

S1. GENERAL INFORMATION Complete for all satellite applications.

a. Space Station or Satellite Network Name: PEGASUS 110W		e. Estimated Date of Placement into Service:		i. Will the space station(s) operate on a Common Carrier Basis: N	
b. Construction Commencement Date:		f. Estimated Lifetime of Satellite(s): 12 Years		j. Number of transponders offered on a common carrier basis: 0	
c. Construction Completion Date:		g. Total Number of Transponders: 232		k. Total Common Carrier Transponder Bandwidth: 0 MHz	
d1. Est Launch Date Begin:	d2. Est Launch Date End:	h. Total Transponder Bandwidth (no. transponders x Bandwidth) 6264 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)		
17.30	G	17.80	G	T	Broadcasting Satellite Service - Video
24.75	G	25.25	G	R	Feeder Link for Broadcasting Satellite Service in FSS
17.30	G	17.80	G	T	Broadcasting Satellite Service - Sound
17.30	G	17.80	G	T	Broadcasting Satellite Service - Data

S3. ORBITAL INFORMATION FOR GEOSTATIONARY SATELLITES ONLY:

a. Nominal Orbital Longitude (Degrees E/W): 110 W		b. Alternate Orbital Longitude (Degrees E/W):		c. Reason for orbital location selection: Good elevation angle for subscribers in fifty states.			
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> </u> Degrees <u> </u> 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):							

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

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

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

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.
CONT	E		-4DB, CONUS
S01T	E		-4DB
S01R	S		-4DB
S02T	E		-4DB
S02R	S		-4DB
S03T	E		-4DB
S03R	S		-4DB
S04T	E		-4DB
S04R	S		-4DB
S05T	E		-4DB
S05R	S		-4DB
S06T	E		-4DB
S06R	S		-4DB
S07T	E		-4DB
S07R	S		-4DB
S08T	E		-4DB
S08R	S		-4DB
S09T	E		-4DB
S09R	S		-4DB
S10T	E		-4DB
S10R	S		-4DB
S11T	E		-4DB
S11R	S		-4DB
S12T	E		-4DB
S12R	S		-4DB
S13T	E		-4DB
S13R	S		-4DB
S14T	E		-4DB
S14R	S		-4DB
S15T	E		-4DB

S15R	S		-4DB
S16T	E		-4DB
S16R	S		-4DB
S17T	E		-4DB
S17R	S		-4DB
S18T	E		-4DB
S18R	S		-4DB
S19T	E		-4DB
S19R	S		-4DB
S20T	E		-4DB
S20R	S		-4DB
S21T	E		-4DB
S21R	S		-4DB
S22T	E		-4DB
S22R	S		-4DB
S23T	E		-4DB
S23R	S		-4DB
S24T	E		-4DB
S24R	S		-4DB
S25T	E		-4DB
S25R	S		-4DB
S26T	E		-4DB
S26R	S		-4DB
S27T	E		-4DB
S27R	S		-4DB
S28T	E		-4DB
S28R	S		-4DB
S29T	E		-4DB
S29R	S		-4DB
S30T	E		-4DB
S30R	S		-4DB
S31T	E		-4DB
S31R	S		-4DB
S32T	E		-4DB
S32R	S		-4DB
S33T	E		-4DB
S33R	S		-4DB
S34T	E		-4DB
S34R	S		-4DB

S35T	E		-4DB
S35R	S		-4DB
S36T	E		-4DB
S36R	S		-4DB
S37T	E		-4DB
S37R	S		-4DB
S38T	E		-4DB
S38R	S		-4DB
S39T	E		-4DB
S39R	S		-4DB
S40T	E		-4DB
S40R	S		-4DB
S41T	E		-4DB
S41R	S		-4DB
S42T	E		-4DB
S42R	S		-4DB
S43T	E		-4DB
S43R	S		-4DB
S44T	E		-4DB
S44R	S		-4DB
S45T	E		-4DB
S45R	S		-4DB
S46T	E		-4DB
S46R	S		-4DB
S47T	E		-4DB
S47R	S		-4DB
S48T	E		-4DB
S48R	S		-4DB
S49T	E		-4DB
S49R	S		-4DB
S50T	E		-4DB
S50R	S		-4DB
S51T	E		-4DB
S51R	S		-4DB
S52T	E		-4DB
S52R	S		-4DB
S53T	E		-4DB
S53R	S		-4DB
S54T	E		-4DB

S54R	S		-4DB
GBLT	E		GLOBAL
GBLR	S		GLOBAL

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

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 Iso- lation (dB)	(h) Polar- ization Switch- able? (Y/N)	(i) Polarization Alignment Rel. Equatorial Plane (Degrees)	(j) Service Area ID	Transmit			Receive					
		(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)	Input Attenuator (dB)		
																(q) Max. Value	(r) Step Size	
CON	T	34	30	0.05	0.05	35	N		CONT	2.5	147.91	54.7						
S01T	T	49.4	45.4	0.05	0.05	35	N		S01T	2.5	3.44	54.76						
S02T	T	49.4	45.4	0.05	0.05	35	N		S02T	2.5	3.75	55.14						
S03T	T	49.4	45.4	0.05	0.05	35	N		S03T	2.5	3.1	54.32						
S04T	T	49.4	45.4	0.05	0.05	35	N		S04T	2.5	3.6	54.96						
S05T	T	49.4	45.4	0.05	0.05	35	N		S05T	2.5	4.47	55.9						
S06T	T	49.4	45.4	0.05	0.05	35	N		S06T	2.5	3.16	54.4						
S07T	T	49.4	45.4	0.05	0.05	35	N		S07T	2.5	2.79	53.86						
S08T	T	49.4	45.4	0.05	0.05	35	N		S08T	2.5	5.25	56.6						
S09T	T	49.4	45.4	0.05	0.05	35	N		S09T	2.5	3.46	54.79						
S10T	T	49.4	45.4	0.05	0.05	35	N		S10T	2.5	4.7	56.12						
S11T	T	49.4	45.4	0.05	0.05	35	N		S11T	2.5	3.76	55.15						
S12T	T	49.4	45.4	0.05	0.05	35	N		S12T	2.5	3.56	54.91						
S13T	T	49.4	45.4	0.05	0.05	35	N		S13T	2.5	8.61	58.75						
S14T	T	49.4	45.4	0.05	0.05	35	N		S14T	2.5	3.58	54.94						
S15T	T	49.4	45.4	0.05	0.05	35	N		S15T	2.5	3.59	54.95						
S16T	T	49.4	45.4	0.05	0.05	35	N		S16T	2.5	6.95	57.82						
S17T	T	49.4	45.4	0.05	0.05	35	N		S17T	2.5	1.5	51.17						
S18T	T	49.4	45.4	0.05	0.05	35	N		S18T	2.5	6	57.18						
S19T	T	49.4	45.4	0.05	0.05	35	N		S19T	2.5	3.12	54.34						
S20T	T	49.4	45.4	0.05	0.05	35	N		S20T	2.5	6.38	57.45						
S21T	T	49.4	45.4	0.05	0.05	35	N		S21T	2.5	3.95	55.37						
S22T	T	49.4	45.4	0.05	0.05	35	N		S22T	2.5	2	52.41						
S23T	T	49.4	45.4	0.05	0.05	35	N		S23T	2.5	1.48	51.09						
S24T	T	49.4	45.4	0.05	0.05	35	N		S24T	2.5	9.91	59.36						
S25T	T	49.4	45.4	0.05	0.05	35	N		S25T	2.5	4.4	55.83						
S26T	T	49.4	45.4	0.05	0.05	35	N		S26T	2.5	3.3	54.59						
S27T	T	49.4	45.4	0.05	0.05	35	N		S27T	2.5	2.41	53.22						
S28T	T	49.4	45.4	0.05	0.05	35	N		S28T	2.5	2.46	53.31						

S29T	T	49.4	45.4	0.05	0.05	35	N			S29T	2.5	2.21	52.84					
S30T	T	49.4	45.4	0.05	0.05	35	N			S30T	2.5	1.45	51					
S31T	T	49.4	45.4	0.05	0.05	35	N			S31T	2.5	1.93	52.25					
S32T	T	49.4	45.4	0.05	0.05	35	N			S32T	2.5	1.13	49.92					
S33T	T	49.4	45.4	0.05	0.05	35	N			S33T	2.5	1.49	51.13					
S34T	T	49.4	45.4	0.05	0.05	35	N			S34T	2.5	3.13	54.35					
S35T	T	49.4	45.4	0.05	0.05	35	N			S35T	2.5	2.51	53.4					
S36T	T	49.4	45.4	0.05	0.05	35	N			S36T	2.5	1.77	51.89					
S37T	T	49.4	45.4	0.05	0.05	35	N			S37T	2.5	1.57	51.35					
S38T	T	49.4	45.4	0.05	0.05	35	N			S38T	2.5	1.33	50.64					
S39T	T	49.4	45.4	0.05	0.05	35	N			S39T	2.5	2.77	53.82					
S40T	T	49.4	45.4	0.05	0.05	35	N			S40T	2.5	2.13	52.69					
S41T	T	49.4	45.4	0.05	0.05	35	N			S41T	2.5	1.26	50.39					
S42T	T	49.4	45.4	0.05	0.05	35	N			S42T	2.5	2.18	52.79					
S43T	T	49.4	45.4	0.05	0.05	35	N			S43T	2.5	2.44	53.27					
S44T	T	49.4	45.4	0.05	0.05	35	N			S44T	2.5	2.33	53.07					
S03R	R	49.4	45.4	0.05	0.05	35	N			S03R				912	19.8	-70.47	15	1
S04R	R	49.4	45.4	0.05	0.05	35	N			S04R				912	19.8	-67.39	15	1
S05R	R	49.4	45.4	0.05	0.05	35	N			S05R				912	19.8	-63.66	15	1
S06R	R	49.4	45.4	0.05	0.05	35	N			S06R				912	19.8	-69.92	15	1
S07R	R	49.4	45.4	0.05	0.05	35	N			S07R				912	19.8	-70.96	15	1
S08R	R	49.4	45.4	0.05	0.05	35	N			S08R				912	19.8	-61.2	15	1
S09R	R	49.4	45.4	0.05	0.05	35	N			S09R				912	19.8	-68.21	15	1
S10R	R	49.4	45.4	0.05	0.05	35	N			S10R				912	19.8	-62.59	15	1
S11R	R	49.4	45.4	0.05	0.05	35	N			S11R				912	19.8	-66.54	15	1
S12R	R	49.4	45.4	0.05	0.05	35	N			S12R				912	19.8	-66.47	15	1
S13R	R	49.4	45.4	0.05	0.05	35	N			S13R				912	19.8	-50.43	15	1
S14R	R	49.4	45.4	0.05	0.05	35	N			S14R				912	19.8	-67.16	15	1
S15R	R	49.4	45.4	0.05	0.05	35	N			S15R				912	19.8	-68	15	1
S16R	R	49.4	45.4	0.05	0.05	35	N			S16R				912	19.8	-55.59	15	1
S17R	R	49.4	45.4	0.05	0.05	35	N			S17R				912	19.8	-78.8	15	1
S18R	R	49.4	45.4	0.05	0.05	35	N			S18R				912	19.8	-57.7	15	1
S19R	R	49.4	45.4	0.05	0.05	35	N			S19R				912	19.8	-68.82	15	1
S20R	R	49.4	45.4	0.05	0.05	35	N			S20R				912	19.8	-56.84	15	1
S21R	R	49.4	45.4	0.05	0.05	35	N			S21R				912	19.8	-65.24	15	1
S22R	R	49.4	45.4	0.05	0.05	35	N			S22R				912	19.8	-75.53	15	1
S23R	R	49.4	45.4	0.05	0.05	35	N			S23R				912	19.8	-79.89	15	1
S24R	R	49.4	45.4	0.05	0.05	35	N			S24R				912	19.8	-48.34	15	1
S25R	R	49.4	45.4	0.05	0.05	35	N			S25R				912	19.8	-62.5	15	1

S26R	R	49.4	45.4	0.05	0.05	35	N					912	19.8	-68.78	15	1
S27R	R	49.4	45.4	0.05	0.05	35	N					912	19.8	-73.9	15	1
S28R	R	49.4	45.4	0.05	0.05	35	N					912	19.8	-71.89	15	1
S29R	R	49.4	45.4	0.05	0.05	35	N					912	19.8	-74.94	15	1
S30R	R	49.4	45.4	0.05	0.05	35	N					912	19.8	-79.77	15	1
S31R	R	49.4	45.4	0.05	0.05	35	N					912	19.8	-75.59	15	1
S32R	R	49.4	45.4	0.05	0.05	35	N					912	19.8	-81.98	15	1
S33R	R	49.4	45.4	0.05	0.05	35	N					912	19.8	-78.57	15	1
S34R	R	49.4	45.4	0.05	0.05	35	N					912	19.8	-68.4	15	1
S35R	R	49.4	45.4	0.05	0.05	35	N					912	19.8	-72.31	15	1
S36R	R	49.4	45.4	0.05	0.05	35	N					912	19.8	-76.99	15	1
S37R	R	49.4	45.4	0.05	0.05	35	N					912	19.8	-78.29	15	1
S38R	R	49.4	45.4	0.05	0.05	35	N					912	19.8	-81.04	15	1
S39R	R	49.4	45.4	0.05	0.05	35	N					912	19.8	-70.18	15	1
S40R	R	49.4	45.4	0.05	0.05	35	N					912	19.8	-75.31	15	1
S41R	R	49.4	45.4	0.05	0.05	35	N					912	19.8	-81.3	15	1
S42R	R	49.4	45.4	0.05	0.05	35	N					912	19.8	-73.99	15	1
S43R	R	49.4	45.4	0.05	0.05	35	N					912	19.8	-72.53	15	1
S44R	R	49.4	45.4	0.05	0.05	35	N					912	19.8	-74.42	15	1
S45R	R	49.4	45.4	0.05	0.05	35	N					912	19.8	-82.15	15	1
S46R	R	49.4	45.4	0.05	0.05	35	N					912	19.8	-72.31	15	1
S47R	R	49.4	45.4	0.05	0.05	35	N					912	19.8	-81.25	15	1
S48R	R	49.4	45.4	0.05	0.05	35	N					912	19.8	-77.32	15	1
S49R	R	49.4	45.4	0.05	0.05	35	N					912	19.8	-79.83	15	1
S50R	R	49.4	45.4	0.05	0.05	35	N					912	19.8	-77.16	15	1
S51R	R	49.4	45.4	0.05	0.05	35	N					912	19.8	-75.63	15	1
S52R	R	49.4	45.4	0.05	0.05	35	N					912	19.8	-81.87	15	1
S53R	R	49.4	45.4	0.05	0.05	35	N					912	19.8	-79.94	15	1
S54R	R	49.4	45.4	0.05	0.05	35	N					912	19.8	-75.38	15	1
GBB	T	16	16	0.05	0.05	35	N			2.5	0.32	11				
GBT	T	16	16	0.05	0.05	35	N			2.5	0.59	13.7				
GBC	R	16	16	0.05	0.05	35	N					794	-13			
S45T	T	49.4	45.4	0.05	0.05	35	N			2.5	1.16	50.03				
S46T	T	49.4	45.4	0.05	0.05	35	N			2.5	2.76	53.81				
S47T	T	49.4	45.4	0.05	0.05	35	N			2.5	1.24	50.32				
S48T	T	49.4	45.4	0.05	0.05	35	N			2.5	1.76	51.85				
S49T	T	49.4	45.4	0.05	0.05	35	N			2.5	1.4	50.85				
S50T	T	49.4	45.4	0.05	0.05	35	N			2.5	1.83	52.03				
S51T	T	49.4	45.4	0.05	0.05	35	N			2.5	2.02	52.46				

S52T	T	49.4	45.4	0.05	0.05	35	N		S52T	2.5	1.17	50.09					
S53T	T	49.4	45.4	0.05	0.05	35	N		S53T	2.5	1.46	51.03					
S54T	T	49.4	45.4	0.05	0.05	35	N		S54T	2.5	2.07	52.57					
S01R	R	49.4	45.4	0.05	0.05	35	N		S01R				912	19.8	-68.62	15	1
S02R	R	49.4	45.4	0.05	0.05	35	N		S02R				912	19.8	-67.05	15	1

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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
CON	T	C	-110		GASUS CONUS 110.	-156.9	-156.5	-142.65	-125.3	-124.2
S01T	T	C	-110			-129	-125	-120.2	-115.3	-115.3

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FCC Form 312 - Schedule S: (Technical and Operational Description)**

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)
DR001	27000	T	17321.75	R	C
DR002	27000	T	17352	R	C
DR003	27000	T	17382.25	R	C
DR004	27000	T	17412.5	R	C
DR005	27000	T	17442.75	R	C
DR006	27000	T	17473	R	C
DR007	27000	T	17503.25	R	C
DR008	27000	T	17533.5	R	C
DR009	27000	T	17563.75	R	C
DR010	27000	T	17594	R	C
DR011	27000	T	17624.25	R	C
DR012	27000	T	17654.5	R	C
DR013	27000	T	17684.75	R	C
DR014	27000	T	17715	R	C
DR015	27000	T	17745.25	R	C
DR016	27000	T	17775.5	R	C
DL001	27000	T	17321.75	L	C
DL002	27000	T	17352	L	C
DL003	27000	T	17382.25	L	C
DL004	27000	T	17412.5	L	C
DL005	27000	T	17442.75	L	C
DL006	27000	T	17473	L	C
DL007	27000	T	17503.25	L	C
DL008	27000	T	17533.5	L	C
DL009	27000	T	17563.75	L	C
DL010	27000	T	17594	L	C
DL011	27000	T	17624.25	L	C
DL012	27000	T	17654.5	L	C
DL013	27000	T	17684.75	L	C
DL014	27000	T	17715	L	C

(a) Transponder ID	(b) Transponder Gain (dB)	Receive Band		Transmit Band	
		(c) Channel No.	(d) Beam ID	(e) Channel No.	(f) Beam ID
US001	152	UL001	S31R	DR001	CONT
US002	152	UL002	S31R	DR002	CONT
US003	152	UL003	S31R	DR003	CONT
US004	152	UL004	S31R	DR004	CONT
US005	152	UL005	S31R	DR005	CONT
US006	152	UL006	S31R	DR006	CONT
US007	152	UL007	S31R	DR007	CONT
US008	152	UL008	S31R	DR008	CONT
US009	152	UL009	S31R	DR009	CONT
US010	152	UL010	S31R	DR010	CONT
US011	152	UL011	S31R	DR011	CONT
US012	152	UL012	S31R	DR012	CONT
US013	152	UL013	S31R	DR013	CONT
US014	152	UL014	S31R	DR014	CONT
US015	152	UL015	S31R	DR015	CONT
US016	152	UL016	S31R	DR016	CONT
US017	152	UL001	S32R	DR001	CONT
US018	152	UL002	S32R	DR002	CONT
US019	152	UL003	S32R	DR003	CONT
US020	152	UL004	S32R	DR004	CONT
US021	152	UL005	S32R	DR005	CONT
US022	152	UL006	S32R	DR006	CONT
US023	152	UL007	S32R	DR007	CONT
US024	152	UL008	S32R	DR008	CONT
US025	152	UL009	S32R	DR009	CONT
US026	152	UL010	S32R	DR010	CONT
US027	152	UL011	S32R	DR011	CONT
US028	152	UL012	S32R	DR012	CONT
US029	152	UL013	S32R	DR013	CONT
US030	152	UL014	S32R	DR014	CONT

DL015	27000	T	17745.25	L	C
DL016	27000	T	17775.5	L	C
UL001	27000	R	24771.75	L	C
UL002	27000	R	24802	L	C
UL003	27000	R	24832.25	L	C
UL004	27000	R	24862.5	L	C
UL005	27000	R	24892.75	L	C
UL006	27000	R	24923	L	C
UL007	27000	R	24953.25	L	C
UL008	27000	R	24983.5	L	C
UL009	27000	R	25013.75	L	C
UL010	27000	R	25044	L	C
UL011	27000	R	25074.25	L	C
UL012	27000	R	25104.5	L	C
UL013	27000	R	25134.75	L	C
UL014	27000	R	25165	L	C
UL015	27000	R	25195.25	L	C
UL016	27000	R	25225.5	L	C
UR001	27000	R	24771.75	R	C
UR002	27000	R	24802	R	C
UR003	27000	R	24832.25	R	C
UR004	27000	R	24862.5	R	C
UR005	27000	R	24892.75	R	C
UR006	27000	R	24923	R	C
UR007	27000	R	24953.25	R	C
UR008	27000	R	24983.5	R	C
UR009	27000	R	25013.75	R	C
UR010	27000	R	25044	R	C
UR011	27000	R	25074.25	R	C
UR012	27000	R	25104.5	R	C
UR013	27000	R	25134.75	R	C
UR014	27000	R	25165	R	C
UR015	27000	R	25195.25	R	C
UR016	27000	R	25225.5	R	C
BCN	1	T	17795.0		T
TLM	316	T	17303		T
CMD	2000	R	24754		T

US031	152	UL015	S32R	DR015	CONT
US032	152	UL016	S32R	DR016	CONT
B0001	152	UR002	S01R	DL002	S01T
B0002	152	UR006	S01R	DL006	S01T
B0003	152	UR010	S01R	DL010	S01T
B0004	152	UR014	S01R	DL014	S01T
B0005	152	UR002	S04R	DL002	S04T
B0006	152	UR006	S04R	DL006	S04T
B0007	152	UR010	S04R	DL010	S04T
B0008	152	UR014	S04R	DL014	S04T
B0009	152	UR002	S12R	DL002	S12T
B0010	152	UR006	S12R	DL006	S12T
B0011	152	UR010	S12R	DL010	S12T
B0012	152	UR014	S12R	DL014	S12T
B0013	152	UR002	S14R	DL002	S14T
B0014	152	UR006	S14R	DL006	S14T
B0015	152	UR010	S14R	DL010	S14T
B0016	152	UR014	S14R	DL014	S14T
B0017	152	UR002	S20R	DL002	S20T
B0018	152	UR006	S20R	DL006	S20T
B0019	152	UR010	S20R	DL010	S20T
B0020	152	UR014	S20R	DL014	S20T
B0021	152	UR002	S22R	DL002	S22T
B0022	152	UR006	S22R	DL006	S22T
B0023	152	UR010	S22R	DL010	S22T
B0024	152	UR014	S22R	DL014	S22T
B0025	152	UR002	S23R	DL002	S23T
B0026	152	UR006	S23R	DL006	S23T
B0027	152	UR010	S23R	DL010	S23T
B0028	152	UR014	S23R	DL014	S23T
B0029	152	UR002	S33R	DL002	S33T
B0030	152	UR006	S33R	DL006	S33T
B0031	152	UR010	S33R	DL010	S33T
B0032	152	UR014	S33R	DL014	S33T
B0033	152	UR002	S36R	DL002	S36T
B0034	152	UR006	S36R	DL006	S36T
B0035	152	UR010	S36R	DL010	S36T
B0036	152	UR014	S36R	DL014	S36T
B0037	152	UR002	S39R	DL002	S39T

B0038	152	UR006	S39R	DL006	S39T
B0039	152	UR010	S39R	DL010	S39T
B0040	152	UR014	S39R	DL014	S39T
B0041	152	UR002	S40R	DL002	S40T
B0042	152	UR006	S40R	DL006	S40T
B0043	152	UR010	S40R	DL010	S40T
B0044	152	UR014	S40R	DL014	S40T
B0045	152	UR002	S44R	DL002	S44T
B0046	152	UR006	S44R	DL006	S44T
B0047	152	UR010	S44R	DL010	S44T
B0048	152	UR014	S44R	DL014	S44T
B0049	152	UR002	S47R	DL002	S47T
B0050	152	UR006	S47R	DL006	S47T
B0051	152	UR010	S47R	DL010	S47T
B0052	152	UR014	S47R	DL014	S47T
B0053	152	UR002	S53R	DL002	S53T
B0054	152	UR006	S53R	DL006	S53T
B0055	152	UR010	S53R	DL010	S53T
B0056	152	UR014	S53R	DL014	S53T
A0001	152	UR001	S02R	DL001	S02T
A0002	152	UR005	S02R	DL005	S02T
A0003	152	UR009	S02R	DL009	S02T
A0004	152	UR013	S02R	DL013	S02T
A0005	152	UR001	S11R	DL001	S11T
A0006	152	UR005	S11R	DL005	S11T
A0007	152	UR009	S11R	DL009	S11T
A0008	152	UR013	S11R	DL013	S11T
A0009	152	UR001	S16R	DL001	S16T
A0010	152	UR005	S16R	DL005	S16T
A0011	152	UR009	S16R	DL009	S16T
A0012	152	UR013	S16R	DL013	S16T
A0013	152	UR001	S18R	DL001	S18T
A0014	152	UR005	S18R	DL005	S18T
A0015	152	UR009	S18R	DL009	S18T
A0016	152	UR013	S18R	DL013	S18T
A0017	152	UR001	S24R	DL001	S24T
A0018	152	UR005	S24R	DL005	S24T
A0019	152	UR009	S24R	DL009	S24T
A0020	152	UR013	S24R	DL013	S24T

A0021	152	UR001	S27R	DL001	S27T
A0022	152	UR005	S27R	DL005	S27T
A0023	152	UR009	S27R	DL009	S27T
A0024	152	UR013	S27R	DL013	S27T
A0025	152	UR001	S28R	DL001	S28T
A0026	152	UR005	S28R	DL005	S28T
A0027	152	UR009	S28R	DL009	S28T
A0028	152	UR013	S28R	DL013	S28T
A0029	152	UR001	S29R	DL001	S29T
A0030	152	UR005	S29R	DL005	S29T
A0031	152	UR009	S29R	DL009	S29T
A0032	152	UR013	S29R	DL013	S29T
A0033	152	UR001	S32R	DL001	S32T
A0034	152	UR005	S32R	DL005	S32T
A0035	152	UR009	S32R	DL009	S32T
A0036	152	UR013	S32R	DL013	S32T
A0037	152	UR001	S34R	DL001	S34T
A0038	152	UR005	S34R	DL005	S34T
A0039	152	UR009	S34R	DL009	S34T
A0040	152	UR013	S34R	DL013	S34T
A0041	152	UR001	S35R	DL001	S35T
A0042	152	UR005	S35R	DL005	S35T
A0043	152	UR009	S35R	DL009	S35T
A0044	152	UR013	S35R	DL013	S35T
A0045	152	UR001	S38R	DL001	S38T
A0046	152	UR005	S38R	DL005	S38T
A0047	152	UR009	S38R	DL009	S38T
A0048	152	UR013	S38R	DL013	S38T
A0049	152	UR001	S46R	DL001	S46T
A0050	152	UR005	S46R	DL005	S46T
A0051	152	UR009	S46R	DL009	S46T
A0052	152	UR013	S46R	DL013	S46T
A0053	152	UR001	S49R	DL001	S49T
A0054	152	UR005	S49R	DL005	S49T
A0055	152	UR009	S49R	DL009	S49T
A0056	152	UR013	S49R	DL013	S49T
A0057	152	UR001	S50R	DL001	S50T
A0058	152	UR005	S50R	DL005	S50T
A0059	152	UR009	S50R	DL009	S50T

A0060	152	UR013	S50R	DL013	S50T
A0061	152	UR001	S52R	DL001	S52T
A0062	152	UR005	S52R	DL005	S52T
A0063	152	UR009	S52R	DL009	S52T
A0064	152	UR013	S52R	DL013	S52T
C0001	152	UR003	S03R	DL003	S03T
C0002	152	UR007	S03R	DL007	S03T
C0003	152	UR011	S03R	DL011	S03T
C0004	152	UR015	S03R	DL015	S03T
C0005	152	UR003	S05R	DL003	S05T
C0006	152	UR007	S05R	DL007	S05T
C0007	152	UR011	S05R	DL011	S05T
C0008	152	UR015	S05R	DL015	S05T
C0009	152	UR003	S07R	DL003	S07T
C0010	152	UR007	S07R	DL007	S07T
C0011	152	UR011	S07R	DL011	S07T
C0012	152	UR015	S07R	DL015	S07T
C0013	152	UR003	S13R	DL003	S13T
C0014	152	UR007	S13R	DL007	S13T
C0015	152	UR011	S13R	DL011	S13T
C0016	152	UR015	S13R	DL015	S13T
C0017	152	UR003	S17R	DL003	S17T
C0018	152	UR007	S17R	DL007	S17T
C0019	152	UR011	S17R	DL011	S17T
C0020	152	UR015	S17R	DL015	S17T
C0021	152	UR003	S21R	DL003	S21T
C0022	152	UR007	S21R	DL007	S21T
C0023	152	UR011	S21R	DL011	S21T
C0024	152	UR015	S21R	DL015	S21T
C0025	152	UR003	S25R	DL003	S25T
C0026	152	UR007	S25R	DL007	S25T
C0027	152	UR011	S25R	DL011	S25T
C0028	152	UR015	S25R	DL015	S25T
C0029	152	UR003	S26R	DL003	S26T
C0030	152	UR007	S26R	DL007	S26T
C0031	152	UR011	S26R	DL011	S26T
C0032	152	UR015	S26R	DL015	S26T
C0033	152	UR003	S37R	DL003	S37T
C0034	152	UR007	S37R	DL007	S37T

C0035	152	UR011	S37R	DL011	S37T
C0036	152	UR015	S37R	DL015	S37T
C0037	152	UR003	S43R	DL003	S43T
C0038	152	UR007	S43R	DL007	S43T
C0039	152	UR011	S43R	DL011	S43T
C0040	152	UR015	S43R	DL015	S43T
C0041	152	UR003	S45R	DL003	S45T
C0042	152	UR007	S45R	DL007	S45T
C0043	152	UR011	S45R	DL011	S45T
C0044	152	UR015	S45R	DL015	S45T
C0045	152	UR003	S48R	DL003	S48T
C0046	152	UR007	S48R	DL007	S48T
C0047	152	UR011	S48R	DL011	S48T
C0048	152	UR015	S48R	DL015	S48T
C0049	152	UR003	S54R	DL003	S54T
C0050	152	UR007	S54R	DL007	S54T
C0051	152	UR011	S54R	DL011	S54T
C0052	152	UR015	S54R	DL015	S54T
D0001	152	UR004	S06R	DL004	S06T
D0002	152	UR008	S06R	DL008	S06T
D0003	152	UR012	S06R	DL012	S06T
D0004	152	UR016	S06R	DL016	S06T
D0005	152	UR004	S08R	DL004	S08T
D0006	152	UR008	S08R	DL008	S08T
D0007	152	UR012	S08R	DL012	S08T
D0008	152	UR016	S08R	DL016	S08T
D0009	152	UR004	S09R	DL004	S09T
D0010	152	UR008	S09R	DL008	S09T
D0011	152	UR012	S09R	DL012	S09T
D0012	152	UR016	S09R	DL016	S09T
D0013	152	UR004	S10R	DL004	S10T
D0014	152	UR008	S10R	DL008	S10T
D0015	152	UR012	S10R	DL012	S10T
D0016	152	UR016	S10R	DL016	S10T
D0017	152	UR004	S15R	DL004	S15T
D0018	152	UR008	S15R	DL008	S15T
D0019	152	UR012	S15R	DL012	S15T
D0020	152	UR016	S15R	DL016	S15T
D0021	152	UR004	S19R	DL004	S19T

D0022	152	UR008	S19R	DL008	S19T
D0023	152	UR012	S19R	DL012	S19T
D0024	152	UR016	S19R	DL016	S19T
D0025	152	UR004	S30R	DL004	S30T
D0026	152	UR008	S30R	DL008	S30T
D0027	152	UR012	S30R	DL012	S30T
D0028	152	UR016	S30R	DL016	S30T
D0029	152	UR004	S31R	DL004	S31T
D0030	152	UR008	S31R	DL008	S31T
D0031	152	UR012	S31R	DL012	S31T
D0032	152	UR016	S31R	DL016	S31T
D0033	152	UR004	S41R	DL004	S41T
D0034	152	UR008	S41R	DL008	S41T
D0035	152	UR012	S41R	DL012	S41T
D0036	152	UR016	S41R	DL016	S41T
D0037	152	UR004	S42R	DL004	S42T
D0038	152	UR008	S42R	DL008	S42T
D0039	152	UR012	S42R	DL012	S42T
D0040	152	UR016	S42R	DL016	S42T
D0041	152	UR004	S51R	DL004	S51T
D0042	152	UR008	S51R	DL008	S51T
D0043	152	UR012	S51R	DL012	S51T
D0044	152	UR016	S51R	DL016	S51T

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

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)
1	27M0G1W	27000	4	36000	0.5		4.2	17
2	2M00G2D	2000					8	35
3	316KG2D	316					8	35

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

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)
US001	US032	1		1		Noise budget re		60.47	4.93	13.1	54.7	54.7	-103.8	11.44
A0001	A0064	1		1				60.8	11.7	42.4	49.9	59.4	-103.1	11.44
B0001	B0056	1		1				60.8	11.7	42.4	49.9	59.4	-103.1	11.44
C0001	C0052	1		1				60.8	11.7	42.4	49.9	59.4	-103.1	11.44
D0001	D0044	1		1				60.8	11.7	42.4	49.9	59.4	-103.1	11.44

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

Page 10: TT and C

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): 3612	Spacecraft Dimensions (meters)	Probability of Survival to End of Life (0.0 - 1.0)
S15b. Mass of fuel and disposables at launch (kg): 3114		
S15c. Mass of spacecraft and fuel at launch (kg): 6756	S15f. Length (m): 3.7	S15i. Payload: 0.9
S15d. Mass of fuel, in orbit, at beginning of life (kg): 3632	S15g. Width (m): 3.7	S15j. Bus: 0.9
S15e. Deployed Area of Solar Array (square meters): 148	S15h. Height (m): 43.5	S15k. Total: 0.81

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): 16800	(f): 16800	(k): 16800	(p): 16800
Bus (Watts):	(b): 500	(g): 500	(l): 500	(q): 500
Total (Watts):	(c): 17300	(h): 17300	(m): 17300	(r): 17300
Solar Array (Watts):	(d): 24300	(i): 22500	(n): 20600	(s): 19100
Depth of Battery Discharge (%):	(e) 78 %	(j) 0 %	(o) 78 %	(t) 0 %

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.