

S1. GENERAL INFORMATION Complete for all satellite applications.

a. Space Station or Satellite Network Name: IS 14		e. Estimated Date of Placement into Service: 10/1/2009		i. Will the space station(s) operate on a Common Carrier Basis: N	
b. Construction Commencement Date: 1/10/2007		f. Estimated Lifetime of Satellite(s): 15 Years		j. Number of transponders offered on a common carrier basis:	
c. Construction Completion Date: 6/1/2009		g. Total Number of Transponders: 62		k. Total Common Carrier Transponder Bandwidth: MHz	
d1. Est Launch Date Begin: 7/1/2009	d2. Est Launch Date End: 9/1/2009	h. Total Transponder Bandwidth (no. transponders x Bandwidth) 2448 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)		
5925	M	6425	M	R	Fixed Satellite Service
3700	M	4200	M	T	Fixed Satellite Service
14000	M	14500	M	R	Fixed Satellite Service
11450	M	11950	M	T	Fixed Satellite Service

S3. ORBITAL INFORMATION FOR GEOSTATIONARY SATELLITES ONLY:

a. Nominal Orbital Longitude (Degrees E/W): 45 W		b. Alternate Orbital Longitude (Degrees E/W):		c. Reason for orbital location selection: TO REPLACE THE INTELSAT IR SPACECRAFT CURRENTLY OPERATING AT 45W	
Longitudinal Tolerance or E/W Station-Keeping:		f. Inclination Excursion or N/S Station-Keeping Tolerance: 0.05 Degrees	Range of orbital are in which adequate service can be provided (Optional): Degrees E/W		
d. Toward West: 0.05 Degrees	e. Toward East: 0.05 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.
1	S		EUROPE AND AFRICA
2	S		AMERICAS
3	S		EUROPE, AFRICA, USA
4	S		GLOBAL

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

(a) Beam ID	(b) T/R Mode	(c) 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			Input Attenuator (dB)	
		(c) Peak (dBi)	(d) Edge (dBi)							(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)	(q) Max. Value	(r) Step Size
CEU	R	30.6	20.6	0.39	0.12		N	0	1				519	3.5	-102.8	21	1
CEU	R	30.6	20.6	0.39	0.12		N	90	1				519	3.5	-102.8	21	1
CEU	R	32.2	22.2	0.39	0.12		N		1				594	4.5	-104.4	21	1
CEU	R	32.2	22.2	0.39	0.12		N		1				594	4.5	-104.4	21	1
CAU	R	28.1	18.1	0.39	0.12		Y	0	2				563	0.6	-100.1	21	1
CAU	R	28.1	18.1	0.39	0.12		Y	90	2				563	0.6	-100.1	21	1
KEU	R	35.3	25.3	0.39	0.12		N	0	3				592	7.6	-103	21	1
KEU	R	35.3	25.3	0.39	0.12		N	90	3				592	7.6	-103	21	1
KAU	R	30.8	22.8	0.39	0.12		N	0	2				634	2.8	-101.2	21	1
KAU	R	30.8	22.8	0.39	0.12		N	90	2				634	2.8	-101.2	21	1
CED	T	30.2	22.2	0.39	0.12		N	0	1	2.1	30.9	45.1					
CED	T	30.2	22.2	0.39	0.12		N	90	1	2.1	30.9	45.1					
CED	T	29.9	19.9	0.39	0.12		N		1	2.5	33.9	45.2					
CED	T	29.9	19.9	0.39	0.12		N		1	2.5	33.9	45.2					
CAD	T	27.2	17.2	0.39	0.12		N	0	2	2.1	39.8	43.3					
CAD	T	27.4	17.4	0.39	0.12		N	90	2	2.1	39.8	43.5					
KED	T	33.9	25.9	0.39	0.12		N	0	3	1.8	100	53.9					
KED	T	33.9	25.9	0.39	0.12		N	90	3	1.8	100	53.9					
KAD	T	29.7	23.7	0.39	0.12		N	0	2	2.1	93.3	49.4					
KAD	T	29.6	23.6	0.39	0.12		N	90	2	2.1	93.3	49.3					
CMD	R	28.1	20.8	0.39	0.12		N	90	2				32310	-16.9	-117.8		
CMD	R	2	-4	0.39	0.12		N		4				5129	-35.1	-99.5		
CMD	R	6	0	0.39	0.12		N		4				30803	-38.9	-95.9		
TLM	T	27.2	21.1	0.39	0.12		N	0	2	6	0.1	17.2					
TLM	T	2	-4	0.39	0.12		N		4	4.5	15.8	14					
TLM	T	6	0	0.39	0.12		N		4	11.1	3.5	11.4					
UPC	T	22.3	19.7	0.39	0.12		N	0	4	3.7	0.2	14.6					
UPC	T	22.3	19.7	0.39	0.12		N	90	4	3.7	0.2	14.6					
UPK	T	22.2	19.6	0.39	0.12		N	0	4	5.7	0.3	16.5					

UPK	T	22.2	19.6	0.39	0.12		N		90	4	5.7	0.3	16.5					
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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
CEU	R	C	-45		ceuh.gxt					
CEU	R	C	-45		ceuv.gxt					
CEU	R	C	-45		ceur.gxt					
CEU	R	C	-45		ceul.gxt					
CAU	R	C	-45		cauh.gxt					
CAU	R	C	-45		cauv.gxt					
KEU	R	C	-45		keuh.gxt					
KEU	R	C	-45		keuv.gxt					
KAU	R	C	-45		kauh.gxt					
KAU	R	C	-45		kauv.gxt					
CED	T	C	-45		cedh.gxt	-152	-149.5	-147.9	-147.8	-147.7
CED	T	C	-45		cedv.gxt	-152	-149.5	-147.9	-147.8	-147.7
CED	T	C	-45		cedr.gxt	-152	-149.5	-147.8	-147.7	-147.6
CED	T	C	-45		cedl.gxt	-152	-149.5	-147.8	-147.7	-147.6
CAD	T	C	-45		cadh.gxt	-152	-149.9	-149.7	-149.6	-149.5
CAD	T	C	-45		cadv.gxt	-152	-149.7	-149.5	-149.4	-149.3
KED	T	C	-45		kedh.gxt	-150	-147.5	-145	-142.5	-140
KED	T	C	-45		kedv.gxt	-150	-147.5	-145	-142.5	-140
KAD	T	C	-45		kadh.gxt					
KAD	T	C	-45		kadv.gxt					
CMD	R	C	-45		cmdc.gxt					
CMD	R	C	-45	CMDW.pdf						
CMD	R	C	-45	CMDM.pdf						
TLM	T	C	-45		tlmc.gxt	-166.6	-166.5	-166.4	-166.2	-166.1
TLM	T	C	-45	TLMW.pdf		-169.8	-169.7	-169.6	-169.4	-169.3
TLM	T	C	-45	TLMM.pdf		-172.4	-172.3	-172.2	-172	-171.9
UPC	T	C	-45		upch.gxt	-156.6	-156.5	-156.4	-156.3	-156.2
UPC	T	C	-45		upcv.gxt	-156.6	-156.5	-156.4	-156.3	-156.2

UPK	T	C	-45		upkh.gxt	-154.7	-154.6	-154.5	-154.4	-154.3
UPK	T	C	-45		upkv.gxt	-154.7	-154.6	-154.5	-154.4	-154.3
CEU	R	X	-45	SCHEDULE_S_NOTE						
CEU	R	X	-45	SCHEDULE_S_NOTE						
CEU	R	X	-45	SCHEDULE_S_NOTE						
CEU	R	X	-45	SCHEDULE_S_NOTE						
CAU	R	X	-45	SCHEDULE_S_NOTE						
CAU	R	X	-45	SCHEDULE_S_NOTE						
KEU	R	X	-45	SCHEDULE_S_NOTE						
KEU	R	X	-45	SCHEDULE_S_NOTE						
KAU	R	X	-45	SCHEDULE_S_NOTE						
KAU	R	X	-45	SCHEDULE_S_NOTE						
CED	T	X	-45	SCHEDULE_S_NOTE						
CED	T	X	-45	SCHEDULE_S_NOTE						
CED	T	X	-45	SCHEDULE_S_NOTE						
CED	T	X	-45	SCHEDULE_S_NOTE						
CAD	T	X	-45	SCHEDULE_S_NOTE						
CAD	T	X	-45	SCHEDULE_S_NOTE						
KED	T	X	-45	SCHEDULE_S_NOTE						
KED	T	X	-45	SCHEDULE_S_NOTE						
KAD	T	X	-45	SCHEDULE_S_NOTE						
KAD	T	X	-45	SCHEDULE_S_NOTE						

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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)
1CU	36000	R	5960	V	C
3CU	36000	R	6000	V	C
5CU	36000	R	6040	V	C
7CU	36000	R	6080	V	C
9CU	36000	R	6120	V	C
11CU	36000	R	6160	V	C
13CU	36000	R	6200	L	C
15CU	36000	R	6240	L	C
17CU	36000	R	6280	L	C
19CU	36000	R	6320	L	C
21CU	36000	R	6360	L	C
23CU	36000	R	6400	L	C
2CU	36000	R	5960	H	C
4CU	36000	R	6000	H	C
6CU	36000	R	6040	H	C
8CU	36000	R	6080	H	C
10CU	36000	R	6120	H	C
12CU	36000	R	6160	H	C
14CU	36000	R	6200	R	C
16CU	36000	R	6240	R	C
18CU	36000	R	6280	R	C
20CU	36000	R	6320	R	C
22CU	36000	R	6360	R	C
24CU	36000	R	6400	R	C
25CU	36000	R	5960	V	C
27CU	36000	R	6000	V	C
29CU	36000	R	6040	V	C
31CU	36000	R	6080	V	C
33CU	72000	R	6142	V	C
35CU	72000	R	6222	V	C

(a) Transponder ID	(b) Transponder Gain (dB)	Receive Band		Transmit Band	
		(c) Channel No.	(d) Beam ID	(e) Channel No.	(f) Beam ID
1C	124.2	1CU	CEUV	1CD	CEDH
3C	124.2	3CU	CEUV	3CD	CEDH
5C	124.2	5CU	CEUV	5CD	CEDH
7C	124.2	7CU	CEUV	7CD	CEDH
9C	124.2	9CU	CEUV	9CD	CEDH
11C	124.2	11CU	CEUV	11CD	CEDH
13C	124.9	13CU	CEUL	13CD	CEDR
15C	124.9	15CU	CEUL	15CD	CEDR
17C	124.9	17CU	CEUL	17CD	CEDR
19C	124.9	19CU	CEUL	19CD	CEDR
21C	124.9	21CU	CEUL	21CD	CEDR
23C	124.9	23CU	CEUL	23CD	CEDR
2C	124.2	2CU	CEUH	2CD	CEDV
4C	124.2	4CU	CEUH	4CD	CEDV
6C	124.2	6CU	CEUH	6CD	CEDV
8C	124.2	8CU	CEUH	8CD	CEDV
10C	124.2	10CU	CEUH	10CD	CEDV
12C	124.2	12CU	CEUH	12CD	CEDV
14C	124.9	14CU	CEUR	14CD	CEDL
16C	124.9	16CU	CEUR	16CD	CEDL
18C	124.9	18CU	CEUR	18CD	CEDL
20C	124.9	20CU	CEUR	20CD	CEDL
22C	124.9	22CU	CEUR	22CD	CEDL
24C	124.9	24CU	CEUR	24CD	CEDL
25C	125.4	25CU	CAUV	25CD	CADH
27C	125.4	27CU	CAUV	27CD	CADH
29C	125.4	29CU	CAUV	29CD	CADH
31C	125.4	31CU	CAUV	31CD	CADH
33C	125.4	33CU	CAUV	33CD	CADH
35C	125.4	35CU	CAUV	35CD	CADH

37CU	72000	R	6302	V	C
39CU	72000	R	6382	V	C
26CU	36000	R	5960	H	C
28CU	36000	R	6000	H	C
30CU	36000	R	6040	H	C
32CU	36000	R	6080	H	C
34CU	72000	R	6142	H	C
36CU	72000	R	6222	H	C
38CU	72000	R	6302	H	C
40CU	72000	R	6382	H	C
25HU	36000	R	5960	H	C
27HU	36000	R	6000	H	C
29HU	36000	R	6040	H	C
31HU	36000	R	6080	H	C
33HU	72000	R	6142	H	C
35HU	72000	R	6222	H	C
37HU	72000	R	6302	H	C
39HU	72000	R	6382	H	C
26VU	36000	R	5960	V	C
28VU	36000	R	6000	V	C
30VU	36000	R	6040	V	C
32VU	36000	R	6080	V	C
34VU	72000	R	6142	V	C
36VU	72000	R	6222	V	C
38VU	72000	R	6302	V	C
40VU	72000	R	6382	V	C
1KU	36000	R	14020	V	C
3KU	36000	R	14060	V	C
5KU	36000	R	14100	V	C
7KU	36000	R	14140	V	C
9KU	72000	R	14202	V	C
11KU	36000	R	14270	V	C
13KU	36000	R	14310	V	C
15KU	36000	R	14350	V	C
17KU	36000	R	14390	V	C
19KU	36000	R	14430	V	C
21KU	36000	R	14470	V	C
2KU	36000	R	14020	H	C
4KU	36000	R	14060	H	C

37C	125.4	37CU	CAUV	37CD	CADH
39C	125.4	39CU	CAUV	39CD	CADH
26C	125.4	26CU	CAUH	26CD	CADV
28C	125.4	28CU	CAUH	28CD	CADV
30C	125.4	30CU	CAUH	30CD	CADV
32C	125.4	32CU	CAUH	32CD	CADV
34C	125.4	34CU	CAUH	34CD	CADV
36C	125.4	36CU	CAUH	36CD	CADV
38C	125.4	38CU	CAUH	38CD	CADV
40C	125.4	40CU	CAUH	40CD	CADV
25H	125.4	25HU	CAUH	25CD	CADH
27H	125.4	27HU	CAUH	27CD	CADH
29H	125.4	29HU	CAUH	29CD	CADH
31H	125.4	31HU	CAUH	31CD	CADH
33H	125.4	33HU	CAUH	33CD	CADH
35H	125.4	35HU	CAUH	35CD	CADH
37H	125.4	37HU	CAUH	37CD	CADH
39H	125.4	39HU	CAUH	39CD	CADH
26V	125.4	26VU	CAUV	26CD	CADV
28V	125.4	28VU	CAUV	28CD	CADV
30V	125.4	30VU	CAUV	30CD	CADV
32V	125.4	32VU	CAUV	32CD	CADV
34V	125.4	34VU	CAUV	34CD	CADV
36V	125.4	36VU	CAUV	36CD	CADV
38V	125.4	38VU	CAUV	38CD	CADV
40V	125.4	40VU	CAUV	40CD	CADV
1K	132.1	1KU	KEUV	1KD	KEDH
3K	132.1	3KU	KEUV	3KD	KEDH
5K	132.1	5KU	KEUV	5KD	KEDH
7K	132.1	7KU	KEUV	7KD	KEDH
9K	132.1	9KU	KEUV	9KD	KEDH
11K	132	11KU	KAUV	11KD	KADH
13K	132	13KU	KAUV	13KD	KADH
15K	132	15KU	KAUV	15KD	KADH
17K	132	17KU	KAUV	17KD	KADH
19K	132	19KU	KAUV	19KD	KADH
21K	132	21KU	KAUV	21KD	KADH
2K	132.1	2KU	KEUH	2KD	KEDV
4K	132.1	4KU	KEUH	4KD	KEDV

6KU	36000	R	14100	H	C
8KU	36000	R	14140	H	C
10KU	72000	R	14202	H	C
12KU	36000	R	14270	H	C
14KU	36000	R	14310	H	C
16KU	36000	R	14350	H	C
18KU	36000	R	14390	H	C
20KU	36000	R	14430	H	C
22KU	36000	R	14470	H	C
1CD	36000	T	3735	H	C
3CD	36000	T	3775	H	C
5CD	36000	T	3815	H	C
7CD	36000	T	3855	H	C
9CD	36000	T	3895	H	C
11CD	36000	T	3935	H	C
13CD	36000	T	3975	R	C
15CD	36000	T	4015	R	C
17CD	36000	T	4055	R	C
19CD	36000	T	4095	R	C
21CD	36000	T	4135	R	C
23CD	36000	T	4175	R	C
2CD	36000	T	3735	V	C
4CD	36000	T	3775	V	C
6CD	36000	T	3815	V	C
8CD	36000	T	3855	V	C
10CD	36000	T	3895	V	C
12CD	36000	T	3935	V	C
14CD	36000	T	3975	L	C
16CD	36000	T	4015	L	C
18CD	36000	T	4055	L	C
20CD	36000	T	4095	L	C
22CD	36000	T	4135	L	C
24CD	36000	T	4175	L	C
25CD	36000	T	3735	H	C
27CD	36000	T	3775	H	C
29CD	36000	T	3815	H	C
31CD	36000	T	3855	H	C
33CD	72000	T	3917	H	C
35CD	72000	T	3997	H	C

6K	132.1	6KU	KEUH	6KD	KEDV
8K	132.1	8KU	KEUH	8KD	KEDV
10K	132.1	10KU	KEUH	10KD	KEDV
12K	132	12KU	KAUH	12KD	KADV
14K	132	14KU	KAUH	14KD	KADV
16K	132	16KU	KAUH	16KD	KADV
18K	132	18KU	KAUH	18KD	KADV
20K	132	20KU	KAUH	20KD	KADV
22K	132	22KU	KAUH	22KD	KADV

37CD	72000	T	4077	H	C
39CD	72000	T	4157	H	C
26CD	36000	T	3735	V	C
28CD	36000	T	3775	V	C
30CD	36000	T	3815	V	C
32CD	36000	T	3855	V	C
34CD	72000	T	3917	V	C
36CD	72000	T	3997	V	C
38CD	72000	T	4077	V	C
40CD	72000	T	4157	V	C
25CD	36000	T	3735	H	C
27CD	36000	T	3775	H	C
29CD	36000	T	3815	H	C
31CD	36000	T	3855	H	C
33CD	72000	T	3917	H	C
35CD	72000	T	3997	H	C
37CD	72000	T	4077	H	C
39CD	72000	T	4157	H	C
26CD	36000	T	3735	V	C
28CD	36000	T	3775	V	C
30CD	36000	T	3815	V	C
32CD	36000	T	3855	V	C
34CD	72000	T	3917	V	C
36CD	72000	T	3997	V	C
38CD	72000	T	4077	V	C
40CD	72000	T	4157	V	C
1KD	36000	T	11470	H	C
3KD	36000	T	11510	H	C
5KD	36000	T	11550	H	C
7KD	36000	T	11590	H	C
9KD	72000	T	11652	H	C
11KD	36000	T	11720	H	C
13KD	36000	T	11760	H	C
15KD	36000	T	11800	H	C
17KD	36000	T	11840	H	C
19KD	36000	T	11880	H	C
21KD	36000	T	11920	H	C
2KD	36000	T	11470	V	C
4KD	36000	T	11510	V	C

6KD	36000	T	11550	V	C
8KD	36000	T	11590	V	C
10KD	72000	T	11652	V	C
12KD	36000	T	11720	V	C
14KD	36000	T	11760	V	C
16KD	36000	T	11800	V	C
18KD	36000	T	11840	V	C
20KD	36000	T	11880	V	C
22KD	36000	T	11920	V	C
CMD1	1000	R	5927	V	T
CMD2	1000	R	5932	V	T
CMD3	1000	R	5927	L	T
CMD4	1000	R	5932	L	T
TLM1	500	T	3709	H	T
TLM2	500	T	3710	H	T
TLM3	500	T	3709	R	T
TLM4	500	T	3710	R	T
UPC1	25	T	3704	H	T
UPC2	25	T	3705	V	T
UPC3	25	T	11695	H	T
UPC4	25	T	11694	V	T

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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)
D1	72M0G7W	72000	4	55539.3	0.5		3.4	10.1
D2	36M0G7W	36000	4	27769.6	0.5		3.4	10.3
D3	10M3G7W	6771	4	10300	0.5		3.9	11
D4	1M45G7W	1450	2	614.5	0.5		3.4	9.5
D5	400KG7W	400	2	153.5	0.5		3.4	10.7
D6	100KG7W	100	4	70.4	0.5		3	9.6

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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						
A1	36M0F3F	36000	TV/FM	1					PAL	15.6	1.5		10	18.8

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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)			
		(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/m2/Hz)	(o) Assoc. Stn Rec. G/T (dB/K)
1C	40C		A1	1		Link_Budgets.p	4000	49.7	13.5	23.5	28.3	36.3	-155.8	21.4
1C	40C	D2		1		S13_SCHEDUL		49.7	13.3	23.3	37.1	45.1	-155.8	18.8
1C	40C	D3		3	10300	S13_SCHEDUL		49.7	4.8	14.8	30.6	38.6	-155.8	19.6
1C	40C	D6		360	100	S13_SCHEDUL		49.7	-14.7	-4.7	11.1	19.1	-155.8	19
1C	40C		A1	1		S13_SCHEDUL	4000	50.1	13.5	23.5	26.4	36.4	-155.7	22.7
1C	40C	D2		1		S13_SCHEDUL		50.1	13.3	23.3	35.2	45.2	-155.7	19
1C	40C	D3		3	10300	S13_SCHEDUL		50.1	4.8	14.8	28.7	38.7	-155.7	19.8
1C	40C	D6		360	100	S13_SCHEDUL		50.1	-14.7	-4.7	9.2	19.2	-155.7	19.2
1C	40C		A1	1		S13_SCHEDUL	4000	49.7	13.9	23.9	24.5	34.5	-157.6	23.5
1C	40C	D2		1		S13_SCHEDUL		49.7	13.7	23.7	33.3	43.3	-157.6	19.2
1C	40C	D3		3	10300	S13_SCHEDUL		49.7	5.2	15.2	26.8	36.8	-157.6	20.1
1C	40C	D6		360	100	S13_SCHEDUL		49.7	-14.3	-4.3	7.3	17.3	-157.6	19.5
1C	40C		A1	2	36000	S13_SCHEDUL	4000	50	13.6	23.6	21.5	31.5	-160.6	26.3
1C	40C	D1		1		S13_SCHEDUL		50	13.4	23.4	33.3	43.3	-160.6	20.8
1C	40C	D3		6	10300	S13_SCHEDUL		50	1.9	11.9	23.8	33.8	-160.6	25.3
1C	40C	D6		720	100	S13_SCHEDUL		50	-17.6	-7.6	4.3	14.3	-160.6	21.9
1K	22K		A1	1		S13_SCHEDUL	4000	57.1	11.8	21.8	39	47	-145.1	21.1
1K	22K	D2		1		S13_SCHEDUL		57.1	-6.4	3.6	40.8	48.8	-152.1	21.1
1K	22K	D3		3		S13_SCHEDUL		57.1	7.1	17.1	34.3	42.3	-152.1	21.5
1K	22K	D6		360		S13_SCHEDUL		57.1	-12.4	-2.4	14.8	22.8	-152.1	20.7
1K	22K	D4		24		S13_SCHEDUL		57.1	-0.5	9.5	26.7	34.7	-152.3	20.8
1K	22K	D5		90		S13_SCHEDUL		44.5	-6	4	8.6	16.6	-164.4	26.4
1K	22K		A1	2		S13_SCHEDUL	4000	57.1	8.8	18.8	39	47	-145.1	21.3
1K	22K	D1		1		S13_SCHEDUL		57.1	13.6	23.6	43.8	51.8	-152.1	21.3
1K	22K	D2		2		S13_SCHEDUL		57.1	10.6	20.6	40.8	48.8	-152.1	21.5
1K	22K	D3		6		S13_SCHEDUL		57.1	4.1	14.1	34.3	42.3	-152.1	21.7
1K	22K	D6		720		S13_SCHEDUL		57.1	-15.4	-5.4	14.8	22.8	-152.1	20.9
1K	22K	D4		49		S13_SCHEDUL		57.1	-3.4	6.6	26.8	34.8	-152.2	20.9
1K	22K	D5		180		S13_SCHEDUL		44.5	-9.3	0.7	9.3	17.3	-163.7	-2.4

1K	22K		A1	1	S13_SCHEDUL	4000	57.2	13.8	21.8	41	47	-145.1	19.6
1K	22K	D2		1	S13_SCHEDUL		57.2	15.6	23.6	42.8	48.8	-152.1	19.6
1K	22K	D3		3	S13_SCHEDUL		57.2	9.1	17.1	36.3	42.3	-152.1	19.9
1K	22K	D6		360	S13_SCHEDUL		57.2	-10.4	-2.4	16.8	22.8	-152.1	19.4
1K	22K	D4		24	S13_SCHEDUL		57.2	1.7	9.7	28.9	34.9	-152.1	19.4
1K	22K	D5		90	S13_SCHEDUL		43.1	-4.1	3.9	9	15	-166	33.5

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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: 3400 INTERNATIONAL DRIVE			
S14b. City: WASHINGTON	S14c. County:	S14d. State/Country DC	S14e. Zip Code: 20008
S14f. Telephone Number: 202-944-7701		S14g. Call Sign of Control Station (if appropriate):	

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S15. SPACECRAFT PHYSICAL CHARACTERISTICS:

S15a. Mass of spacecraft without fuel (kg): 2517	Spacecraft Dimensions (meters)	Probability of Survival to End of Life (0.0 - 1.0)
S15b. Mass of fuel and disposables at launch (kg): 3146		
S15c. Mass of spacecraft and fuel at launch (kg): 5663	S15f. Length (m): 26.1	S15i. Payload: 0.862
S15d. Mass of fuel, in orbit, at beginning of life (kg): 967	S15g. Width (m): 7.7	S15j. Bus: 0.763
S15e. Deployed Area of Solar Array (square meters): 74.3	S15h. Height (m): 14	S15k. Total: 0.658

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): 10071	(f): 10071	(k): 10071	(p): 10071
Bus (Watts):	(b): 2648	(g): 1233	(l): 2648	(q): 1233
Total (Watts):	(c): 12719	(h): 11304	(m): 12719	(r): 11304
Solar Array (Watts):	(d): 15000	(i): 13335	(n): 13404	(s): 11916
Depth of Battery Discharge (%):	(e) 66.8 %	(j) %	(o) 70.8 %	(t) %

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.