42	39	0.2	0.1		N		GLOBAL				583	14.3	-186.8	16	2
LRU	R	34	30	0.2	0.1		N		GLOBAL				1259	3	-170.8	16	2
LSD	T	42	39	0.2	0.1		N		GLOBAL	4.1	631	70					
LRD	T	34	30	0.2	0.1		N		GLOBAL	4.1	251.2	58					
LGD	T	22	18	0.2	0.1		N		GLOBAL	4.1	125.9	43					
TCN	R	9	1.5	0.2	0.1	30	N		GLOBAL				501	-18	-177.1		
TCNL	R	9	1.5	0.2	0.1	30	N		GLOBAL				501	-18	-177.1		
CRD	T	22	18	0.2	0.1	30	N		GLOBAL	3.5	0.355	17.5					
CRD	T	22	18	0.2	0.1	30	N		GLOBAL	3.5	0.355	17.5					
LGU	R	22	18	0.2	0.1		N		GLOBAL				632	-6	-170.8	16	2
LND1	T	19	15.5	0.2	0.1	30	N		GLOBAL	4.1	20	32					
LND5	T	19	15.5	0.2	0.1	30	N		GLOBAL	4.1	12.6	30					

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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	-98.25		CGUR_98W.GXT					
CGU	R	C	-98.25		CGUL_98W.GXT					
CGD	T	C	-98.25		CGDR_98W.GXT	-165.9	-165.7	-165.5	-165.2	-164.9
CGD	T	C	-98.25		CGDL_98W.GXT	-165.9	-165.7	-165.5	-165.2	-164.9
LSU	R	C	-98.25		LSU_98W.GXT					
LRU	R	C	-98.25		LRU_98W.GXT					
LSD	T	C	-98.25		LSD_98W.GXT					
LRD	T	C	-98.25		LRD_98W.GXT					
LGD	T	C	-98.25		LGD_98W.GXT					
TCN	R	C	-98.25		TCNR_98W.GXT					
TCNL	R	C	-98.25		TCNL_98W.GXT					
CRD	T	C	-98.25		CRDR_98W.GXT	-164.9	-164.7	-164.5	-164.2	-163.9
CRD	T	C	-98.25		CRDL_98W.GXT	-164.9	-164.7	-164.5	-164.2	-163.9
LGU	R	C	-98.25		LGU_98W.GXT					
LND1	T	C	-98.25		LND1_98W.GXT					
LND5	T	C	-98.25		LND5_98W.GXT					

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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	150000	R	6500	R	C
CYU	150000	R	6500	L	C
CXD	100000	T	3650	R	C
CYD	100000	T	3650	L	C
LU	34000	R	1643.5	R	C
LD	34000	T	1542	R	C
TLCR	4000	R	6340	R	T
TLCL	4000	R	6340	L	T
TLMR	10000	T	3950	R	T
TLML	10000	T	3950	L	T
C1	4000	R	6534.52	R	C
C5	20000	R	6548.55	R	C
L1	4000	T	1575.42	R	C
L5	20000	T	1176.45	R	C
CCU	5000	R	6527.7	L	C
CCD	5000	T	3630.7	R	C

(a) Transponder ID	(b) Transponder Gain (dB)	Receive Band		Transmit Band	
		(c) Channel No.	(d) Beam ID	(e) Channel No.	(f) Beam ID
FL1	192	CXU	CGUR	LD	LSD
FL2	192	CYU	CGUL	LD	LSD
FL3	176	CXU	CGUR	LD	LRD
FL4	176	CYU	CGUL	LD	LRD
FL5	176	CXU	CGUR	LD	LGD
FL6	176	CYU	CGUL	LD	LGD
RL1	192	LU	LSU	CXD	CGDR
RL2	192	LU	LSU	CYD	CGDL
RL3	176	LU	LRU	CXD	CGDR
RL4	176	LU	LRU	CYD	CGDL
RL5	176	LU	LGU	CXD	CGDR
RL6	176	LU	LGU	CYD	CGDL
TC1		TLCR	TCNR		
TC2		TLCL	TCNL		
TM1				TLMR	CRDR
TM2				TLML	CRDL
FL7	169	C1	CGUR	L1	LND1
FL8	167	C5	CGUR	L5	LND5
CC1	136	CCU	CGUL	CCD	CGDR

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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)
C1F2	200KD7W	200	16	492	0.822		12.3	24.5
C2F2	200KD7W	200	16	464	0.775		11.4	23.6
C3F2	200KD7W	200	16	384	0.642		9.1	21.3
C1F3	50K0D7W	50	16	98	0.766		11.4	23.6
C2F3	50K0D7W	50	16	90	0.703		10.3	22.5
C3F3	50K0G7W	50	4	49.2	0.796		5.4	17.6
C1F4	12K5G7W	12.5	4	12.2	0.897		8.1	20.3
C2F4	12K5G7W	12.5	4	12.2	0.897		8.1	20.3
C3F4	12K5G7W	12.5	4	12.2	0.897		8.1	20.3
C1R3	50K0D7W	50	16	101.6	0.852		12	24.2
C2R3	50K0G7W	50	4	52.8	0.87		6.6	18.8
C3R3	25K0G7W	25	4	20	0.73		4.4	16.6
C1RT	200KD7W	200	16	492.8	0.852		12.7	24.9
C2RT	200KD7W	200	16	448	0.775		10.8	23
C3RT	200KG7W	200	4	239.6	0.83		4.8	17
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
48	4M00X2D	4000	1	1023	1		-28	-15.8
49	20M0X2D	20000	1	10230	1		-35	-22.8
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	100KNON	100			1		15	27.2
77	100KNON	100			1		15	27.2

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S12. ANALOG MODULATION PARAMETERS For each analog emission provide:

(a) Analog Mod. ID	(b) Emission Designator	(c) Assigned Bandwidth (kHz)	(d) Signal Type	(e) Channels per Carrier	Multi-channel Telephony				(j) Video Standard NTSC, PAL, etc.	(k) Video Noise- Weighting (dB)	(l) Video and SCPC/FM Modulation Index	(m) SCPC/FM Compander, Preemphasis, and Noise Weighting (dB)	(n) Total C/N Performance Objective (dB)	(o) Single Entry C/I Objective (dB)
					(f) Ave. Companded Talker Level (dBm0)	(g) Bottom Baseband Freq. (MHz)	(h) Top Baseband Freq. (MHz)	(i) RMS Modulation Index						
47	1M40F3X	1400	SCPC/FM	1			0.027			14.4	0	11	23.2	

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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)			
		(c) Digital (Table S11)	(d) Analog (Table S12)					(i) Assoc. Stn. Max. Antenna Gain (dBi)	Assoc. Station Transmit Power (dBW) (j) Min. (k) Max.		EIRP (dBW) (l) Min. (m) Max.		(n) Max. Power Flux Density (dBW/m ² /Hz)	(o) Assoc. Stn Rec. G/T (dB/K)
FL5	FL6	14		112	100	FLG INM-B 100		59.6	-5.8	-0.8	22.5	26.5		-4
FL5	FL6	15		2089	10	FLG INM-B 10		59.6	-16.5	-11.5	9.8	13.8		-4
FL5	FL6	16		288	10	FLG INM-M 10		59.6	-7.9	-2.9	18.4	22.4		-10
FL5	FL6	17		479	10	FLG INM-M 10		59.6	-10.1	-5.1	16.2	20.2		-10
FL5	FL6	18		135	10	FLG MINI-M 10		59.6	-4.6	0.4	21.7	25.7		-17
FL5	FL6	19		135	10	FLG M4 10 kHz		59.6	-4.6	0.4	21.7	25.7		-7
FL5	FL6	20		209	10	FLG INM-C.doc		59.6	-6.5	-1.5	19.8	23.8		-23
FL5	FL6	21		178	5	FLG INM-D.doc		59.6	-7.8	-2.8	20.5	24.5		-22.1
RL5	RL6	22		6300	20	RLG INM-B 20		21	5	12	-8.4	2.6	-165.2	35.6
RL5	RL6	23		1260	100	RLG INM-B 100		21	8	16	-1.4	8.6	-166.5	35.6
RL5	RL6	24		6300	20	RLG INM-B 20		21	4.3	13	-9.1	3.6	-164.2	35.6
RL5	RL6	25		12600	10	RLG INM-M 10		14	7	13	-13.4	-6.4	-169.4	35.6
RL5	RL6	26		6300	20	RLG INM-M 20		14	3	11	-17.4	-5.4	-167.2	35.6
RL5	RL6	27		6300	20	RLG MINI-M 20		10	3	7	-21.4	-13.4	-175.5	35.6
RL5	RL6	28		25200	5	RLG INM-C.doc		0	4	10.5	-23	-12.6	-174.7	35.6
RL5	RL6	29		25200	2.5	RLG INM-D.doc		3.5	-3	9	-30.2	-16.2	-178.3	35.6
FL3	FL4	30		6300	20	FLR INM-B 20		59.6	-9.8	-4.8	19.5	23.5		-4
FL3	FL4	31		1260	100	FLR INM-B 100		59.6	-4.8	0.2	24.5	28.5		-4
FL3	FL4	32		4898	10	FLR INM-M 10		59.6	-8.2	-3.2	21.1	25.1		-12
FL3	FL4	33		17378	5	FLR MINI-M 5 k		59.6	-5.1	-0.1	15.6	19.6		-7
FL3	FL4	34		832	60	FLR M4 60 kHz		59.6	0.5	4.5	28.8	32.8		-7
FL3	FL4	35		17378	5	FLR M4 5 kHz.		59.6	-13.7	-8.7	15.6	19.6		-7
FL3	FL4	35		6166	5	FLR INM-C.doc		59.6	-9.2	-4.2	20.1	24.1		-23
FL3	FL4	37		5623	5	FLR INM-D.doc		59.6	-10.2	-5.2	20.5	24.5		-22.1
RL3	RL4	38		6300	20	RLR INM-B 20		21	-3.3	5	-10.7	1.6	-166.2	35.6
RL3	RL4	39		1260	100	RLR INM-B 100		21	-0.2	13	-3.6	13.3	-160.8	35.6
RL3	RL4	40		12600	10	RLR INM-M 10		12	0.8	9	-15.6	-3.4	-166.4	35.6
RL3	RL4	41		25200	5	RLR MINI-M 5		18	-9.5	-1	-16.9	-2.2	-165.9	35.6
RL3	RL4	42		2100	60	RLR M4 60 kHz		18	4	11	-3.4	1.4	-170.7	35.6

RL3	RL4	43		25200	5	RLR M4 5 kHz.		18	-9.5	-1	-16.9	-2.2	-165.9	35.6
RL3	RL4	44		25200	5	RLR INM-C.doc		0	1.2	10.5	-25.4	-12	-174.1	35.6
RL3	RL4	45		25200	2.5	RLR INM-D.doc		3.5	-5.7	5.5	-25	-8.8	-170.9	35.6
FL1	FL2	C1F2		630	200	C1F2 LB.doc		59.6	-2.3	2.7	41.5	44.5		-9.7
FL1	FL2	C2F2		630	200	C2F2 LB.doc		59.6	-2.3	2.7	41.5	44.5		-12.5
FL1	FL2	C3F2		630	200	C3F2 LB.doc		59.6	-2.3	2.7	41.5	44.5		-16.9
FL3	FL4	C1F3		2520	50	C1F3 LB.doc		59.6	-3.6	1.4	30.2	33.2		-9.7
FL3	FL4	C2F3		2520	50	C2F3 LB.doc		59.6	-3.6	1.4	31.2	33.2		-12.5
FL3	FL4	C3F3		2520	50	C3F3 LB.doc		59.6	-3.6	1.4	30.2	33.2		-16.9
FL5	FL6	C1F4		1		C1F4 LB.doc		59.6	-5.7	0.7	27.5	31.5		-9.7
FL5	FL6	C2F4		1		C2F4 LB.doc		59.6	-5.7	0.7	27.5	31.5		-12.5
FL5	FL6	C3F4		1		C3F4 LB.doc		59.6	-5.7	0.7	27.5	31.5		-16.9
RL1	RL2	C1R3		2520	50	C1R3 LB.doc		14	4	7	-0.5	6.5	-165.8	35.6
RL1	RL2	C2R3		2520	50	C2R3 LB.doc		11	2.1	5.1	-5.4	1.6	-170.7	35.6
RL1	RL2	C3R3		5040	25	C3R3 LB.doc		8	0	3	-10.5	-3.5	-172.8	35.6
RL3	RL4	C1RT		630	200	C1RT LB.doc		14	4	7	7.5	14.5	-164.3	35.6
RL3	RL4	C2RT		630	200	C2RT LB.doc		11	2.1	5.1	3.6	9.6	-169.2	35.6
RL3	RL4	C3RT		630	200	C3RT LB.doc		8	0	3	-2	4.5	-174.3	35.6
FL5	FL6	13		368	20	FLG INM-B 20		59.6	-9	-4	17.3	21.3		-4
TC1	TC2		47	1		I4_TLC_LB_SS		59.6	5.4	29.4				-21
TM1	TM2	46		1		I4TLM_LB_SS.		54.8			0	10.5	-166.6	35.6
FL7	FL7	48		1		FLG NAV 4 MH		59.6	0.4	23.4	27.7	32		-26
FL8	FL8	49		1		FLG NAV 20 M		59.6	0.4	23.4	25.1	30		-26
FL5	FL6	50		186	7.5	FLG AERO-H 7		59.6	-6	-1	20.3	24.3		-13
FL5	FL6	51		112	5	FLG AERO-I 5		59.6	-3.8	1.2	22.5	26.5		-19
FL5	FL6	52		58	2.5	FLG AERO-L 2.		59.6	-0.9	4.1	25.4	29.4		-26
FL5	FL6	53		68	45	FLG F77 45 kH		59.6	-4.6	0.4	24.7	25.7		-4
FL5	FL6	54		1023	5	FLG F55 5kHz.		59.6	-14.4	-9.4	12.9	15.9		-7
FL5	FL6	55		323	7.5	FLG F33 7.5 k		59.6	-8.9	-3.9	17.4	21.4		-12.5
FL3	FL4	56		2399	7.5	FLR MINI-M 7.5		59.6	-5.1	-0.1	24.2	28.2		-17
FL3	FL4	57		6457	7.5	FLR AERO-H 7		59.6	-10	-5	19.9	23.9		-13
FL3	FL4	58		2042	12.5	FLR AERO-I 12		59.6	-5.3	-0.3	24.9	28.9		-19
FL3	FL4	59		2291	45	FLR F77 45 kH		59.6	-4.9	0.1	24.4	28.4		-4
FL3	FL4	60		1175	45	FLR F55 45 kH		59.6	-2	3	27.3	31.3		-7
FL3	FL4	61		1778	17.5	FLR F33 17.5 k		59.6	-3.8	1.2	25.5	29.5		-12.5
FL3	FL4	62		603	45	FLR SWIFT64		59.6	0.9	5.9	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	35.6
RL5	RL6	64		13183	5	RLG AERO-I 5		6	9.9	16	-10.2	-0.2	-162.3	35.6
RL5	RL6	65		18577	2.5	RLG AERO-L 2		0	11.8	13.5	-14.7	-9	-169	35.6

RL5	RL6	66		851	45	RLG F77 45 kH		20	10	12	1.7	7.7	-164.4	35.6
RL5	RL6	67		13490	5	RLG F55 5 kHz		17	3	8	-10.3	-1.3	-163.4	35.6
RL5	RL6	68		13490	5	RLG F33 5 kHz		11.5	8.5	13.5	-10.3	-1.3	-163.4	35.6
RL3	RL4	69		16800	7.5	RLR MINI-M 7.		10	-1.5	7	-16.9	-4.5	-166.6	35.6
RL3	RL4	70		11749	7.5	RLR AERO-H 7		12	2	7.5	-9.7	0.8	-163.4	35.6
RL3	RL4	71		10080	12.5	RLR AERO-I 12		6	6.7	7.5	-11.8	-7	-171.3	35.6
RL3	RL4	72		955	45	RLR F77 45 kH		20	3.6	12	1.2	9.6	-162.5	35.6
RL3	RL4	73		955	45	RLR F55 45 kH		17	6.6	11.6	1.2	6.2	-165.9	35.6
RL3	RL4	74		5248	17.5	RLR F33 17.5 k		11.5	3.7	9.5	-6.2	-1.4	-169.2	35.6
RL3	RL4	75		933	45	RLR SWIFT64		11.5	9.2	13.5	1.3	5.6	-166.5	35.6
FL5	FL6	76		4	100	FLG AFC.doc		59.6	-14.6	3.4	10	15		21.7
RL5	RL6	77		4	100	RLG AFC.doc		45.7	-14.7	-4.7	-9	-4		35.6

**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: Inmarsat Satellite Access Station			
S14b. City: Haleiwa	S14c. County: Honolulu	S14d. State/Country HI	S14e. Zip Code: 96712
S14f. Telephone Number: +1-808-638-5122		S14g. Call Sign of Control Station (if appropriate): KA25	

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

S15. SPACECRAFT PHYSICAL CHARACTERISTICS:

S15a. Mass of spacecraft without fuel (kg): 3340	Spacecraft Dimensions (meters)	Probability of Survival to End of Life (0.0 - 1.0)
S15b. Mass of fuel and disposables at launch (kg): 2619		
S15c. Mass of spacecraft and fuel at launch (kg): 5959	S15f. Length (m): 18	S15i. Payload: 0.74
S15d. Mass of fuel, in orbit, at beginning of life (kg): 350	S15g. Width (m): 45	S15j. Bus: 0.89
S15e. Deployed Area of Solar Array (square meters): 89.3	S15h. Height (m): 8	S15k. Total: 0.66

S16. SPACECRAFT ELECTRICAL CHARACTERISTICS:

Spacecraft Subsystem	Electrical Power (Watts) At Beginning of Life		Electrical Power (Watts) At End of Life	
	At Equinox	At Solstice	At Equinox	At Solstice
Payload (Watts):	(a): 8981	(f): 8981	(k): 8981	(p): 8981
Bus (Watts):	(b): 840	(g): 596	(l): 840	(q): 596
Total (Watts):	(c): 11635	(h): 10423	(m): 11696	(r): 10423
Solar Array (Watts):	(d): 14086	(i): 13208	(n): 13388	(s): 12038
Depth of Battery Discharge (%):	(e) 68 %	(j) 0 %	(o) 72 %	(t) 12 %

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

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.