

S1. GENERAL INFORMATION Complete for all satellite applications.

a. Space Station or Satellite Network Name: NSS-703		e. Estimated Date of Placement into Service: 10/9/1994		i. Will the space station(s) operate on a Common Carrier Basis: N	
b. Construction Commencement Date:		f. Estimated Lifetime of Satellite(s): 20 Years		j. Number of transponders offered on a common carrier basis: 0	
c. Construction Completion Date:		g. Total Number of Transponders: 44		k. Total Common Carrier Transponder Bandwidth: 0 MHz	
d1. Est Launch Date Begin: 10/9/1994	d2. Est Launch Date End: 10/9/1994	h. Total Transponder Bandwidth (no. transponders x Bandwidth) 2947 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	Nature of Service(s): List all that apply to this band	f.
Lower Frequency (.Hz)		Upper Frequency (.Hz)				
a. Numeric	b. Unit (K/M/G)	c. Numeric	d. Unit (K/M/G)			
3700	M	4200	M	T	Fixed Satellite Service	
5925	M	6425	M	R	Fixed Satellite Service	
10950	M	11200	M	T	Fixed Satellite Service	
11450	M	11700	M	T	Fixed Satellite Service	
11700	M	11950	M	T	Fixed Satellite Service	
12500	M	12750	M	T	Fixed Satellite Service	
14000	M	14500	M	R	Fixed Satellite Service	

S3. ORBITAL INFORMATION FOR GEOSTATIONARY SATELLITES ONLY:

a. Nominal Orbital Longitude (Degrees E/W): 47.05 W		b. Alternate Orbital Longitude (Degrees E/W):		c. Reason for orbital location selection: To provide fixed satellite services in C-band and Ku-band to users located in various countries in ITU Regions 1 and 2.			
Longitudinal Tolerance or E/W Station-Keeping:		f. Inclination Excursion or N/S Station-Keeping Tolerance:				Range of orbital are 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.
GLB	S		Global
EH	S		Europe and Africa
NEZ	S		Europe and Northern Africa
SEZ	S		Southern Africa
WH	S		North and South America
NWZ	S		North America, and Northwestern region of South America
SWZ	S		Southern half of South America
CSA	S		South America and parts of Caribbean
CSB	S		South America and parts of Caribbean
KS1	S		North Atlantic Ocean
KS2	S		Eastern region of CONUS, Caribbean, and parts of mid-Atlantic ocean
KS3	S		Brazil

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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														
GAU	R	20.31	17.31	0.19	0.34	35	N		GLB				562	-7.19	-91	14	1
GBU	R	20.31	17.31	0.19	0.34	35	N		GLB				589	-7.39	-91	14	1
EHU	R	23.53	17.53	0.19	0.34	27	N		EH				513	-3.57	-90	14	1
NEZ	R	27.91	21.91	0.19	0.34	27	N		NEZ				501	0.91	-94	14	1
SEZ	R	25.93	19.93	0.19	0.34	27	N		SEZ				525	-1.27	-92	14	1
WHU	R	25.9	19.9	0.19	0.34	27	N		WH				525	-1.3	-92	14	1
NWZ	R	26.74	18.74	0.19	0.34	27	N		NWZ				513	-0.36	-93	14	1
SWZ	R	28.04	20.04	0.19	0.34	27	N		SWZ				501	1.04	-95	14	1
CSA	R	30.3	24.3	0.19	0.34	27	N		CSA				575	2.7	-96	14	1
CSB	R	30.28	24.28	0.19	0.34	27	N		CSB				575	2.68	-96	14	1
KS1U	R	36.95	29.95	0.19	0.34	17	Y	90	KS1				644	8.86	-94	14	1
KS2U	R	34.9	26.9	0.19	0.34	17	Y	0	KS2				676	6.6	-92	14	1
KS3U	R	37.85	30.85	0.19	0.34	17	Y	90	KS3				708	9.35	-95	14	1
GAD	T	20.4	17.4	0.19	0.34	35	N		GLA	1.7	21.9	33.8					
GBD	T	20.4	17.4	0.19	0.34	35	N		GLB	1.7	23.4	34.1					
EHD	T	24.13	18.13	0.19	0.34	27	N		EH	1.7	21.9	37.5					
NEZ	T	28.43	22.43	0.19	0.34	27	N		NEZ	1.7	6.6	36.6					
SEZ	T	26.72	20.72	0.19	0.34	27	N		SEZ	1.7	11.7	37.4					
WHD	T	27	21	0.19	0.34	27	N		WH	1.7	16.6	39.2					
NWZ	T	28.53	20.53	0.19	0.34	27	N		NWZ	1.7	11.7	39.2					
SWZ	T	30.75	22.75	0.19	0.34	27	N		SWZ	1.7	6.8	39					
CSA	T	28.1	22.1	0.19	0.34	27	N		CSA	1.7	11	38.5					
CSB	T	28.1	22.1	0.19	0.34	27	N		CSB	1.7	11.5	38.7					
KS1D	T	35.9	28.9	0.19	0.34	17	Y	0	KS1	1.7	36.3	51.5					
KS2D	T	34.41	26.41	0.19	0.34	17	Y	90	KS2	1.7	24	48.2					
KS3D	T	36.56	29.56	0.19	0.34	17	Y	0	KS3	1.7	28.4	51.1					
CMD	R	8.3	5.7	0.19	0.34	27	N		GLB				4786	-28.5	-90		
TLM	T	16.5	13.9	0.19	0.34	27	N		GLB	3	0.15	8.2					
BNC	T	10.7	8.1	0.19	0.34	27	N		GLB	3	1.2	11.5					

BNK1	T	16.7	14.1	0.19	0.34	17	N		GLB	3	0.13	8					
BNK2	T	16.7	14.1	0.19	0.34	17	N		GLB	3	1.35	18					
BNK3	T	36.2	29.2	0.19	0.34	17	Y	0	KS1	3	0.02	18					
BNK4	T	34.5	26.5	0.19	0.34	17	Y	90	KS2	3	0.02	18					
BNK5	T	32.7	25.7	0.19	0.34	17	Y	0	KS3	3	0.03	18					
TLMB	T	-5.3	-6.3	0.19	0.34	27	N		GLB	3	0.25	0.7					

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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
GAU	R	C	-47.05		GAU.gxt					
GBU	R	C	-47.05		GBU.gxt					
EHU	R	C	-47.05		EHU.gxt					
NEZ	R	C	-47.05		NEZU.gxt					
SEZ	R	C	-47.05		SEZU.gxt					
WHU	R	C	-47.05		WHU.gxt					
NWZ	R	C	-47.05		NWZU.gxt					
SWZ	R	C	-47.05		SWZU.gxt					
CSA	R	C	-47.05		CSAU.gxt					
CSB	R	C	-47.05		CSBU.gxt					
KS1U	R	C	-47.05		KS1U.gxt					
KS2U	R	C	-47.05		KS2U.gxt					
KS3U	R	C	-47.05		KS3U.gxt					
GAD	T	C	-47.05		GAD.gxt	-159.1	-158.9	-158.5	-158.3	-158
GBD	T	C	-47.05		GBD.gxt	-159	-158.8	-158.5	-158.2	-158
EHD	T	C	-47.05		EHD.gxt	-156.2	-155.6	-154.9	-154.1	-153.9
NEZ	T	C	-47.05		NEZD.gxt	-154	-153.8	-153.5	-153.4	-153.3
SEZ	T	C	-47.05		SEZD.gxt	-154.2	-154	-153.8	-153.5	-153.3
WHD	T	C	-47.05		WHD.gxt	-154.4	-154.3	-154.1	-154	-153.3
NWZ	T	C	-47.05		NWZD.gxt	-159.4	-158.7	-157.6	-156.2	-155
SWZ	T	C	-47.05		SWZD.gxt	-160.8	-160.2	-159.4	-158.3	-156.8
CSA	T	C	-47.05		CSAD.gxt	-162.9	-162.5	-161.8	-160.7	-159.6
CSB	T	C	-47.05		CSBD.gxt	-162.1	-161.6	-161	-160.1	-159.2
KS1D	T	C	-47.05		KS1D.gxt	-154.1	-153.4	-152.3	-150.9	-149.2
KS2D	T	C	-47.05		KS2D.gxt	-166.4	-165.8	-164.8	-161.7	-159.6
KS3D	T	C	-47.05		KS3D.gxt	-177.5	-179.1	-177.9	-176.1	-174.2
CMD	R	C	-47.05		CMD.GXT					
TLM	T	C	-47.05		TLMO.GXT	-173.1	-173	-172.8	-172.7	-172.6

BNC	T	C	-47.05		BNC.GXT	-159.5	-159.4	-159.2	-159.1	-159.3
BNK1	T	C	-47.05		BNK1.GXT	-163.3	-163.2	-163	-162.9	-162.8
BNK2	T	C	-47.05		BNK2.GXT	-151.1	-151	-150.8	-150.7	-152.8
BNK3	T	C	-47.05		BNK3.GXT	-151.2	-151.1	-150.9	-150.8	-152.8
BNK4	T	C	-47.05		BNK4.GXT	-153	-152.9	-152.7	-152.6	-152.8
BNK5	T	C	-47.05		BNK5.GXT	-151.5	-151.4	-151.2	-151.1	-152.8
TLMB	T	C	-47.05		TLMB.GXT	-180.6	-180.5	-180.3	-180.2	-180.1

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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)
CSAUA	36000	R	6280	L	C
CSAUB	36000	R	6320	L	C
CSAUC	36000	R	6360	L	C
CSAUD	41000	R	6402.5	L	C
CSBUA	36000	R	6280	R	C
CSBUB	36000	R	6320	R	C
CSBUC	36000	R	6360	R	C
CSBUD	41000	R	6402.5	R	C
EHUA	77000	R	5967.5	L	C
EHUB	72000	R	6050	L	C
EHUC	34000	R	6111	L	C
EHUD	34000	R	6149	L	C
EHUE	72000	R	6220	L	C
EHUF	36000	R	6280	L	C
GAUA	36000	R	6280	L	C
GAUB	36000	R	6320	L	C
GAUC	36000	R	6360	L	C
GAUD	41000	R	6402.5	L	C
GBUA	36000	R	6280	R	C
GBUB	36000	R	6320	R	C
GBUC	36000	R	6360	R	C
GBUD	41000	R	6402.5	R	C
NEZUA	77000	R	5967.5	R	C
NEZUB	72000	R	6050	R	C
NEZUC	34000	R	6111	R	C
NEZUD	34000	R	6149	R	C
NEZUE	72000	R	6220	R	C
NEZUF	36000	R	6280	R	C
NWZUA	77000	R	5967.5	R	C
NWZUB	72000	R	6050	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
1	115.2	CSAUA	CSAU	CSADA	CSAD
2	118.2	CSAUA	CSAU	EHDF	EHD
3	118.2	CSAUA	CSAU	GADA	GAD
4	115.3	CSAUB	CSAU	CSADB	CSAD
5	118.3	CSAUB	CSAU	GADB	GAD
6	115.3	CSAUC	CSAU	CSADC	CSAD
7	118.3	CSAUC	CSAU	GADC	GAD
8	115.4	CSAUD	CSAU	CSADD	CSAD
9	118.4	CSAUD	CSAU	GADD	GAD
10	115.4	CSBUA	CSBU	CSBDA	CSBD
11	118.5	CSBUA	CSBU	GBDA	GBD
12	117	CSBUA	CSBU	WHDF	WHD
13	115.5	CSBUB	CSBU	CSBDB	CSBD
14	118.6	CSBUB	CSBU	GBDB	GBD
15	115.5	CSBUC	CSBU	CSBDC	CSBD
16	118.6	CSBUC	CSBU	GBDC	GBD
17	115.6	CSBUD	CSBU	CSBDD	CSBD
18	118.7	CSBUD	CSBU	GBDD	GBD
19	118.5	EHUA	EHU	EHDA	EHD
20	120.7	EHUA	EHU	KS1DA	KS1D
21	120.7	EHUA	EHU	KS1DH	KS1D
22	120.7	EHUA	EHU	KS1DL	KS1D
23	118.9	EHUA	EHU	KS2DA	KS2D
24	118.9	EHUA	EHU	KS2DH	KS2D
25	118.9	EHUA	EHU	KS2DL	KS2D
26	119.6	EHUA	EHU	KS3DA	KS3D
27	119.6	EHUA	EHU	KS3DH	KS3D
28	119.6	EHUA	EHU	KS3DL	KS3D
29	113.3	EHUA	EHU	NEZDA	NEZD
30	115.8	EHUA	EHU	NWZDA	NWZD

NWZUC	34000	R	6111	R	C
NWZUD	34000	R	6149	R	C
NWZUE	72000	R	6220	R	C
NWZUF	36000	R	6280	R	C
SEZUA	77000	R	5967.5	R	C
SEZUB	72000	R	6050	R	C
SEZUC	34000	R	6111	R	C
SEZUD	34000	R	6149	R	C
SEZUE	72000	R	6220	R	C
SEZUF	36000	R	6280	R	C
SWZUA	77000	R	5967.5	R	C
SWZUB	72000	R	6050	R	C
SWZUC	34000	R	6111	R	C
SWZUD	34000	R	6149	R	C
SWZUE	72000	R	6220	R	C
SWZUF	36000	R	6280	R	C
WHUA	77000	R	5967.5	L	C
WHUB	72000	R	6050	L	C
WHUC	34000	R	6111	L	C
WHUD	34000	R	6149	L	C
WHUE	72000	R	6220	L	C
WHUF	36000	R	6280	L	C
KS1UA	77000	R	14042.5	H	C
KS1UB	72000	R	14125	H	C
KS1UC	34000	R	14186	H	C
KS1UD	34000	R	14224	H	C
KS1UE	72000	R	14295	H	C
KS1UF	112000	R	14314	H	C
KS1UG	112000	R	14438	H	C
KS2UA	77000	R	14042.5	V	C
KS2UB	72000	R	14125	V	C
KS2UC	34000	R	14186	V	C
KS2UD	34000	R	14224	V	C
KS2UE	72000	R	14295	V	C
KS2UF	112000	R	14314	V	C
KS2UG	112000	R	14438	V	C
KS3UA	77000	R	14042.5	H	C
KS3UB	72000	R	14125	H	C
KS3UC	34000	R	14186	H	C

31	115.8	EHUA	EHU	SEZDA	SEZD
32	113.4	EHUA	EHU	SWZDA	SWZD
33	117.3	EHUA	EHU	WHDA	WHD
34	118.7	EHUB	EHU	EHDB	EHD
35	120.9	EHUB	EHU	KS1DB	KS1D
36	120.9	EHUB	EHU	KS1DI	KS1D
37	120.9	EHUB	EHU	KS1DM	KS1D
38	119.1	EHUB	EHU	KS2DB	KS2D
39	119.1	EHUB	EHU	KS2DI	KS2D
40	119.1	EHUB	EHU	KS2DM	KS2D
41	119.8	EHUB	EHU	KS3DB	KS3D
42	119.8	EHUB	EHU	KS3DI	KS3D
43	119.8	EHUB	EHU	KS3DM	KS3D
44	113.5	EHUB	EHU	NEZDB	NEZD
45	116	EHUB	EHU	NWZDB	NWZD
46	116	EHUB	EHU	SEZDB	SEZD
47	113.6	EHUB	EHU	SWZDB	SWZD
48	117.5	EHUB	EHU	WHDB	WHD
49	118.7	EHUC	EHU	EHDC	EHD
50	120.9	EHUC	EHU	KS1DC	KS1D
51	120.9	EHUC	EHU	KS1DJ	KS1D
52	120.9	EHUC	EHU	KS1DN	KS1D
53	119.1	EHUC	EHU	KS2DC	KS2D
54	119.1	EHUC	EHU	KS2DJ	KS2D
55	119.1	EHUC	EHU	KS2DN	KS2D
56	119.8	EHUC	EHU	KS3DC	KS3D
57	119.8	EHUC	EHU	KS3DJ	KS3D
58	119.8	EHUC	EHU	KS3DN	KS3D
59	113.5	EHUC	EHU	NEZDC	NEZD
60	116	EHUC	EHU	NWZDC	NWZD
61	116	EHUC	EHU	SEZDC	SEZD
62	113.6	EHUC	EHU	SWZDC	SWZD
63	117.5	EHUC	EHU	WHDC	WHD
64	118.8	EHUD	EHU	EHDD	EHD
65	121	EHUD	EHU	KS1DD	KS1D
66	121	EHUD	EHU	KS1DK	KS1D
67	121	EHUD	EHU	KS1DP	KS1D
68	119.2	EHUD	EHU	KS2DD	KS2D
69	119.2	EHUD	EHU	KS2DK	KS2D

KS3UD	34000	R	14224	H	C
KS3UE	72000	R	14295	H	C
KS3UF	112000	R	14314	H	C
KS3UG	112000	R	14438	H	C
CSADA	36000	T	4055	R	C
CSADB	36000	T	4095	R	C
CSADC	36000	T	4135	R	C
CSADD	41000	T	4177.5	R	C
CSBDA	36000	T	4055	L	C
CSBDB	36000	T	4095	L	C
CSBDC	36000	T	4135	L	C
CSBDD	41000	T	4177.5	L	C
EHDA	77000	T	3742.5	R	C
EHDB	72000	T	3825	R	C
EHDC	34000	T	3886	R	C
EHDD	34000	T	3924	R	C
EHDE	72000	T	3995	R	C
EHDF	36000	T	4055	R	C
GADA	36000	T	4055	R	C
GADB	36000	T	4095	R	C
GADC	36000	T	4135	R	C
GADD	41000	T	4177.5	R	C
GBDA	36000	T	4055	L	C
GBDB	36000	T	4095	L	C
GBDC	36000	T	4135	L	C
GBDD	41000	T	4177.5	L	C
NEZDA	77000	T	3742.5	L	C
NEZDB	72000	T	3825	L	C
NEZDC	34000	T	3886	L	C
NEZDD	34000	T	3924	L	C
NEZDE	72000	T	3995	L	C
NEZDF	36000	T	4055	L	C
NWZDA	77000	T	3742.5	L	C
NWZDB	72000	T	3825	L	C
NWZDC	34000	T	3886	L	C
NWZDD	34000	T	3924	L	C
NWZDE	72000	T	3995	L	C
NWZDF	36000	T	4055	L	C
SEZDA	77000	T	3742.5	L	C

70	119.2	EHUD	EHU	KS2DP	KS2D
71	119.9	EHUD	EHU	KS3DD	KS3D
72	119.9	EHUD	EHU	KS3DK	KS3D
73	119.9	EHUD	EHU	KS3DP	KS3D
74	113.6	EHUD	EHU	NEZDD	NEZD
75	116.1	EHUD	EHU	NWZDD	NWZD
76	116.1	EHUD	EHU	SEZDD	SEZD
77	113.7	EHUD	EHU	SWZDD	SWZD
78	117.6	EHUD	EHU	WHDD	WHD
79	118.9	EHUE	EHU	EHDE	EHD
80	121.1	EHUE	EHU	KS1DE	KS1D
81	121.1	EHUE	EHU	KS1DE	KS1D
82	121.1	EHUE	EHU	KS1DE	KS1D
83	119.3	EHUE	EHU	KS2DE	KS2D
84	119.3	EHUE	EHU	KS2DE	KS2D
85	119.3	EHUE	EHU	KS2DE	KS2D
86	120	EHUE	EHU	KS3DE	KS3D
87	120	EHUE	EHU	KS3DE	KS3D
88	120	EHUE	EHU	KS3DE	KS3D
89	113.7	EHUE	EHU	NEZDE	NEZD
90	116.2	EHUE	EHU	NWZDE	NWZD
91	116.2	EHUE	EHU	SEZDE	SEZD
92	113.8	EHUE	EHU	SWZDE	SWZD
93	117.7	EHUE	EHU	WHDE	WHD
94	116	EHUF	EHU	CSADA	CSAD
95	119	EHUF	EHU	EHDF	EHD
96	119	EHUF	EHU	GADA	GAD
97	113.8	EHUF	EHU	NEZDF	NEZD
98	116.3	EHUF	EHU	NWZDF	NWZD
99	116.3	EHUF	EHU	SEZDF	SEZD
100	113.9	EHUF	EHU	SWZDF	SWZD
101	117.8	EHUF	EHU	WHDF	WHD
102	120.2	GAUA	GAU	CSADA	CSAD
103	123.2	GAUA	GAU	EHDF	EHD
104	123.2	GAUA	GAU	GADA	GAD
105	120.3	GAUB	GAU	CSADB	CSAD
106	123.3	GAUB	GAU	GADB	GAD
107	120.3	GAUC	GAU	CSADC	CSAD
108	123.3	GAUC	GAU	GADC	GAD

SEZDB	72000	T	3825	L	C
SEZDC	34000	T	3886	L	C
SEZDD	34000	T	3924	L	C
SEZDE	72000	T	3995	L	C
SEZDF	36000	T	4055	L	C
SWZDA	77000	T	3742.5	L	C
SWZDB	72000	T	3825	L	C
SWZDC	34000	T	3886	L	C
SWZDD	34000	T	3924	L	C
SWZDE	72000	T	3995	L	C
SWZDF	36000	T	4055	L	C
WHDA	77000	T	3742.5	R	C
WHDB	72000	T	3825	R	C
WHDC	34000	T	3886	R	C
WHDD	34000	T	3924	R	C
WHDE	72000	T	3995	R	C
WHDF	36000	T	4055	R	C
KS1DA	77000	T	10992.5	V	C
KS1DB	72000	T	11075	V	C
KS1DC	34000	T	11136	V	C
KS1DD	34000	T	11174	V	C
KS1DE	72000	T	11495	V	C
KS1DF	112000	T	11514	V	C
KS1DG	112000	T	11638	V	C
KS1DH	77000	T	11747.5	V	C
KS1DI	72000	T	11830	V	C
KS1DJ	34000	T	11891	V	C
KS1DK	34000	T	11929	V	C
KS1DL	77000	T	12547.5	V	C
KS1DM	72000	T	12630	V	C
KS1DN	34000	T	12691	V	C
KS1DP	34000	T	12729	V	C
KS2DA	77000	T	10992.5	H	C
KS2DB	72000	T	11075	H	C
KS2DC	34000	T	11136	H	C
KS2DD	34000	T	11174	H	C
KS2DE	72000	T	11495	H	C
KS2DF	112000	T	11514	H	C
KS2DG	112000	T	11638	H	C

109	120.4	GAUD	GAU	CSADD	CSAD
110	123.4	GAUD	GAU	GADD	GAD
111	120.4	GBUA	GBU	CSBDA	CSBD
112	123.5	GBUA	GBU	GBDA	GBD
113	122	GBUA	GBU	WHDF	WHD
114	120.5	GBUB	GBU	CSBDB	CSBD
115	123.6	GBUB	GBU	GBDB	GBD
116	120.5	GBUC	GBU	CSBDC	CSBD
117	123.6	GBUC	GBU	GBDC	GBD
118	120.6	GBUD	GBU	CSBDD	CSBD
119	123.7	GBUD	GBU	GBDD	GBD
120	116.5	KS1UA	KS1U	EHDA	EHD
121	118.7	KS1UA	KS1U	KS1DA	KS1D
122	118.7	KS1UA	KS1U	KS1DH	KS1D
123	118.7	KS1UA	KS1U	KS1DL	KS1D
124	116.9	KS1UA	KS1U	KS2DA	KS2D
125	116.9	KS1UA	KS1U	KS2DH	KS2D
126	116.9	KS1UA	KS1U	KS2DL	KS2D
127	117.6	KS1UA	KS1U	KS3DA	KS3D
128	117.6	KS1UA	KS1U	KS3DH	KS3D
129	117.6	KS1UA	KS1U	KS3DL	KS3D
130	111.3	KS1UA	KS1U	NEZDA	NEZD
131	113.8	KS1UA	KS1U	NWZDA	NWZD
132	113.8	KS1UA	KS1U	SEZDA	SEZD
133	111.4	KS1UA	KS1U	SWZDA	SWZD
134	115.3	KS1UA	KS1U	WHDA	WHD
135	116.6	KS1UB	KS1U	EHDB	EHD
136	118.8	KS1UB	KS1U	KS1DB	KS1D
137	118.8	KS1UB	KS1U	KS1DI	KS1D
138	118.8	KS1UB	KS1U	KS1DM	KS1D
139	117	KS1UB	KS1U	KS2DB	KS2D
140	117	KS1UB	KS1U	KS2DI	KS2D
141	117	KS1UB	KS1U	KS2DM	KS2D
142	117.7	KS1UB	KS1U	KS3DB	KS3D
143	117.7	KS1UB	KS1U	KS3DI	KS3D
144	117.7	KS1UB	KS1U	KS3DM	KS3D
145	111.4	KS1UB	KS1U	NEZDB	NEZD
146	113.9	KS1UB	KS1U	NWZDB	NWZD
147	113.9	KS1UB	KS1U	SEZDB	SEZD

KS2DH	77000	T	11747.5	H	C
KS2DI	72000	T	11830	H	C
KS2DJ	34000	T	11891	H	C
KS2DK	34000	T	11929	H	C
KS2DL	77000	T	12547.5	H	C
KS2DM	72000	T	12630	H	C
KS2DN	34000	T	12691	H	C
KS2DP	34000	T	12729	H	C
KS3DA	77000	T	10992.5	V	C
KS3DB	72000	T	11075	V	C
KS3DC	34000	T	11136	V	C
KS3DD	34000	T	11174	V	C
KS3DE	72000	T	11495	V	C
KS3DF	112000	T	11514	V	C
KS3DG	112000	T	11638	V	C
KS3DH	77000	T	11747.5	V	C
KS3DI	72000	T	11830	V	C
KS3DJ	34000	T	11891	V	C
KS3DK	34000	T	11929	V	C
KS3DL	77000	T	12547.5	V	C
KS3DM	72000	T	12630	V	C
KS3DN	34000	T	12691	V	C
KS3DP	34000	T	12729	V	C
CMD1	1000	R	6173.7	L	T
CMD2	1000	R	6176.3	L	T
TM1	500	T	3947.5	R	T
TM2	500	T	3948	R	T
TM3	500	T	3952.5	R	T
TM4	500	T	3952	R	T
BC1	25	T	3950	V	T
BK1	25	T	11198	R	T
BK2	25	T	11452	R	T
BK3	25	T	11701	V	T
BK4	25	T	11701	H	T
BK5	25	T	11701	V	T
BK6	25	T	12501	V	T
BK7	25	T	12501	H	T
BK8	25	T	12501	V	T

148	111.5	KS1UB	KS1U	SWZDB	SWZD
149	115.4	KS1UB	KS1U	WHDB	WHD
150	116.6	KS1UC	KS1U	EHDC	EHD
151	118.8	KS1UC	KS1U	KS1DC	KS1D
152	118.8	KS1UC	KS1U	KS1DJ	KS1D
153	118.8	KS1UC	KS1U	KS1DN	KS1D
154	117	KS1UC	KS1U	KS2DC	KS2D
155	117	KS1UC	KS1U	KS2DJ	KS2D
156	117	KS1UC	KS1U	KS2DN	KS2D
157	117.7	KS1UC	KS1U	KS3DC	KS3D
158	117.7	KS1UC	KS1U	KS3DJ	KS3D
159	117.7	KS1UC	KS1U	KS3DN	KS3D
160	111.4	KS1UC	KS1U	NEZDC	NEZD
161	113.9	KS1UC	KS1U	NWZDC	NWZD
162	113.9	KS1UC	KS1U	SEZDC	SEZD
163	111.5	KS1UC	KS1U	SWZDC	SWZD
164	115.4	KS1UC	KS1U	WHDC	WHD
165	116.7	KS1UD	KS1U	EHDD	EHD
166	118.9	KS1UD	KS1U	KS1DD	KS1D
167	118.9	KS1UD	KS1U	KS1DK	KS1D
168	118.9	KS1UD	KS1U	KS1DP	KS1D
169	117.1	KS1UD	KS1U	KS2DD	KS2D
170	117.1	KS1UD	KS1U	KS2DK	KS2D
171	117.1	KS1UD	KS1U	KS2DP	KS2D
172	117.8	KS1UD	KS1U	KS3DD	KS3D
173	117.8	KS1UD	KS1U	KS3DK	KS3D
174	117.8	KS1UD	KS1U	KS3DP	KS3D
175	111.5	KS1UD	KS1U	NEZDD	NEZD
176	114	KS1UD	KS1U	NWZDD	NWZD
177	114	KS1UD	KS1U	SEZDD	SEZD
178	111.6	KS1UD	KS1U	SWZDD	SWZD
179	115.5	KS1UD	KS1U	WHDD	WHD
180	116.7	KS1UE	KS1U	EHDE	EHD
181	111.5	KS1UE	KS1U	NEZDE	NEZD
182	114	KS1UE	KS1U	NWZDE	NWZD
183	114	KS1UE	KS1U	SEZDE	SEZD
184	111.6	KS1UE	KS1U	SWZDE	SWZD
185	115.5	KS1UE	KS1U	WHDE	WHD
186	118.9	KS1UF	KS1U	KS1DF	KS1D

187	117.1	KS1UF	KS1U	KS2DF	KS2D
188	117.8	KS1UF	KS1U	KS3DF	KS3D
189	119	KS1UG	KS1U	KS1DG	KS1D
190	117.2	KS1UG	KS1U	KS2DG	KS2D
191	117.9	KS1UG	KS1U	KS3DG	KS3D
192	118.5	KS2UA	KS2U	EHDA	EHD
193	120.7	KS2UA	KS2U	KS1DA	KS1D
194	120.7	KS2UA	KS2U	KS1DH	KS1D
195	120.7	KS2UA	KS2U	KS1DL	KS1D
196	118.9	KS2UA	KS2U	KS2DA	KS2D
197	118.9	KS2UA	KS2U	KS2DH	KS2D
198	118.9	KS2UA	KS2U	KS2DL	KS2D
199	119.6	KS2UA	KS2U	KS3DA	KS3D
200	119.6	KS2UA	KS2U	KS3DH	KS3D
201	119.6	KS2UA	KS2U	KS3DL	KS3D
202	113.3	KS2UA	KS2U	NEZDA	NEZD
203	115.8	KS2UA	KS2U	NWZDA	NWZD
204	115.8	KS2UA	KS2U	SEZDA	SEZD
205	113.4	KS2UA	KS2U	SWZDA	SWZD
206	117.3	KS2UA	KS2U	WHDA	WHD
207	118.5	KS2UB	KS2U	EHDB	EHD
208	120.7	KS2UB	KS2U	KS1DB	KS1D
209	120.7	KS2UB	KS2U	KS1DI	KS1D
210	120.7	KS2UB	KS2U	KS1DM	KS1D
211	118.9	KS2UB	KS2U	KS2DB	KS2D
212	118.9	KS2UB	KS2U	KS2DI	KS2D
213	118.9	KS2UB	KS2U	KS2DM	KS2D
214	119.6	KS2UB	KS2U	KS3DB	KS3D
215	119.6	KS2UB	KS2U	KS3DI	KS3D
216	119.6	KS2UB	KS2U	KS3DM	KS3D
217	113.3	KS2UB	KS2U	NEZDB	NEZD
218	115.8	KS2UB	KS2U	NWZDB	NWZD
219	115.8	KS2UB	KS2U	SEZDB	SEZD
220	113.4	KS2UB	KS2U	SWZDB	SWZD
221	117.3	KS2UB	KS2U	WHDB	WHD
222	118.6	KS2UC	KS2U	EHDC	EHD
223	120.8	KS2UC	KS2U	KS1DC	KS1D
224	120.8	KS2UC	KS2U	KS1DJ	KS1D
225	120.8	KS2UC	KS2U	KS1DN	KS1D

226	119	KS2UC	KS2U	KS2DC	KS2D
227	119	KS2UC	KS2U	KS2DJ	KS2D
228	119	KS2UC	KS2U	KS2DN	KS2D
229	119.7	KS2UC	KS2U	KS3DC	KS3D
230	119.7	KS2UC	KS2U	KS3DJ	KS3D
231	119.7	KS2UC	KS2U	KS3DN	KS3D
232	113.4	KS2UC	KS2U	NEZDC	NEZD
233	115.9	KS2UC	KS2U	NWZDC	NWZD
234	115.9	KS2UC	KS2U	SEZDC	SEZD
235	113.5	KS2UC	KS2U	SWZDC	SWZD
236	117.4	KS2UC	KS2U	WHDC	WHD
237	118.6	KS2UD	KS2U	EHDD	EHD
238	120.8	KS2UD	KS2U	KS1DD	KS1D
239	120.8	KS2UD	KS2U	KS1DK	KS1D
240	120.8	KS2UD	KS2U	KS1DP	KS1D
241	119	KS2UD	KS2U	KS2DD	KS2D
242	119	KS2UD	KS2U	KS2DK	KS2D
243	119	KS2UD	KS2U	KS2DP	KS2D
244	119.7	KS2UD	KS2U	KS3DD	KS3D
245	119.7	KS2UD	KS2U	KS3DK	KS3D
246	119.7	KS2UD	KS2U	KS3DP	KS3D
247	113.4	KS2UD	KS2U	NEZDD	NEZD
248	115.9	KS2UD	KS2U	NWZDD	NWZD
249	115.9	KS2UD	KS2U	SEZDD	SEZD
250	113.5	KS2UD	KS2U	SWZDD	SWZD
251	117.4	KS2UD	KS2U	WHDD	WHD
252	118.7	KS2UE	KS2U	EHDE	EHD
253	113.5	KS2UE	KS2U	NEZDE	NEZD
254	116	KS2UE	KS2U	NWZDE	NWZD
255	116	KS2UE	KS2U	SEZDE	SEZD
256	113.6	KS2UE	KS2U	SWZDE	SWZD
257	117.5	KS2UE	KS2U	WHDE	WHD
258	120.9	KS2UF	KS2U	KS1DF	KS1D
259	119.1	KS2UF	KS2U	KS2DF	KS2D
260	119.8	KS2UF	KS2U	KS3DF	KS3D
261	120.9	KS2UG	KS2U	KS1DG	KS1D
262	119.1	KS2UG	KS2U	KS2DG	KS2D
263	119.8	KS2UG	KS2U	KS3DG	KS3D
264	116.6	KS3UA	KS3U	EHDA	EHD

265	118.8	KS3UA	KS3U	KS1DA	KS1D
266	118.8	KS3UA	KS3U	KS1DH	KS1D
267	118.8	KS3UA	KS3U	KS1DL	KS1D
268	117	KS3UA	KS3U	KS2DA	KS2D
269	117	KS3UA	KS3U	KS2DH	KS2D
270	117	KS3UA	KS3U	KS2DL	KS2D
271	117.7	KS3UA	KS3U	KS3DA	KS3D
272	117.7	KS3UA	KS3U	KS3DH	KS3D
273	117.7	KS3UA	KS3U	KS3DL	KS3D
274	111.4	KS3UA	KS3U	NEZDA	NEZD
275	113.9	KS3UA	KS3U	NWZDA	NWZD
276	113.9	KS3UA	KS3U	SEZDA	SEZD
277	111.5	KS3UA	KS3U	SWZDA	SWZD
278	115.4	KS3UA	KS3U	WHDA	WHD
279	116.7	KS3UB	KS3U	EHDB	EHD
280	118.9	KS3UB	KS3U	KS1DB	KS1D
281	118.9	KS3UB	KS3U	KS1DI	KS1D
282	118.9	KS3UB	KS3U	KS1DM	KS1D
283	117.1	KS3UB	KS3U	KS2DB	KS2D
284	117.1	KS3UB	KS3U	KS2DI	KS2D
285	117.1	KS3UB	KS3U	KS2DM	KS2D
286	117.8	KS3UB	KS3U	KS3DB	KS3D
287	117.8	KS3UB	KS3U	KS3DI	KS3D
288	117.8	KS3UB	KS3U	KS3DM	KS3D
289	111.5	KS3UB	KS3U	NEZDB	NEZD
290	114	KS3UB	KS3U	NWZDB	NWZD
291	114	KS3UB	KS3U	SEZDB	SEZD
292	111.6	KS3UB	KS3U	SWZDB	SWZD
293	115.5	KS3UB	KS3U	WHDB	WHD
294	116.7	KS3UC	KS3U	EHDC	EHD
295	118.9	KS3UC	KS3U	KS1DC	KS1D
296	118.9	KS3UC	KS3U	KS1DJ	KS1D
297	118.9	KS3UC	KS3U	KS1DN	KS1D
298	117.1	KS3UC	KS3U	KS2DC	KS2D
299	117.1	KS3UC	KS3U	KS2DJ	KS2D
300	117.1	KS3UC	KS3U	KS2DN	KS2D
301	117.8	KS3UC	KS3U	KS3DC	KS3D
302	117.8	KS3UC	KS3U	KS3DJ	KS3D
303	117.8	KS3UC	KS3U	KS3DN	KS3D

304	111.5	KS3UC	KS3U	NEZDC	NEZD
305	114	KS3UC	KS3U	NWZDC	NWZD
306	114	KS3UC	KS3U	SEZDC	SEZD
307	111.6	KS3UC	KS3U	SWZDC	SWZD
308	115.5	KS3UC	KS3U	WHDC	WHD
309	116.8	KS3UD	KS3U	EHDD	EHD
310	119	KS3UD	KS3U	KS1DD	KS1D
311	119	KS3UD	KS3U	KS1DK	KS1D
312	119	KS3UD	KS3U	KS1DP	KS1D
313	117.2	KS3UD	KS3U	KS2DD	KS2D
314	117.2	KS3UD	KS3U	KS2DK	KS2D
315	117.2	KS3UD	KS3U	KS2DP	KS2D
316	117.9	KS3UD	KS3U	KS3DD	KS3D
317	117.9	KS3UD	KS3U	KS3DK	KS3D
318	117.9	KS3UD	KS3U	KS3DP	KS3D
319	111.6	KS3UD	KS3U	NEZDD	NEZD
320	114.1	KS3UD	KS3U	NWZDD	NWZD
321	114.1	KS3UD	KS3U	SEZDD	SEZD
322	111.7	KS3UD	KS3U	SWZDD	SWZD
323	115.6	KS3UD	KS3U	WHDD	WHD
324	116.8	KS3UE	KS3U	EHDE	EHD
325	111.6	KS3UE	KS3U	NEZDE	NEZD
326	114.1	KS3UE	KS3U	NWZDE	NWZD
327	114.1	KS3UE	KS3U	SEZDE	SEZD
328	111.7	KS3UE	KS3U	SWZDE	SWZD
329	115.6	KS3UE	KS3U	WHDE	WHD
330	119	KS3UF	KS3U	KS1DF	KS1D
331	117.2	KS3UF	KS3U	KS2DF	KS2D
332	117.9	KS3UF	KS3U	KS3DF	KS3D
333	119.1	KS3UG	KS3U	KS1DG	KS1D
334	117.3	KS3UG	KS3U	KS2DG	KS2D
335	118	KS3UG	KS3U	KS3DG	KS3D
336	118.2	NEZUA	NEZU	EHDA	EHD
337	120.4	NEZUA	NEZU	KS1DA	KS1D
338	120.4	NEZUA	NEZU	KS1DH	KS1D
339	120.4	NEZUA	NEZU	KS1DL	KS1D
340	118.6	NEZUA	NEZU	KS2DA	KS2D
341	118.6	NEZUA	NEZU	KS2DH	KS2D
342	118.6	NEZUA	NEZU	KS2DL	KS2D

343	119.3	NEZUA	NEZU	KS3DA	KS3D
344	119.3	NEZUA	NEZU	KS3DH	KS3D
345	119.3	NEZUA	NEZU	KS3DL	KS3D
346	113	NEZUA	NEZU	NEZDA	NEZD
347	115.5	NEZUA	NEZU	NWZDA	NWZD
348	115.5	NEZUA	NEZU	SEZDA	SEZD
349	113.1	NEZUA	NEZU	SWZDA	SWZD
350	117	NEZUA	NEZU	WHDA	WHD
351	118.3	NEZUB	NEZU	EHDB	EHD
352	120.5	NEZUB	NEZU	KS1DB	KS1D
353	120.5	NEZUB	NEZU	KS1DI	KS1D
354	120.5	NEZUB	NEZU	KS1DM	KS1D
355	118.7	NEZUB	NEZU	KS2DB	KS2D
356	118.7	NEZUB	NEZU	KS2DI	KS2D
357	118.7	NEZUB	NEZU	KS2DM	KS2D
358	119.4	NEZUB	NEZU	KS3DB	KS3D
359	119.4	NEZUB	NEZU	KS3DI	KS3D
360	119.4	NEZUB	NEZU	KS3DM	KS3D
361	113.1	NEZUB	NEZU	NEZDB	NEZD
362	115.6	NEZUB	NEZU	NWZDB	NWZD
363	115.6	NEZUB	NEZU	SEZDB	SEZD
364	113.2	NEZUB	NEZU	SWZDB	SWZD
365	117.1	NEZUB	NEZU	WHDB	WHD
366	118.4	NEZUC	NEZU	EHDC	EHD
367	120.6	NEZUC	NEZU	KS1DC	KS1D
368	120.6	NEZUC	NEZU	KS1DJ	KS1D
369	120.6	NEZUC	NEZU	KS1DN	KS1D
370	118.8	NEZUC	NEZU	KS2DC	KS2D
371	118.8	NEZUC	NEZU	KS2DJ	KS2D
372	118.8	NEZUC	NEZU	KS2DN	KS2D
373	119.5	NEZUC	NEZU	KS3DC	KS3D
374	119.5	NEZUC	NEZU	KS3DJ	KS3D
375	119.5	NEZUC	NEZU	KS3DN	KS3D
376	113.2	NEZUC	NEZU	NEZDC	NEZD
377	115.7	NEZUC	NEZU	NWZDC	NWZD
378	115.7	NEZUC	NEZU	SEZDC	SEZD
379	113.3	NEZUC	NEZU	SWZDC	SWZD
380	117.2	NEZUC	NEZU	WHDC	WHD
381	118.4	NEZUD	NEZU	EHDD	EHD

382	120.6	NEZUD	NEZU	KS1DD	KS1D
383	120.6	NEZUD	NEZU	KS1DK	KS1D
384	120.6	NEZUD	NEZU	KS1DP	KS1D
385	118.8	NEZUD	NEZU	KS2DD	KS2D
386	118.8	NEZUD	NEZU	KS2DK	KS2D
387	118.8	NEZUD	NEZU	KS2DP	KS2D
388	119.5	NEZUD	NEZU	KS3DD	KS3D
389	119.5	NEZUD	NEZU	KS3DK	KS3D
390	119.5	NEZUD	NEZU	KS3DP	KS3D
391	113.2	NEZUD	NEZU	NEZDD	NEZD
392	115.7	NEZUD	NEZU	NWZDD	NWZD
393	115.7	NEZUD	NEZU	SEZDD	SEZD
394	113.3	NEZUD	NEZU	SWZDD	SWZD
395	117.2	NEZUD	NEZU	WHDD	WHD
396	118.5	NEZUE	NEZU	EHDE	EHD
397	120.7	NEZUE	NEZU	KS1DE	KS1D
398	120.7	NEZUE	NEZU	KS1DE	KS1D
399	120.7	NEZUE	NEZU	KS1DE	KS1D
400	118.9	NEZUE	NEZU	KS2DE	KS2D
401	118.9	NEZUE	NEZU	KS2DE	KS2D
402	118.9	NEZUE	NEZU	KS2DE	KS2D
403	119.6	NEZUE	NEZU	KS3DE	KS3D
404	119.6	NEZUE	NEZU	KS3DE	KS3D
405	119.6	NEZUE	NEZU	KS3DE	KS3D
406	113.3	NEZUE	NEZU	NEZDE	NEZD
407	115.8	NEZUE	NEZU	NWZDE	NWZD
408	115.8	NEZUE	NEZU	SEZDE	SEZD
409	113.4	NEZUE	NEZU	SWZDE	SWZD
410	117.3	NEZUE	NEZU	WHDE	WHD
411	118.6	NEZUF	NEZU	EHDF	EHD
412	113.4	NEZUF	NEZU	NEZDF	NEZD
413	115.9	NEZUF	NEZU	NWZDF	NWZD
414	115.9	NEZUF	NEZU	SEZDF	SEZD
415	113.5	NEZUF	NEZU	SWZDF	SWZD
416	117.4	NEZUF	NEZU	WHDF	WHD
417	118.3	NWZUA	NWZU	EHDA	EHD
418	120.5	NWZUA	NWZU	KS1DA	KS1D
419	120.5	NWZUA	NWZU	KS1DH	KS1D
420	120.5	NWZUA	NWZU	KS1DL	KS1D

421	118.7	NWZUA	NWZU	KS2DA	KS2D
422	118.7	NWZUA	NWZU	KS2DH	KS2D
423	118.7	NWZUA	NWZU	KS2DL	KS2D
424	119.4	NWZUA	NWZU	KS3DA	KS3D
425	119.4	NWZUA	NWZU	KS3DH	KS3D
426	119.4	NWZUA	NWZU	KS3DL	KS3D
427	113.1	NWZUA	NWZU	NEZDA	NEZD
428	115.6	NWZUA	NWZU	NWZDA	NWZD
429	115.6	NWZUA	NWZU	SEZDA	SEZD
430	113.2	NWZUA	NWZU	SWZDA	SWZD
431	117.1	NWZUA	NWZU	WHDA	WHD
432	118.4	NWZUB	NWZU	EHDB	EHD
433	120.6	NWZUB	NWZU	KS1DB	KS1D
434	120.6	NWZUB	NWZU	KS1DI	KS1D
435	120.6	NWZUB	NWZU	KS1DM	KS1D
436	118.8	NWZUB	NWZU	KS2DB	KS2D
437	118.8	NWZUB	NWZU	KS2DI	KS2D
438	118.8	NWZUB	NWZU	KS2DM	KS2D
439	119.5	NWZUB	NWZU	KS3DB	KS3D
440	119.5	NWZUB	NWZU	KS3DI	KS3D
441	119.5	NWZUB	NWZU	KS3DM	KS3D
442	113.2	NWZUB	NWZU	NEZDB	NEZD
443	115.7	NWZUB	NWZU	NWZDB	NWZD
444	115.7	NWZUB	NWZU	SEZDB	SEZD
445	113.3	NWZUB	NWZU	SWZDB	SWZD
446	117.2	NWZUB	NWZU	WHDB	WHD
447	118.5	NWZUC	NWZU	EHDC	EHD
448	120.7	NWZUC	NWZU	KS1DC	KS1D
449	120.7	NWZUC	NWZU	KS1DJ	KS1D
450	120.7	NWZUC	NWZU	KS1DN	KS1D
451	118.9	NWZUC	NWZU	KS2DC	KS2D
452	118.9	NWZUC	NWZU	KS2DJ	KS2D
453	118.9	NWZUC	NWZU	KS2DN	KS2D
454	119.6	NWZUC	NWZU	KS3DC	KS3D
455	119.6	NWZUC	NWZU	KS3DJ	KS3D
456	119.6	NWZUC	NWZU	KS3DN	KS3D
457	113.3	NWZUC	NWZU	NEZDC	NEZD
458	115.8	NWZUC	NWZU	NWZDC	NWZD
459	115.8	NWZUC	NWZU	SEZDC	SEZD

460	113.4	NWZUC	NWZU	SWZDC	SWZD
461	117.3	NWZUC	NWZU	WHDC	WHD
462	118.6	NWZUD	NWZU	EHDD	EHD
463	120.8	NWZUD	NWZU	KS1DD	KS1D
464	120.8	NWZUD	NWZU	KS1DK	KS1D
465	120.8	NWZUD	NWZU	KS1DP	KS1D
466	119	NWZUD	NWZU	KS2DD	KS2D
467	119	NWZUD	NWZU	KS2DK	KS2D
468	119	NWZUD	NWZU	KS2DP	KS2D
469	119.7	NWZUD	NWZU	KS3DD	KS3D
470	119.7	NWZUD	NWZU	KS3DK	KS3D
471	119.7	NWZUD	NWZU	KS3DP	KS3D
472	113.4	NWZUD	NWZU	NEZDD	NEZD
473	115.9	NWZUD	NWZU	NWZDD	NWZD
474	115.9	NWZUD	NWZU	SEZDD	SEZD
475	113.5	NWZUD	NWZU	SWZDD	SWZD
476	117.4	NWZUD	NWZU	WHDD	WHD
477	118.7	NWZUE	NWZU	EHDE	EHD
478	120.9	NWZUE	NWZU	KS1DE	KS1D
479	120.9	NWZUE	NWZU	KS1DE	KS1D
480	120.9	NWZUE	NWZU	KS1DE	KS1D
481	119.1	NWZUE	NWZU	KS2DE	KS2D
482	119.1	NWZUE	NWZU	KS2DE	KS2D
483	119.1	NWZUE	NWZU	KS2DE	KS2D
484	119.8	NWZUE	NWZU	KS3DE	KS3D
485	119.8	NWZUE	NWZU	KS3DE	KS3D
486	119.8	NWZUE	NWZU	KS3DE	KS3D
487	113.5	NWZUE	NWZU	NEZDE	NEZD
488	116	NWZUE	NWZU	NWZDE	NWZD
489	116	NWZUE	NWZU	SEZDE	SEZD
490	113.6	NWZUE	NWZU	SWZDE	SWZD
491	117.5	NWZUE	NWZU	WHDE	WHD
492	118.8	NWZUF	NWZU	EHDF	EHD
493	113.6	NWZUF	NWZU	NEZDF	NEZD
494	116.1	NWZUF	NWZU	NWZDF	NWZD
495	116.1	NWZUF	NWZU	SEZDF	SEZD
496	113.7	NWZUF	NWZU	SWZDF	SWZD
497	117.6	NWZUF	NWZU	WHDF	WHD
498	118.1	SEZUA	SEZU	EHDA	EHD

499	120.3	SEZUA	SEZU	KS1DA	KS1D
500	120.3	SEZUA	SEZU	KS1DH	KS1D
501	120.3	SEZUA	SEZU	KS1DL	KS1D
502	118.5	SEZUA	SEZU	KS2DA	KS2D
503	118.5	SEZUA	SEZU	KS2DH	KS2D
504	118.5	SEZUA	SEZU	KS2DL	KS2D
505	119.2	SEZUA	SEZU	KS3DA	KS3D
506	119.2	SEZUA	SEZU	KS3DH	KS3D
507	119.2	SEZUA	SEZU	KS3DL	KS3D
508	112.9	SEZUA	SEZU	NEZDA	NEZD
509	115.4	SEZUA	SEZU	NWZDA	NWZD
510	115.4	SEZUA	SEZU	SEZDA	SEZD
511	113	SEZUA	SEZU	SWZDA	SWZD
512	116.9	SEZUA	SEZU	WHDA	WHD
513	118.3	SEZUB	SEZU	EHDB	EHD
514	120.5	SEZUB	SEZU	KS1DB	KS1D
515	120.5	SEZUB	SEZU	KS1DI	KS1D
516	120.5	SEZUB	SEZU	KS1DM	KS1D
517	118.7	SEZUB	SEZU	KS2DB	KS2D
518	118.7	SEZUB	SEZU	KS2DI	KS2D
519	118.7	SEZUB	SEZU	KS2DM	KS2D
520	119.4	SEZUB	SEZU	KS3DB	KS3D
521	119.4	SEZUB	SEZU	KS3DI	KS3D
522	119.4	SEZUB	SEZU	KS3DM	KS3D
523	113.1	SEZUB	SEZU	NEZDB	NEZD
524	115.6	SEZUB	SEZU	NWZDB	NWZD
525	115.6	SEZUB	SEZU	SEZDB	SEZD
526	113.2	SEZUB	SEZU	SWZDB	SWZD
527	117.1	SEZUB	SEZU	WHDB	WHD
528	118.3	SEZUC	SEZU	EHDC	EHD
529	120.5	SEZUC	SEZU	KS1DC	KS1D
530	120.5	SEZUC	SEZU	KS1DJ	KS1D
531	120.5	SEZUC	SEZU	KS1DN	KS1D
532	118.7	SEZUC	SEZU	KS2DC	KS2D
533	118.7	SEZUC	SEZU	KS2DJ	KS2D
534	118.7	SEZUC	SEZU	KS2DN	KS2D
535	119.4	SEZUC	SEZU	KS3DC	KS3D
536	119.4	SEZUC	SEZU	KS3DJ	KS3D
537	119.4	SEZUC	SEZU	KS3DN	KS3D

538	113.1	SEZUC	SEZU	NEZDC	NEZD
539	115.6	SEZUC	SEZU	NWZDC	NWZD
540	115.6	SEZUC	SEZU	SEZDC	SEZD
541	113.2	SEZUC	SEZU	SWZDC	SWZD
542	117.1	SEZUC	SEZU	WHDC	WHD
543	118.4	SEZUD	SEZU	EHDD	EHD
544	120.6	SEZUD	SEZU	KS1DD	KS1D
545	120.6	SEZUD	SEZU	KS1DK	KS1D
546	120.6	SEZUD	SEZU	KS1DP	KS1D
547	118.8	SEZUD	SEZU	KS2DD	KS2D
548	118.8	SEZUD	SEZU	KS2DK	KS2D
549	118.8	SEZUD	SEZU	KS2DP	KS2D
550	119.5	SEZUD	SEZU	KS3DD	KS3D
551	119.5	SEZUD	SEZU	KS3DK	KS3D
552	119.5	SEZUD	SEZU	KS3DP	KS3D
553	113.2	SEZUD	SEZU	NEZDD	NEZD
554	115.7	SEZUD	SEZU	NWZDD	NWZD
555	115.7	SEZUD	SEZU	SEZDD	SEZD
556	113.3	SEZUD	SEZU	SWZDD	SWZD
557	117.2	SEZUD	SEZU	WHDD	WHD
558	118.5	SEZUE	SEZU	EHDE	EHD
559	120.7	SEZUE	SEZU	KS1DE	KS1D
560	120.7	SEZUE	SEZU	KS1DE	KS1D
561	120.7	SEZUE	SEZU	KS1DE	KS1D
562	118.9	SEZUE	SEZU	KS2DE	KS2D
563	118.9	SEZUE	SEZU	KS2DE	KS2D
564	118.9	SEZUE	SEZU	KS2DE	KS2D
565	119.6	SEZUE	SEZU	KS3DE	KS3D
566	119.6	SEZUE	SEZU	KS3DE	KS3D
567	119.6	SEZUE	SEZU	KS3DE	KS3D
568	113.3	SEZUE	SEZU	NEZDE	NEZD
569	115.8	SEZUE	SEZU	NWZDE	NWZD
570	115.8	SEZUE	SEZU	SEZDE	SEZD
571	113.4	SEZUE	SEZU	SWZDE	SWZD
572	117.3	SEZUE	SEZU	WHDE	WHD
573	118.6	SEZUF	SEZU	EHDF	EHD
574	113.4	SEZUF	SEZU	NEZDF	NEZD
575	115.9	SEZUF	SEZU	NWZDF	NWZD
576	115.9	SEZUF	SEZU	SEZDF	SEZD

577	113.5	SEZUF	SEZU	SWZDF	SWZD
578	117.4	SEZUF	SEZU	WHDF	WHD
579	119	SWZUA	SWZU	EHDA	EHD
580	121.2	SWZUA	SWZU	KS1DA	KS1D
581	121.2	SWZUA	SWZU	KS1DH	KS1D
582	121.2	SWZUA	SWZU	KS1DL	KS1D
583	119.4	SWZUA	SWZU	KS2DA	KS2D
584	119.4	SWZUA	SWZU	KS2DH	KS2D
585	119.4	SWZUA	SWZU	KS2DL	KS2D
586	120.1	SWZUA	SWZU	KS3DA	KS3D
587	120.1	SWZUA	SWZU	KS3DH	KS3D
588	120.1	SWZUA	SWZU	KS3DL	KS3D
589	113.8	SWZUA	SWZU	NEZDA	NEZD
590	116.3	SWZUA	SWZU	NWZDA	NWZD
591	116.3	SWZUA	SWZU	SEZDA	SEZD
592	113.9	SWZUA	SWZU	SWZDA	SWZD
593	117.8	SWZUA	SWZU	WHDA	WHD
594	119.1	SWZUB	SWZU	EHDB	EHD
595	121.3	SWZUB	SWZU	KS1DB	KS1D
596	121.3	SWZUB	SWZU	KS1DI	KS1D
597	121.3	SWZUB	SWZU	KS1DM	KS1D
598	119.5	SWZUB	SWZU	KS2DB	KS2D
599	119.5	SWZUB	SWZU	KS2DI	KS2D
600	119.5	SWZUB	SWZU	KS2DM	KS2D
601	120.2	SWZUB	SWZU	KS3DB	KS3D
602	120.2	SWZUB	SWZU	KS3DI	KS3D
603	120.2	SWZUB	SWZU	KS3DM	KS3D
604	113.9	SWZUB	SWZU	NEZDB	NEZD
605	116.4	SWZUB	SWZU	NWZDB	NWZD
606	116.4	SWZUB	SWZU	SEZDB	SEZD
607	114	SWZUB	SWZU	SWZDB	SWZD
608	117.9	SWZUB	SWZU	WHDB	WHD
609	119.2	SWZUC	SWZU	EHDC	EHD
610	121.4	SWZUC	SWZU	KS1DC	KS1D
611	121.4	SWZUC	SWZU	KS1DJ	KS1D
612	121.4	SWZUC	SWZU	KS1DN	KS1D
613	119.6	SWZUC	SWZU	KS2DC	KS2D
614	119.6	SWZUC	SWZU	KS2DJ	KS2D
615	119.6	SWZUC	SWZU	KS2DN	KS2D

616	120.3	SWZUC	SWZU	KS3DC	KS3D
617	120.3	SWZUC	SWZU	KS3DJ	KS3D
618	120.3	SWZUC	SWZU	KS3DN	KS3D
619	114	SWZUC	SWZU	NEZDC	NEZD
620	116.5	SWZUC	SWZU	NWZDC	NWZD
621	116.5	SWZUC	SWZU	SEZDC	SEZD
622	114.1	SWZUC	SWZU	SWZDC	SWZD
623	118	SWZUC	SWZU	WHDC	WHD
624	119.3	SWZUD	SWZU	EHDD	EHD
625	121.5	SWZUD	SWZU	KS1DD	KS1D
626	121.5	SWZUD	SWZU	KS1DK	KS1D
627	121.5	SWZUD	SWZU	KS1DP	KS1D
628	119.7	SWZUD	SWZU	KS2DD	KS2D
629	119.7	SWZUD	SWZU	KS2DK	KS2D
630	119.7	SWZUD	SWZU	KS2DP	KS2D
631	120.4	SWZUD	SWZU	KS3DD	KS3D
632	120.4	SWZUD	SWZU	KS3DK	KS3D
633	120.4	SWZUD	SWZU	KS3DP	KS3D
634	114.1	SWZUD	SWZU	NEZDD	NEZD
635	116.6	SWZUD	SWZU	NWZDD	NWZD
636	116.6	SWZUD	SWZU	SEZDD	SEZD
637	114.2	SWZUD	SWZU	SWZDD	SWZD
638	118.1	SWZUD	SWZU	WHDD	WHD
639	119.4	SWZUE	SWZU	EHDE	EHD
640	121.6	SWZUE	SWZU	KS1DE	KS1D
641	121.6	SWZUE	SWZU	KS1DE	KS1D
642	121.6	SWZUE	SWZU	KS1DE	KS1D
643	119.8	SWZUE	SWZU	KS2DE	KS2D
644	119.8	SWZUE	SWZU	KS2DE	KS2D
645	119.8	SWZUE	SWZU	KS2DE	KS2D
646	120.5	SWZUE	SWZU	KS3DE	KS3D
647	120.5	SWZUE	SWZU	KS3DE	KS3D
648	120.5	SWZUE	SWZU	KS3DE	KS3D
649	114.2	SWZUE	SWZU	NEZDE	NEZD
650	116.7	SWZUE	SWZU	NWZDE	NWZD
651	116.7	SWZUE	SWZU	SEZDE	SEZD
652	114.3	SWZUE	SWZU	SWZDE	SWZD
653	118.2	SWZUE	SWZU	WHDE	WHD
654	119.5	SWZUF	SWZU	EHDF	EHD

655	114.3	SWZUF	SWZU	NEZDF	NEZD
656	116.8	SWZUF	SWZU	NWZDF	NWZD
657	116.8	SWZUF	SWZU	SEZDF	SEZD
658	114.4	SWZUF	SWZU	SWZDF	SWZD
659	118.3	SWZUF	SWZU	WHDF	WHD
660	118.2	WHUA	WHU	EHDA	EHD
661	120.4	WHUA	WHU	KS1DA	KS1D
662	120.4	WHUA	WHU	KS1DH	KS1D
663	120.4	WHUA	WHU	KS1DL	KS1D
664	118.6	WHUA	WHU	KS2DA	KS2D
665	118.6	WHUA	WHU	KS2DH	KS2D
666	118.6	WHUA	WHU	KS2DL	KS2D
667	119.3	WHUA	WHU	KS3DA	KS3D
668	119.3	WHUA	WHU	KS3DH	KS3D
669	119.3	WHUA	WHU	KS3DL	KS3D
670	113	WHUA	WHU	NEZDA	NEZD
671	115.5	WHUA	WHU	NWZDA	NWZD
672	115.5	WHUA	WHU	SEZDA	SEZD
673	113.1	WHUA	WHU	SWZDA	SWZD
674	117	WHUA	WHU	WHDA	WHD
675	118.3	WHUB	WHU	EHDB	EHD
676	120.5	WHUB	WHU	KS1DB	KS1D
677	120.5	WHUB	WHU	KS1DI	KS1D
678	120.5	WHUB	WHU	KS1DM	KS1D
679	118.7	WHUB	WHU	KS2DB	KS2D
680	118.7	WHUB	WHU	KS2DI	KS2D
681	118.7	WHUB	WHU	KS2DM	KS2D
682	119.4	WHUB	WHU	KS3DB	KS3D
683	119.4	WHUB	WHU	KS3DI	KS3D
684	119.4	WHUB	WHU	KS3DM	KS3D
685	113.1	WHUB	WHU	NEZDB	NEZD
686	115.6	WHUB	WHU	NWZDB	NWZD
687	115.6	WHUB	WHU	SEZDB	SEZD
688	113.2	WHUB	WHU	SWZDB	SWZD
689	117.1	WHUB	WHU	WHDB	WHD
690	118.4	WHUC	WHU	EHDC	EHD
691	120.6	WHUC	WHU	KS1DC	KS1D
692	120.6	WHUC	WHU	KS1DJ	KS1D
693	120.6	WHUC	WHU	KS1DN	KS1D

694	118.8	WHUC	WHU	KS2DC	KS2D
695	118.8	WHUC	WHU	KS2DJ	KS2D
696	118.8	WHUC	WHU	KS2DN	KS2D
697	119.5	WHUC	WHU	KS3DC	KS3D
698	119.5	WHUC	WHU	KS3DJ	KS3D
699	119.5	WHUC	WHU	KS3DN	KS3D
700	113.2	WHUC	WHU	NEZDC	NEZD
701	115.7	WHUC	WHU	NWZDC	NWZD
702	115.7	WHUC	WHU	SEZDC	SEZD
703	113.3	WHUC	WHU	SWZDC	SWZD
704	117.2	WHUC	WHU	WHDC	WHD
705	118.4	WHUD	WHU	EHDD	EHD
706	120.6	WHUD	WHU	KS1DD	KS1D
707	120.6	WHUD	WHU	KS1DK	KS1D
708	120.6	WHUD	WHU	KS1DP	KS1D
709	118.8	WHUD	WHU	KS2DD	KS2D
710	118.8	WHUD	WHU	KS2DK	KS2D
711	118.8	WHUD	WHU	KS2DP	KS2D
712	119.5	WHUD	WHU	KS3DD	KS3D
713	119.5	WHUD	WHU	KS3DK	KS3D
714	119.5	WHUD	WHU	KS3DP	KS3D
715	113.2	WHUD	WHU	NEZDD	NEZD
716	115.7	WHUD	WHU	NWZDD	NWZD
717	115.7	WHUD	WHU	SEZDD	SEZD
718	113.3	WHUD	WHU	SWZDD	SWZD
719	117.2	WHUD	WHU	WHDD	WHD
720	118.5	WHUE	WHU	EHDE	EHD
721	120.7	WHUE	WHU	KS1DE	KS1D
722	120.7	WHUE	WHU	KS1DE	KS1D
723	120.7	WHUE	WHU	KS1DE	KS1D
724	118.9	WHUE	WHU	KS2DE	KS2D
725	118.9	WHUE	WHU	KS2DE	KS2D
726	118.9	WHUE	WHU	KS2DE	KS2D
727	119.6	WHUE	WHU	KS3DE	KS3D
728	119.6	WHUE	WHU	KS3DE	KS3D
729	119.6	WHUE	WHU	KS3DE	KS3D
730	113.3	WHUE	WHU	NEZDE	NEZD
731	115.8	WHUE	WHU	NWZDE	NWZD
732	115.8	WHUE	WHU	SEZDE	SEZD

733	113.4	WHUE	WHU	SWZDE	SWZD
734	117.3	WHUE	WHU	WHDE	WHD
735	115.8	WHUF	WHU	CSBDA	CSBD
736	118.6	WHUF	WHU	EHDF	EHD
737	118.9	WHUF	WHU	GBDA	GBD
738	113.4	WHUF	WHU	NEZDF	NEZD
739	115.9	WHUF	WHU	NWZDF	NWZD
740	115.9	WHUF	WHU	SEZDF	SEZD
741	113.5	WHUF	WHU	SWZDF	SWZD
742	117.4	WHUF	WHU	WHDF	WHD
743		CMD1	CMD		
744		CMD2	CMD		
745				TM1	TLMO
746				TM2	TLMO
747				TM3	TLMO
748				TM4	TLMO
749				TM1	TLMB
750				TM2	TLMB
751				TM3	TLMB
752				TM4	TLMB
753				BK1	BNK1
754				BK2	BNK2
755				BK3	BNK3
756				BK4	BNK4
757				BK5	BNK5
758				BK6	BNK3
759				BK7	BNK4
760				BK8	BNK5
761					

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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	346KG7W	346	4	256	0.5		6	18.2
D2	461KG7W	461	4	512	0.75		9.3	21.5
D3	1M84G7W	1840	4	2048	0.75		9.3	21.5
D4	8M25G7W	8250	4	8448	0.692		6.9	19.1
D5	36M0G7W	36000	4	41470	0.692		6.9	19.1
D6	72M0G7W	72000	4	155000	0.816		12.7	24.9

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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	13.2	1.5		10	22.2
TCM	800KF9D	800		1									10	22.2
TM	300KF9D	300		1									3	15.4
BC	25K0N0N	25		1									3	15.4
BK	25K0N0N	25		1									3	15.4

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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)
1	742	D1		87	346	G_G.xls		51.6	-2	1	8.4	11.4	-168.8	24
1	742	D2		50	461	G_G.xls		47.5	4.6	7.6	10.8	13.8	-167.6	27.1
1	742	D3		6	1840	G_G.xls		55.3	6.1	9.1	20.2	23.2	-164.3	22.6
1	742	D4		3	8250	G_G.xls		51.6	12.7	15.7	23.1	26.1	-167.9	24
1	742	D5		1		G_G.xls		56.7	21	24	30.8	33.8	-167.1	22.6
1	742		A1	1		G_G.xls		56.8	18.8	21.8	30.4	33.4	-155.7	27.1
1	742	D1		87	346	H_G.xls		47.5	2	5	8.5	11.5	-168.7	24
1	742	D2		48	461	H_G.xls		51.6	0.4	3.4	11.1	14.1	-167.3	27
1	742	D3		7	1840	H_G.xls		55.3	5.3	8.3	19.6	22.6	-164.9	24
1	742	D4		3	8250	H_G.xls		47.5	16.8	19.8	23.3	26.3	-167.7	24
1	742	D5		1		H_G.xls		56.8	22.1	25.1	30.9	33.9	-167	22.6
1	742		A1	1		H_G.xls		56.3	14.8	17.8	30.9	33.9	-155.2	27.1
1	742	D1		87	346	G_H.xls		47.5	-0.8	2.2	12.2	15.2	-165	22.5
1	742	D2		11	461	G_H.xls		55.3	0.4	3.4	21.3	24.3	-163.2	24
1	742	D3		3	1840	G_H.xls		47.5	13.9	16.9	27	30	-164	22.5
1	742	D4		1		G_H.xls		56.8	17.2	20.2	34.6	37.6	-163.3	22.5
1	742		A1	1		G_H.xls		56.8	18.8	21.8	34.2	37.2	-151.9	24
1	742	D1		107	346	H_H.xls		47.2	-0.6	2.4	11	14	-166.2	22.6
1	742	D2		59	461	H_H.xls		51.3	-2.1	0.9	13.6	16.6	-164.8	24
1	742	D3		15	1840	H_H.xls		55	0.2	3.2	19.6	22.6	-164.9	24
1	742	D4		4	8250	H_H.xls		47.2	13.2	16.2	24.8	27.8	-166.2	22.5
1	742	D6		1		H_H.xls		56.4	21.5	24.5	34.3	37.3	-166.8	27
1	742		A1	2	36000	H_H.xls		56.3	13.8	16.8	33.3	36.3	-152.8	24
1	742	D1		138	346	Z_H.xls		47.3	-2.1	0.9	10.6	13.6	-166.6	22.5
1	742	D2		83	461	Z_H.xls		51.4	-4.1	-1.1	12.8	15.8	-165.6	24
1	742	D3		21	1840	Z_H.xls		55.1	-1.7	1.3	18.8	21.8	-165.7	24
1	742	D4		5	8250	Z_H.xls		47.3	12	15	24.7	27.7	-166.3	22.5
1	742	D6		1		Z_H.xls		56.6	21.7	24.7	35	38	-166.1	26.1
1	742		A1	2	36000	Z_H.xls		56.6	14.6	17.6	32.8	35.8	-153.3	24

1	742	D1		69	346	KSPOT_H.xls		49.6	-5	0	10.6	15.6	-164.6	22.6
1	742	D2		48	461	KSPOT_H.xls		49.1	-3	2	12.2	17.2	-164.2	26.1
1	742	D3		11	1840	KSPOT_H.xls		52.9	-0.2	4.8	18.7	23.7	-163.8	26.1
1	742	D4		3	8250	KSPOT_H.xls		49.1	9.3	14.3	24.4	29.4	-164.6	24
1	742	D6		1		KSPOT_H.xls		56.5	19.1	24.1	32	37	-167.1	30.2
1	742		A1	2	36000	KSPOT_H.xls		56.5	10.9	15.9	28.4	33.4	-155.7	30.2
1	742	D1		162	346	H_Z.xls		47.3	-1.5	1.5	9.8	12.8	-167.4	22.5
1	742	D2		76	461	H_Z.xls		51.4	-2.2	0.8	13.1	16.1	-165.3	24
1	742	D3		18	1840	H_Z.xls		55.1	0.3	3.3	19.4	22.4	-165.1	24
1	742	D4		5	8250	H_Z.xls		47.3	13.3	16.3	24.6	27.6	-166.4	22.5
1	742	D6		1		H_Z.xls		56.6	23.3	26.3	34.9	37.9	-166.2	27.3
1	742		A1	2	36000	H_Z.xls		56.6	15.6	18.6	33.6	36.6	-152.5	24
1	742	D1		151	346	Z_Z.xls		47.3	-2.2	0.8	9.2	12.2	-168	22.5
1	742	D2		78	461	Z_Z.xls		51.4	-3.4	-0.4	12.1	15.1	-166.3	24
1	742	D3		18	1840	Z_Z.xls		55.1	-0.8	2.2	18.4	21.4	-166.1	24
1	742	D4		5	8250	Z_Z.xls		47.3	12.6	15.6	23.9	26.9	-167.1	22.5
1	742	D6		1		Z_Z.xls		56.6	19.4	22.4	34	37	-167.1	27.3
1	742		A1	2	36000	Z_Z.xls		56.6	11.2	14.2	33.6	36.6	-152.5	24
1	742	D1		52	346	KSPOT_Z.xls		49.5	-6.3	-0.3	10.8	16.8	-163.4	22.6
1	742	D2		7	461	KSPOT_Z.xls		49.1	-4.1	1.9	12.6	18.6	-162.8	26.1
1	742	D3		9	1840	KSPOT_Z.xls		52.8	-1.8	4.2	18.7	24.7	-162.8	26.1
1	742	D4		2	8250	KSPOT_Z.xls		46.5	10.2	16.2	24.3	30.3	-163.7	24
1	742	D6		1		KSPOT_Z.xls		54.5	18.6	24.6	31	37	-167.1	30.2
1	742		A1	2	36000	KSPOT_Z.xls		56.5	8.3	14.3	28.8	34.8	-154.3	30.2
1	742	D1		129	346	H_KSPOT.xls		45.8	0	5	20.9	25.9	-154.3	26
1	742	D2		85	461	H_KSPOT.xls		47.3	0.2	5.2	22.7	27.7	-153.7	29.7
1	742	D3		21	1840	H_KSPOT.xls		47.3	6.2	11.2	28.7	33.7	-153.8	29.7
1	742	D4		5	8250	H_KSPOT.xls		53.4	6.8	11.8	35.3	40.3	-153.7	26
1	742	D6		1		H_KSPOT.xls		53.4	23.5	28.5	45	50	-154.1	31.4
1	742		A1	2	36000	H_KSPOT.xls		53.4	15.6	20.6	36.2	41.2	-147.9	32.6
1	742	D1		145	346	Z_KSPOT.xls		45.8	-1.9	3.1	20.2	25.2	-155	26
1	742	D2		98	461	Z_KSPOT.xls		47.2	-1.6	3.4	21.9	26.9	-154.5	29.7
1	742	D3		25	1840	Z_KSPOT.xls		47.3	4.4	9.4	27.9	32.9	-154.6	29.7
1	742	D4		5	8250	Z_KSPOT.xls		53.4	5.3	10.3	34.9	39.9	-154.1	26
1	742	D6		1		Z_KSPOT.xls		53.2	22.5	27.5	44.8	49.8	-154.3	31.4
1	742		A1	2	36000	Z_KSPOT.xls		53.2	11.4	16.4	36.2	41.2	-147.9	32.6
1	742	D1		174	346	KSPOT_KSPO		54.5	-3	1	22.5	26.5	-153.7	23.3
1	742	D2		98	461	KSPOT_KSPO		52.8	1.2	5.2	25	29	-152.4	25.8
1	742	D3		24	1840	KSPOT_KSPO		62.4	-2.3	1.7	31.1	35.1	-152.4	25.8

1	742	D4		9	8250	KSPOT_KSPO		54.5	9.7	13.7	35.2	39.2	-154.8	25.8
1	742	D6		1		KSPOT_KSPO		62.4	16.5	20.5	47.9	51.9	-152.2	29.6
1	742		A1	2	36000	KSPOT_KSPO		63.9	10.5	14.5	37.1	41.1	-148	30.5
1	742	D1		87	346	G_CSPOT.xls		47.5	-1.8	2.2	12.2	16.2	-164	22.5
1	742	D2		11	461	G_CSPOT.xls		55.3	-0.6	3.4	21.3	25.3	-162.2	24
1	742	D3		3	1840	G_CSPOT.xls		47.5	12.9	16.9	27	31	-163	22.5
1	742	D4		1		G_CSPOT.xls		56.8	16.2	20.2	34.6	38.6	-162.3	22.5
1	742		A1	1		G_CSPOT.xls		56.8	17.8	21.8	34.2	38.2	-150.9	24
1	742	D1		91	346	CSPOT_H.xls		47.2	-1.6	2.4	11	15	-165.2	22.6
1	742	D2		50	461	CSPOT_H.xls		51.3	-3.1	0.9	13.6	17.6	-163.8	24
1	742	D3		13	1840	CSPOT_H.xls		55	-0.8	3.2	19.6	23.6	-163.9	24
1	742	D4		4	8250	CSPOT_H.xls		47.2	12.2	16.2	24.8	28.8	-165.2	22.5
1	742	D5		1		CSPOT_H.xls		56.8	16.2	20.2	33.6	37.6	-163.3	22.5
1	742		A1	1		CSPOT_H.xls		56.3	12.8	16.8	33.3	37.3	-151.8	24
1	742	D1		91	346	H_CSPOT.xls		47.2	-2.6	2.4	11	16	-164.2	22.6
1	742	D2		50	461	H_CSPOT.xls		51.3	-4.1	0.9	13.6	18.6	-162.8	24
1	742	D3		13	1840	H_CSPOT.xls		55	-1.8	3.2	19.6	24.6	-162.9	24
1	742	D4		4	8250	H_CSPOT.xls		47.2	11.2	16.2	24.8	29.8	-164.2	22.5
1	742	D5		1		H_CSPOT.xls		56.8	15.2	20.2	33.6	38.6	-162.3	22.5
1	742		A1	1		H_CSPOT.xls		56.3	11.8	16.8	33.3	38.3	-150.8	24
1	742	D1		87	346	CSPOT_G.xls		47.5	2	5	8.5	11.5	-168.7	24
1	742	D2		48	461	CSPOT_G.xls		51.6	0.4	3.4	11.1	14.1	-167.3	27
1	742	D3		7	1840	CSPOT_G.xls		55.3	5.3	8.3	19.6	22.6	-164.9	24
1	742	D4		3	8250	CSPOT_G.xls		47.5	16.8	19.8	23.3	26.3	-167.7	24
1	742	D5		1		CSPOT_G.xls		56.8	22.1	25.1	30.9	33.9	-167	22.6
1	742		A1	1		CSPOT_G.xls		56.3	14.8	17.8	30.9	33.9	-155.2	27.1
1	742	D1		87	346	CSPOT_CSPO		47.5	-1.8	2.2	12.2	16.2	-164	22.5
1	742	D2		11	461	CSPOT_CSPO		55.3	-0.6	3.4	21.3	25.3	-162.2	24
1	742	D3		3	1840	CSPOT_CSPO		47.5	12.9	16.9	27	31	-163	22.5
1	742	D4		1		CSPOT_CSPO		56.8	16.2	20.2	34.6	38.6	-162.3	22.5
1	742		A1	1		CSPOT_CSPO		56.8	17.8	21.8	34.2	38.2	-150.9	24
743	744		TCM	1		TTC_budgets.xl		55.8	13.7	19.7				
745	752		TM	1		TTC_budgets.xl					-0.3	8.2	-171.9	32.6
753	753		BC	1		TTC_budgets.xl					4	11.5	-158.6	27.1
754	761		BK	1		TTC_budgets.xl					12	18	-152.1	29.4

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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): #Error

Remote Control (TT C) Location(s):

S14a: Street Address: L-6815 Château de Betzdorf			
S14b. City: Betzdorf	S14c. County:	S14d. State/Country	S14e. Zip Code:
S14f. Telephone Number: +352 710 725 8253		S14g. Call Sign of Control Station (if appropriate):	

Remote Control (TT C) Location(s):

S14a: Street Address: 2323 Grimville Road			
S14b. City: Mouint Airy	S14c. County: Carroll	S14d. State/Country MD	S14e. Zip Code: 21771
S14f. Telephone Number: +1 410 970 7501		S14g. Call Sign of Control Station (if appropriate): E070181	

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Characteristics and
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S15. SPACECRAFT PHYSICAL CHARACTERISTICS:

S15a. Mass of spacecraft without fuel (kg): 1457.7	Spacecraft Dimensions (meters)	Probability of Survival to End of Life (0.0 - 1.0)
S15b. Mass of fuel and disposables at launch (kg): 2200.7		
S15c. Mass of spacecraft and fuel at launch (kg): 3658.4	S15f. Length (m): 21.84	S15i. Payload:
S15d. Mass of fuel, in orbit, at beginning of life (kg): 476	S15g. Width (m): 7.95	S15j. Bus:
S15e. Deployed Area of Solar Array (square meters): 37.4	S15h. Height (m): 4.77	S15k. Total:

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): 2693	(f): 2693	(k): 2693	(p): 2693
Bus (Watts):	(b): 1136	(g): 795	(l): 1136	(q): 795
Total (Watts):	(c): 3829	(h): 3488	(m): 3829	(r): 3488
Solar Array (Watts):	(d): 4780	(i): 4213	(n): 3963	(s): 3480
Depth of Battery Discharge (%):	(e) 67.4 %	(j) 67.4 %	(o) 70 %	(t) 70 %

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.