

S1. GENERAL INFORMATION Complete for all satellite applications.

a. Space Station or Satellite Network Name: SATMEX 6		e. Estimated Date of Placement into Service: 7/1/2006		i. Will the space station(s) operate on a Common Carrier Basis: N	
b. Construction Commencement Date: 1/15/2001		f. Estimated Lifetime of Satellite(s): 15.2 Years		j. Number of transponders offered on a common carrier basis: 0	
c. Construction Completion Date: 7/25/2003		g. Total Number of Transponders: 60		k. Total Common Carrier Transponder Bandwidth: 0 MHz	
d1. Est Launch Date Begin: 5/17/2006	d2. Est Launch Date End: 5/17/2006	h. Total Transponder Bandwidth (no. transponders x Bandwidth) 2160 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
11700	M	12200	M	T	Fixed Satellite Service
3700	M	4200	M	T	Direct to Home in the Fixed Fixed Satellite Service
11700	M	12200	M	T	Direct to Home in the Fixed Fixed Satellite Service

S3. ORBITAL INFORMATION FOR GEOSTATIONARY SATELLITES ONLY:

a. Nominal Orbital Longitude (Degrees E/W): 113 W		b. Alternate Orbital Longitude (Degrees E/W):		c. Reason for orbital location selection: The orbital location is consistent with the Trilateral Agreement reached between Canada, Mexico and the United States of America in 1988.	
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): <u>Degrees</u> <u>E/W</u>		
d. Toward West:	0.05 Degrees		g. Westernmost: h. Easternmost:		
e. Toward East:	0.05 Degrees	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.
SA1	S		-6 dB contour of beam CCUH
SA2	S		-6 dB contour of beam CCUV
SA3	S		-6 dB contour of beam CCDH
SA4	S		-6 dB contour of beam CCDV
SA5	S		-6 dB contour of beam CHUH
SA6	S		-6 dB contour of beam CHUV
SA7	S		-6 dB contour of beam CHDH
SA8	S		-6 dB contour of beam CHDV
SA9	S		-6 dB contour of beam CSUH
SA10	S		-6 dB contour of beam CSUV
SA11	S		-6 dB contour of beam CSDH
SA12	S		-6 dB contour of beam CSDV
SA13	S		-6 dB contour of beam KNUH
SA14	S		-6 dB contour of beam KNUV
SA15	S		-6 dB contour of beam KNDH
SA16	S		-6 dB contour of beam KNDV
SA17	S		-6 dB contour of beam KHUH
SA18	S		-6 dB contour of beam KHUV
SA19	S		-6 dB contour of beam KHDH
SA20	S		-6 dB contour of beam KHDV
SA21	S		Visible 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			Input Attenuator (dB)	
										(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
		(c) Peak (dBi)	(d) Edge (dBi)														
CCU	R	30.6	24.6	0.13	0	27	N	0	SA1				457	4	-98	31	1
CCU	R	30.6	24.6	0.13	0	27	N	90	SA2				457	4	-98	31	1
CCD	T	30.3	24.3	0.13	0	27	N	0	SA3	1.7	31.6	45.3					
CCD	T	30.3	24.3	0.13	0	27	N	90	SA4	1.5	33.1	45.5					
CHU	R	28.5	22.5	0.13	0	27	N	0	SA5				479	1.7	-98	31	1
CHU	R	27.6	21.6	0.13	0	27	N	90	SA6				468	0.9	-98	31	1
CHD	T	27.9	21.9	0.13	0	27	N	0	SA7	1.5	33.1	43.1					
CHD	T	25.9	19.9	0.13	0	27	N	90	SA8	1.5	33.9	41.2					
CSU	R	31.6	25.6	0.13	0	30	N	0	SA9				380	5.8	-98	31	1
CSU	R	31.6	25.6	0.13	0	30	N	90	SA10				380	5.8	-98	31	1
CSD	T	31.1	25.1	0.13	0	30	N	0	SA11	1.6	24.5	45					
CSD	T	31.1	25.1	0.13	0	30	N	90	SA12	1.6	24.5	45					
KNU	R	34.4	28.4	0.13	0	30	N	0	SA13				692	6	-96	36	1
KNU	R	34.4	28.4	0.13	0	30	N	90	SA14				692	6	-96	36	1
KND	T	33.3	27.3	0.13	0	30	N	0	SA15	2.7	79.4	52.3					
KND	T	33.3	27.3	0.13	0	30	N	90	SA16	2.4	85.1	52.6					
KHU	R	31	25	0.13	0	30	N	0	SA17				603	3.2	-96	36	1
KHU	R	31	25	0.13	0	30	N	90	SA18				603	3.2	-96	36	1
KHD	T	30	24	0.13	0	30	N	0	SA19	2.9	129	51.1					
KHD	T	30	24	0.13	0	30	N	90	SA20	2.6	138	51.4					
OMNI	R	2	0	0.13	0	30	N		SA21				9600	-37.8			

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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
CCU	R	C	-113		CCUH.gxt					
CCU	R	C	-113		CCUV.gxt					
CCD	T	C	-113		CCDH.gxt	-152.3	-152.1	-151.7	-151.2	-150.3
CCD	T	C	-113		CCDV.gxt	-152.8	-152.5	-152.2	-151.6	-150.6
CHU	R	C	-113		CHUH.gxt					
CHU	R	C	-113		CHUV.gxt					
CHD	T	C	-113		CHDH.gxt	-152	-151.7	-151.3	-150.8	-150.4
CHD	T	C	-113		CHDV.gxt	-152	-151.7	-151.5	-151.1	-150.7
CSU	R	C	-113		CSUH.gxt					
CSU	R	C	-113		CSUV.gxt					
CSD	T	C	-113		CSDH.gxt	-152	-151.5	-150.8	-150	-149.1
CSD	T	C	-113		CSDV.gxt	-152	-151.4	-150.8	-150	-149.1
KNU	R	C	-113		KNUH.gxt					
KNU	R	C	-113		KNUV.gxt					
KND	T	C	-113		KNDH.gxt					
KND	T	C	-113		KNDV.gxt					
KHU	R	C	-113		KHUH.gxt					
KHU	R	C	-113		KHUV.gxt					
KHD	T	C	-113		KHDH.gxt					
KHD	T	C	-113		KHDV.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)
CU001	36000	R	5945	H	C
CU003	36000	R	5985	H	C
CU005	36000	R	6025	H	C
CU007	36000	R	6065	H	C
CU009	36000	R	6105	H	C
CU011	36000	R	6145	H	C
CU013	36000	R	6185	H	C
CU015	36000	R	6225	H	C
CU017	36000	R	6265	H	C
CU019	36000	R	6305	H	C
CU021	36000	R	6345	H	C
CU023	36000	R	6385	H	C
CU002	36000	R	5965	V	C
CU004	36000	R	6005	V	C
CU006	36000	R	6045	V	C
CU008	36000	R	6085	V	C
CU010	36000	R	6125	V	C
CU012	36000	R	6165	V	C
CU014	36000	R	6205	V	C
CU016	36000	R	6245	V	C
CU018	36000	R	6285	V	C
CU020	36000	R	6325	V	C
CU022	36000	R	6365	V	C
CU024	36000	R	6405	V	C
CD001	36000	T	3720	V	C
CD003	36000	T	3760	V	C
CD005	36000	T	3800	V	C
CD007	36000	T	3840	V	C
CD009	36000	T	3880	V	C
CD011	36000	T	3920	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
K0027	131	KU018	KHUH	KD018	KHDV
K0028	131	KU020	KHUH	KD020	KHDV
K0029	131	KU022	KHUH	KD022	KHDV
K0030	131	KU024	KHUH	KD024	KHDV
K0031	127	KU013	KNUV	KD013	KHDH
K0032	127	KU015	KNUV	KD015	KHDH
K0033	127	KU017	KNUV	KD017	KHDH
K0034	127	KU014	KNUH	KD014	KHDV
K0035	127	KU016	KNUH	KD016	KHDV
K0036	127	KU018	KNUH	KD018	KHDV
K0037	129	KU013	KHUV	KD013	KNDH
K0038	129	KU015	KHUV	KD015	KNDH
K0039	129	KU017	KHUV	KD017	KNDH
K0040	129	KU014	KHUH	KD014	KNDV
K0041	129	KU016	KHUH	KD016	KNDV
K0042	129	KU018	KHUH	KD018	KNDV
C0049	119	CU001	CSUH	CD001	CCDV
C0050	119	CU003	CSUH	CD003	CCDV
C0051	119	CU005	CSUH	CD005	CCDV
C0052	119	CU007	CSUH	CD007	CCDV
C0053	119	CU009	CSUH	CD009	CCDV
C0054	119	CU011	CSUH	CD011	CCDV
TC		TC	OMNI		
TM1				TM1	CHDV
TM2				TM2	CHDV
BCN1				BCN1	KNDV
BCN2				BCN2	KNDH
C0001	120	CU001	CCUH	CD001	CCDV
C0002	120	CU003	CCUH	CD003	CCDV
C0003	120	CU005	CCUH	CD005	CCDV

CD013	36000	T	3960	V	C
CD015	36000	T	4000	V	C
CD017	36000	T	4040	V	C
CD019	36000	T	4080	V	C
CD021	36000	T	4120	V	C
CD023	36000	T	4160	V	C
CD002	36000	T	3740	H	C
CD004	36000	T	3780	H	C
CD006	36000	T	3820	H	C
CD008	36000	T	3860	H	C
CD010	36000	T	3900	H	C
CD012	36000	T	3940	H	C
CD014	36000	T	3980	H	C
CD016	36000	T	4020	H	C
CD018	36000	T	4060	H	C
CD020	36000	T	4100	H	C
CD022	36000	T	4140	H	C
CD024	36000	T	4180	H	C
KU001	36000	R	14020	V	C
KU003	36000	R	14060	V	C
KU005	36000	R	14100	V	C
KU007	36000	R	14140	V	C
KU009	36000	R	14180	V	C
KU011	36000	R	14220	V	C
KU013	36000	R	14260	V	C
KU015	36000	R	14300	V	C
KU017	36000	R	14340	V	C
KU019	36000	R	14380	V	C
KU021	36000	R	14420	V	C
KU023	36000	R	14460	V	C
KU002	36000	R	14040	H	C
KU004	36000	R	14080	H	C
KU006	36000	R	14120	H	C
KU008	36000	R	14160	H	C
KU010	36000	R	14200	H	C
KU012	36000	R	14240	H	C
KU014	36000	R	14280	H	C
KU016	36000	R	14320	H	C
KU018	36000	R	14360	H	C

C0004	120	CU007	CCUH	CD007	CCDV
C0005	120	CU009	CCUH	CD009	CCDV
C0006	120	CU011	CCUH	CD011	CCDV
C0007	120	CU002	CCUV	CD002	CCDH
C0008	120	CU004	CCUV	CD004	CCDH
C0009	120	CU006	CCUV	CD006	CCDH
C0010	120	CU008	CCUV	CD008	CCDH
C0011	120	CU010	CCUV	CD010	CCDH
C0012	120	CU012	CCUV	CD012	CCDH
C0013	124	CU013	CHUH	CD013	CHDV
C0014	124	CU015	CHUH	CD015	CHDV
C0015	124	CU017	CHUH	CD017	CHDV
C0016	124	CU019	CHUH	CD019	CHDV
C0017	124	CU021	CHUH	CD021	CHDV
C0018	124	CU023	CHUH	CD023	CHDV
C0019	121	CU014	CHUV	CD014	CHDH
C0020	121	CU016	CHUV	CD016	CHDH
C0021	121	CU018	CHUV	CD018	CHDH
C0022	121	CU020	CHUV	CD020	CHDH
C0023	121	CU022	CHUV	CD022	CHDH
C0024	121	CU024	CHUV	CD024	CHDH
C0025	118	CU001	CSUH	CD001	CSDV
C0026	118	CU003	CSUH	CD003	CSDV
C0027	118	CU005	CSUH	CD005	CSDV
C0028	118	CU007	CSUH	CD007	CSDV
C0029	118	CU009	CSUH	CD009	CSDV
C0030	118	CU011	CSUH	CD011	CSDV
C0031	118	CU002	CSUV	CD002	CSDH
C0032	118	CU004	CSUV	CD004	CSDH
C0033	118	CU006	CSUV	CD006	CSDH
C0034	118	CU008	CSUV	CD008	CSDH
C0035	118	CU010	CSUV	CD010	CSDH
C0036	118	CU012	CSUV	CD012	CSDH
C0037	119	CU001	CCUH	CD001	CSDV
C0038	119	CU003	CCUH	CD003	CSDV
C0039	119	CU005	CCUH	CD005	CSDV
C0040	119	CU007	CCUH	CD007	CSDV
C0041	119	CU009	CCUH	CD009	CSDV
C0042	119	CU011	CCUH	CD011	CSDV

KU020	36000	R	14400	H	C
KU022	36000	R	14440	H	C
KU024	36000	R	14480	H	C
KD001	36000	T	11720	H	C
KD003	36000	T	11760	H	C
KD005	36000	T	11800	H	C
KD007	36000	T	11840	H	C
KD009	36000	T	11880	H	C
KD011	36000	T	11920	H	C
KD013	36000	T	11960	H	C
KD015	36000	T	12000	H	C
KD017	36000	T	12040	H	C
KD019	36000	T	12080	H	C
KD021	36000	T	12120	H	C
KD023	36000	T	12160	H	C
KD002	36000	T	11740	V	C
KD004	36000	T	11780	V	C
KD006	36000	T	11820	V	C
KD008	36000	T	11860	V	C
KD010	36000	T	11900	V	C
KD012	36000	T	11940	V	C
KD014	36000	T	11980	V	C
KD016	36000	T	12020	V	C
KD018	36000	T	12060	V	C
KD020	36000	T	12100	V	C
KD022	36000	T	12140	V	C
KD024	36000	T	12180	V	C
TC	1000	R	5926	R	T
TM1	300	T	4198.875	V	T
TM2	300	T	4199.5	V	T
BCN1	25	T	11701.5	V	T
BCN2	25	T	12199	H	T

C0043	119	CU002	CCUV	CD002	CSDH
C0044	119	CU004	CCUV	CD004	CSDH
C0045	119	CU006	CCUV	CD006	CSDH
C0046	119	CU008	CCUV	CD008	CSDH
C0047	119	CU010	CCUV	CD010	CSDH
C0048	119	CU012	CCUV	CD012	CSDH
C0055	119	CU002	CSUV	CD002	CCDH
C0056	119	CU004	CSUV	CD004	CCDH
C0057	119	CU006	CSUV	CD006	CCDH
C0058	119	CU008	CSUV	CD008	CCDH
C0059	119	CU010	CSUV	CD010	CCDH
C0060	119	CU012	CSUV	CD012	CCDH
K0001	125	KU001	KNUV	KD001	KNDH
K0002	125	KU003	KNUV	KD003	KNDH
K0003	125	KU005	KNUV	KD005	KNDH
K0004	125	KU007	KNUV	KD007	KNDH
K0005	125	KU009	KNUV	KD009	KNDH
K0006	125	KU011	KNUV	KD011	KNDH
K0007	125	KU013	KNUV	KD013	KNDH
K0008	125	KU015	KNUV	KD015	KNDH
K0009	125	KU017	KNUV	KD017	KNDH
K0010	125	KU002	KNUH	KD002	KNDV
K0011	125	KU004	KNUH	KD004	KNDV
K0012	125	KU006	KNUH	KD006	KNDV
K0013	125	KU008	KNUH	KD008	KNDV
K0014	125	KU010	KNUH	KD010	KNDV
K0015	125	KU012	KNUH	KD012	KNDV
K0016	125	KU014	KNUH	KD014	KNDV
K0017	125	KU016	KNUH	KD016	KNDV
K0018	125	KU018	KNUH	KD018	KNDV
K0019	131	KU013	KHUV	KD013	KHDH
K0020	131	KU015	KHUV	KD015	KHDH
K0021	131	KU017	KHUV	KD017	KHDH
K0022	131	KU019	KHUV	KD019	KHDH
K0023	131	KU021	KHUV	KD021	KHDH
K0024	131	KU023	KHUV	KD023	KHDH
K0025	131	KU014	KHUH	KD014	KHDV
K0026	131	KU016	KHUH	KD016	KHDV

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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	146KG7W	145.9	4	128	0.5		5.9	18.1
D2	1M56G7W	1556.5	4	2048	0.75		8.2	20.4
D3	5M56G7W	5563.2	4	7320	0.75		8.2	20.4
D4	36M0G7W	36000	4	41468	0.691		6.1	18.3

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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	36M0F9F	36000	TV/FM	1					NTSC	12.8	1.29		12	26

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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)
C0001	C0012	D1		240	150	146k C-C.doc		47.5	-7.5	-1.5	11.6	17.6	-160.4	24.6
C0001	C0012	D2		22	1636	1.56M C-C.doc		47.5	2.8	8.8	21.9	27.9	-160.7	28.5
C0001	C0012	D3		6	6000	5.56M C-C.doc		47.5	12	18	27.2	33.2	-160.7	24.6
C0001	C0012	D4		1		36M C-C.doc		53.5	13.5	19.5	37.8	43.8	-158.2	24.6
C0001	C0012		A1	1		TV C-C.doc	2000	53.5	15.5	21.5	37.8	43.8	-145.6	24.6
C0013	C0024	D1		240	150	146k H-H.doc		47.5	-7.5	-1.5	9.2	15.2	-162.7	24.6
C0013	C0024	D2		22	1636	1.56M H-H.doc		47.5	2.8	8.8	19.5	25.5	-162.7	28.5
C0013	C0024	D3		6	6000	5.56M H-H.doc		47.5	12	18	24.8	30.8	-163	24.6
C0013	C0024	D4		1		36M H-H.doc		53.5	18.6	24.6	37.1	43.1	-158.8	24.6
C0013	C0024		A1	1		TV H-H.doc	2000	53.5	14.9	20.9	35	41	-148.3	24.6
C0025	C0036	D1		240	150	146k S-S.doc		47.5	-7.5	-1.5	11.1	17.1	-161.1	24.6
C0025	C0036	D2		22	1636	1.56M S-S.doc		47.5	2.8	8.8	21.4	27.4	-161.1	28.5
C0025	C0036	D3		6	6000	5.56M S-S.doc		47.5	12	18	26.7	32.7	-161.3	24.6
C0025	C0036	D4		1		36M S-S.doc		53.5	11.6	17.6	36	42	-160.1	24.6
C0025	C0036		A1	1		TV S-S.doc	2000	53.5	13.4	19.4	35.8	41.8	-147.6	24.6
C0037	C0048	D1		240	150	146k C-S.doc		47.5	-7.5	-1.5	11.1	17.1	-161.1	24.6
C0037	C0048	D2		22	1636	1.56M C-S.doc		47.5	2.8	8.8	21.4	27.4	-161.1	28.5
C0037	C0048	D3		6	6000	5.56M C-S.doc		47.5	12	18	26.7	32.7	-163.3	24.6
C0037	C0048	D4		1		36M C-S.doc		53.5	11.6	17.6	36	42	-160.1	24.6
C0037	C0048		A1	1		TV C-S.doc	2000	53.5	13.4	19.4	35.8	41.8	-147.6	24.6
C0049	C0060	D1		240	150	146k S-C.doc		47.5	-7.5	-1.5	11.6	17.6	-160.4	24.6
C0049	C0060	D2		22	1636	1.56M S-C.doc		47.5	2.8	8.8	21.9	27.9	-160.4	28.5
C0049	C0060	D3		6	6000	5.56M S-C.doc		47.5	12	18	27.2	33.2	-160.7	24.6
C0049	C0060	D4		1		36M S-C.doc		53.5	13.5	19.5	37.8	43.8	-158.2	24.6
C0049	C0060		A1	1		TV S-C.doc	2000	53.5	15.5	21.5	37.8	43.8	-145.6	24.6
K0001	K0018	D1		240	150	146k N-N.doc		43.2	-6.5	-0.5	19.2	25.2		32.8
K0001	K0018	D2		22	1636	1.56M N-N.doc		51.2	3.8	9.8	29.5	35.5		29.2
K0001	K0018	D3		6	6000	5.56M N-N.doc		53	7.8	13.8	35.3	41.3		31.1
K0001	K0018	D4		1		36M N-N.doc		54.7	15.3	21.3	44.2	50.2		21.3

K0001	K0018		A1	1		TV N-N.doc	2000	54.7	15.3	21.3	44.2	50.2		28.7
K0019	K0030	D1		240	150	146k HM-HM.d		43.2	-4.5	1.5	18	24		32.8
K0019	K0030	D2		22	1636	1.56M HM-HM.		51.2	3.8	9.8	28.3	34.3		29.2
K0019	K0030	D3		6	6000	5.56M HM-HM.		53	7.8	13.8	34.1	40.1		31.1
K0019	K0030	D4		1		36M HM-HM.do		54.7	19.1	25.1	44.9	50.9		21.3
K0019	K0030		A1	1		TV HM-HM.doc	2000	54.7	19.1	25.1	44.9	50.9		28.7
K0031	K0036	D1		240	150	146k N-HM.doc		43.2	-6.5	-0.5	18	24		32.8
K0031	K0036	D2		22	1636	1.56M N-HM.do		51.2	3.8	9.8	28.3	34.3		29.2
K0031	K0036	D3		6	6000	5.56M N-HM.do		53	7.8	13.8	34.1	40.1		31.1
K0031	K0036	D4		1		36M N-HM.doc		54.7	19.1	25.1	44.9	50.9		21.3
K0031	K0036		A1	1		TV N-HM.doc	2000	54.7	19.1	25.1	44.9	50.9		28.7
K0037	K0042	D1		240	150	146k HM-N.doc		43.2	-4.5	1.5	19.2	25.2		32.8
K0037	K0042	D2		22	1636	1.56M HM-N.do		51.2	3.8	9.8	29.5	35.5		29.2
K0037	K0042	D3		6	6000	5.56M HM-N.do		53	7.8	13.8	44.2	50.2		31.1
K0037	K0042	D4		1		36M HM-N.doc		54.7	15.3	21.3	44.2	50.2		21.3
K0037	K0042		A1	1		TV HM-N.doc	2000	54.7	15.3	21.3	44.2	50.2		28.7

**FEDERAL COMMUNICATIONS COMMISSION
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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

**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): 2310	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): 5456	S15f. Length (m): 31.1	S15i. Payload: 0.85
S15d. Mass of fuel, in orbit, at beginning of life (kg): 1077	S15g. Width (m): 4.5	S15j. Bus: 0.87
S15e. Deployed Area of Solar Array (square meters): 31.5	S15h. Height (m): 9.1	S15k. Total: 0.74

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): 9330	(f): 9330	(k): 9330	(p): 9330
Bus (Watts):	(b): 1076	(g): 820	(l): 1076	(q): 819
Total (Watts):	(c): 10406	(h): 10150	(m): 10406	(r): 10149
Solar Array (Watts):	(d): 13694	(i): 11687	(n): 12388	(s): 10664
Depth of Battery Discharge (%):	(e) 78 %	(j) 78 %	(o) 78 %	(t) 78 %

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.