

S1. GENERAL INFORMATION Complete for all satellite applications.

a. Space Station or Satellite Network Name: NEW DAWN		e. Estimated Date of Placement into Service: 6/30/2011		i. Will the space station(s) operate on a Common Carrier Basis: N	
b. Construction Commencement Date: 9/30/2008		f. Estimated Lifetime of Satellite(s): 15 Years		j. Number of transponders offered on a common carrier basis:	
c. Construction Completion Date: 11/30/2010		g. Total Number of Transponders: 39		k. Total Common Carrier Transponder Bandwidth: MHz	
d1. Est Launch Date Begin: 1/1/2011	d2. Est Launch Date End: 3/31/2011	h. Total Transponder Bandwidth (no. transponders x Bandwidth) 1872 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)		
5850	M	6550	M	R	Fixed Satellite Service
3625	M	4200	M	T	Fixed Satellite Service
14000	M	14500	M	R	Fixed Satellite Service
10950	M	11200	M	T	Fixed Satellite Service
11450	M	11700	M	T	Fixed Satellite Service

S3. ORBITAL INFORMATION FOR GEOSTATIONARY SATELLITES ONLY:

a. Nominal Orbital Longitude (Degrees E/W): 32.8 E		b. Alternate Orbital Longitude (Degrees E/W):		c. Reason for orbital location selection: Replace Galaxy 11 and complement/augument Intelsat 802 services
Longitudinal Tolerance or E/W Station-Keeping:		f. Inclination Excursion or N/S Station-Keeping Tolerance: 0.05 Degrees	Range of orbital are in which adequate service can be provided (Optional): Degrees E/W g. Westernmost: h. Easternmost:	
d. Toward West:	0.05 Degrees			
e. Toward East:				
i. Reason for service are selection (Optional):				

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S4. ORBITAL INFORMATION FOR NON-GEOSTATIONARY SATELLITES ONLY

S4a. Total Number of Satellites in Network or System:

S4c. Celestial Reference Body (Earth, Sun, Moon, etc.):

S4b. Total Number of Orbital Planes in Network or System:

S4d. Orbit Epoch Date:

For each Orbital Plane Provide:

(e) Orbital Plane No.	(f) No. of Satellites in Plane	(g) Inclination Angle (degrees)	(h) Orbital Period (Seconds)	(i) Apogee (km)	(j) Perigee (km)	(k) Right Ascension of the Ascending Node (Deg.)	(l) Argument of Perigee (Degrees)	Active Service Arc Range (Degrees)		
								(m) Begin Angle	(n) End Angle	(o) Other

S5. INITIAL SATELLITE PHASE ANGLE For each satellite in each orbital plane, provide the initial phase angle.

(a) Orbital Plane No.	(b) Satellite Number	(c) Initial Phase Angle (Degrees)

NO NGSO DATA FILED

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S6. SERVICE AREA CHARACTERISTICS for each service area provide:

(a) Service Area ID	(b) Type of Associated Station (Earth or Space)	(c) Service Area Diagram File Name (GXT File)	(d) Service Area Description. Provide list of geographic areas (state postal codes or ITU 3-ltr codes), satellites or Figure No. of Service Area Diagram.
1	S		Africa, Europe, Middle East
2	S		Southern Africa
3	S		Global

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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 Isola- tion (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)														
CHU	R	28.2	18.2	0.15	0.15	30	N		1				540	0.9	-97	21	1
CVU	R	28.2	18.2	0.15	0.15	30	N		1				540	0.9	-97	21	1
CHD	T	27.5	21.5	0.15	0.15	30	N		1	2.4	34.7	42.9					
CVD	T	27.5	21.5	0.15	0.15	30	N		1	2.4	34.7	42.9					
KHU	R	31.5	25.5	0.15	0.15	30	N		02				504	4.5	-99	21	1
KVU	R	31.5	25.5	0.15	0.15	30	N		902				504	4.5	-99	21	1
KHD	T	31	25	0.15	0.15	30	N		02	2.1	93.3	50.7					
KVD	T	31	25	0.15	0.15	30	N		902	2.1	93.3	50.7					
CMD	R	22	18	0.15	0.15		N		3				10290	-18.1	-107.2		
CMD	R	5.1	1.1	0.15	0.15		N		3				3254	-30	-95.3		
CMD	R	-2.3	-6.3	0.15	0.15		N		3				2150	-35.6	-89.7		
TLM	T	20.4	16.4	0.15	0.15		N		3	2.3	0.07	9.1					
TLM	T	5.8	1.8	0.15	0.15		N		3	4.1	4.3	12.1					
TLM	T	-0.4	-4.4	0.15	0.15		N		3	1.6	7.6	8.4					
UPC	T	20.4	17.8	0.15	0.15		N		3	2	0.32	15.4					
UPK	T	20.4	17.8	0.15	0.15		N		3	2	0.63	18.4					
UPKL	T	20.4	17.8	0.15	0.15		N		3	2	0.63	18.4					

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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
CHU	R	C	32.8		CHUP.gxt					
CVU	R	C	32.8		CVUP.gxt					
CHD	T	C	32.8		CHDN.gxt	-152	-150.3	-150.1	-150	-149.9
CVD	T	C	32.8		CVDN.gxt	-152	-150.3	-150.1	-150	-149.9
KHU	R	C	32.8		KHUP.gxt					
KVU	R	C	32.8		KVUP.gxt					
KHD	T	C	32.8		KHDN.gxt	-150	-147.5	-145	-142.5	-142.1
KVD	T	C	32.8		KVDN.gxt	-150	-147.5	-145	-142.5	-142.1
CMD	R	C	32.8		CMDG.gxt					
CMD	R	C	32.8	CMDW.pdf						
CMD	R	C	32.8	CMDO.pdf						
TLM	T	C	32.8		TLMG.gxt	-172.9	-172.8	-172.7	-172.6	-172.5
TLM	T	C	32.8	TLMW.pdf		-169.9	-169.8	-169.7	-169.6	-169.5
TLM	T	C	32.8	TLMO.pdf		-173.6	-173.5	-173.4	-173.3	-173.2
UPC	T	C	32.8		UPCR.gxt	-155.8	-155.7	-155.6	-155.5	-155.4
UPK	T	C	32.8		UPKR.gxt	-152.8	-152.7	-152.6	-152.5	-152.4
UPKL	T	C	32.8		UPKL.gxt	-152.8	-152.7	-152.6	-152.5	-152.4

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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)
UC1	72000	R	5890	L	C
UC3	36000	R	5950	L	C
UC5	36000	R	5990	L	C
UC7	72000	R	6050	L	C
UC9	72000	R	6130	L	C
UC11	72000	R	6220	L	C
UC13	72000	R	6300	L	C
UC15	72000	R	6380	L	C
UC17	36000	R	6450	L	C
UC19	36000	R	6490	L	C
UC21	36000	R	6530	L	C
UC2	72000	R	5890	R	C
UC4	72000	R	5970	R	C
UC6	72000	R	6050	R	C
UC8	72000	R	6130	R	C
UC10	72000	R	6220	R	C
UC12	72000	R	6300	R	C
UC14	72000	R	6380	R	C
UC16	36000	R	6450	R	C
UC18	36000	R	6490	R	C
UC20	36000	R	6530	R	C
DC1	72000	T	3665	R	C
DC3	36000	T	3725	R	C
DC5	36000	T	3765	R	C
DC7	72000	T	3825	R	C
DC9	72000	T	3905	R	C
DC11	72000	T	3995	R	C
DC13	72000	T	4075	R	C
DC15	72000	T	4155	R	C
DC2	72000	T	3665	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
CC001	121.4	UC1	CHUP	DC1	CVDN
CC003	121.4	UC3	CHUP	DC3	CVDN
CC005	121.4	UC5	CHUP	DC5	CVDN
CC007	121.4	UC7	CHUP	DC7	CVDN
CC009	121.4	UC9	CHUP	DC9	CVDN
CC011	121.4	UC11	CHUP	DC11	CVDN
CC013	121.4	UC13	CHUP	DC13	CVDN
CC015	121.4	UC15	CHUP	DC15	CVDN
CC002	121.4	UC2	CVUP	DC2	CHDN
CC004	121.4	UC4	CVUP	DC4	CHDN
CC006	121.4	UC6	CVUP	DC6	CHDN
CC008	121.4	UC8	CVUP	DC8	CHDN
CC010	121.4	UC10	CVUP	DC10	CHDN
CC012	121.4	UC12	CVUP	DC12	CHDN
CC014	121.4	UC14	CVUP	DC14	CHDN
KK001	131.7	UK001	KHUP	DK001	KVDN
KK003	131.7	UK003	KHUP	DK003	KVDN
KK005	131.7	UK005	KHUP	DK005	KVDN
KK007	131.7	UK007	KHUP	DK007	KVDN
KK009	131.7	UK009	KHUP	DK009	KVDN
KK011	131.7	UK011	KHUP	DK011	KVDN
KK013	131.7	UK013	KHUP	DK013	KVDN
KK015	131.7	UK015	KHUP	DK015	KVDN
KK017	131.7	UK017	KHUP	DK017	KVDN
KK019	131.7	UK019	KHUP	DK019	KVDN
KK021	131.7	UK021	KHUP	DK021	KVDN
KK023	131.7	UK023	KHUP	DK023	KVDN
KK002	131.7	UK002	KVUP	DK002	KHDN
KK004	131.7	UK004	KVUP	DK004	KHDN
KK006	131.7	UK006	KVUP	DK006	KHDN

DC4	72000	T	3745	L	C
DC6	72000	T	3825	L	C
DC8	72000	T	3905	L	C
DC10	72000	T	3995	L	C
DC12	72000	T	4075	L	C
DC14	72000	T	4155	L	C
UK001	36000	R	14025	H	C
UK003	36000	R	14065	H	C
UK005	36000	R	14105	H	C
UK007	36000	R	14145	H	C
UK009	36000	R	14185	H	C
UK011	36000	R	14225	H	C
UK013	36000	R	14275	H	C
UK015	36000	R	14315	H	C
UK017	36000	R	14355	H	C
UK019	36000	R	14395	H	C
UK021	36000	R	14435	H	C
UK023	36000	R	14475	H	C
UK002	36000	R	14025	V	C
UK004	36000	R	14065	V	C
UK006	36000	R	14105	V	C
UK008	36000	R	14145	V	C
UK010	36000	R	14185	V	C
UK012	36000	R	14225	V	C
UK014	36000	R	14275	V	C
UK016	36000	R	14315	V	C
UK018	36000	R	14355	V	C
UK020	36000	R	14395	V	C
UK022	36000	R	14435	V	C
UK024	36000	R	14475	V	C
DK001	36000	T	10975	V	C
DK003	36000	T	11015	V	C
DK005	36000	T	11055	V	C
DK007	36000	T	11095	V	C
DK009	36000	T	11135	V	C
DK011	36000	T	11175	V	C
DK013	36000	T	11475	V	C
DK015	36000	T	11515	V	C
DK017	36000	T	11555	V	C

KK008	131.7	UK008	KVUP	DK008	KHDN
KK010	131.7	UK010	KVUP	DK010	KHDN
KK012	131.7	UK012	KVUP	DK012	KHDN
KK014	131.7	UK014	KVUP	DK014	KHDN
KK016	131.7	UK016	KVUP	DK016	KHDN
KK018	131.7	UK018	KVUP	DK018	KHDN
KK020	131.7	UK020	KVUP	DK020	KHDN
KK022	131.7	UK022	KVUP	DK022	KHDN
KK024	131.7	UK024	KVUP	DK024	KHDN
CK002	125.5	UC3	CHUP	DK002	KHDN
CK004	125.5	UC5	CHUP	DK004	KHDN
CK017	126.2	UC17	CHUP	DK014	KHDN
CK019	126.2	UC19	CHUP	DK016	KHDN
CK021	126.2	UC21	CHUP	DK018	KHDN
CK016	126.2	UC16	CVUP	DK020	KHDN
CK018	126.2	UC18	CVUP	DK022	KHDN
CK020	126.2	UC20	CVUP	DK024	KHDN
KC003	127.3	UK002	KVUP	DC3	CVDN
KC005	127.3	UK004	KVUP	DC5	CVDN

DK019	36000	T	11595	V	C
DK021	36000	T	11635	V	C
DK023	36000	T	11675	V	C
DK002	36000	T	10975	H	C
DK004	36000	T	11015	H	C
DK006	36000	T	11055	H	C
DK008	36000	T	11095	H	C
DK010	36000	T	11135	H	C
DK012	36000	T	11175	H	C
DK014	36000	T	11475	H	C
DK016	36000	T	11515	H	C
DK018	36000	T	11555	H	C
DK020	36000	T	11595	H	C
DK022	36000	T	11635	H	C
DK024	36000	T	11675	H	C
CMD1	1000	R	6170	R	T
CMD2	1000	R	6175	L	T
CMD3	1000	R	6175	R	T
TLM1	500	T	3944	R	T
TLM2	500	T	3945	R	T
TLM3	500	T	3944	L	T
TLM4	500	T	3945	L	T
TLM5	500	T	3944	R	T
TLM6	500	T	3945	R	T
UPC1	25	T	3626	R	T
UPC2	25	T	11196	R	T
UPC3	25	T	11699	L	T

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S11. DIGITAL MODULATION PARAMETERS For each digital emission provide:

(a) Digital Mod. ID	(b) Emission Designator	(c) Assigned Bandwidth (kHz)	(d) No. of Phases	(e) Uncoded Data Rate (kbps)	(f) FEC Error Correction Coding Rate	(g) CDMA Processing Gain (dB)	(h) Total C/N Performance Objective (dB)	(i) Single Entry C/I Objective (dB)
1	72M0G7W	60266	4	73726	0.75		6.1	11.5
2	36M0G7W	30133	4	36863	0.75		6.1	20.5
3	10M3G7W	6771.1	4	6000	0.5		3.9	17.7
4	100KG7W	75.4	4	64	0.5		3	17.3
5	1M45G7W	1229	2	512	0.5		3.4	14.6
6	400KG7W	307	2	128	0.5		3.4	14.7

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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						
1	36M0F3F	36000	TV/FM	1					PAL	15.6	1.5		10	22

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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)		EIRP (dBW)		(n) Max. Power Flux Density (dBW/m ² /Hz)	(o) Assoc. Stn Rec. G/T (dB/K)
									(j) Min.	(k) Max.	(l) Min.	(m) Max.		
KK001	KK024		1	1		NEW DAWN LI	4000	58.1	17.8	23.8	44.7	50.7	-141.4	24.5
KK001	KK024	2		1		NEW DAWN S		58.1	17.8	23.8	41.5	47.5	-153.4	24.5
KK001	KK024	3		3	10300	NEW DAWN S		58.1	-2.5	3.5	36	42	-152.4	21.8
KK001	KK024	4		337	100	NEW DAWN S		58.1	-20	-16.7	15.9	21.9	-153	21.8
KK001	KK024	5		21	1450	NEW DAWN S		58.1	-10.7	-4.7	27.9	33.9	-153.1	21.8
KK001	KK024	6		90	400	NEW DAWN S		46.4	-8.5	-2.5	18.4	24.4	-156.6	34.1
CK002	CK021		1	1		NEW DAWN S	4000	58.4	15.5	25.5	37.6	43.6	-148.5	32.6
CK002	CK021	2		1		NEW DAWN S		58.4	15.5	25.5	37.6	43.6	-157.3	26.2
CK002	CK021	3		3	10300	NEW DAWN S		51	11.8	21.8	36.3	42.3	-152.1	18.3
CK002	CK021	4		330	100	NEW DAWN S		51	-8.5	1.5	16	22	-152.9	18.3
KC003	KC005		1	1		NEW DAWN S	4000	58	17.9	23.9	36.9	42.9	-149.2	23.2
KC003	KC005	2		1		NEW DAWN S		58	17.9	23.9	36.9	42.9	-158	20.5
KC003	KC005	3		2	10300	NEW DAWN S		58	2.4	8.4	29.7	35.7	-158.7	18.7
KC003	KC005	4		235	100	NEW DAWN S		58	-17.6	-11.6	9.7	15.7	-159.2	18.7
CC003	CC005		1	1		NEW DAWN S	4000	52.5	19.4	25.4	36.9	42.9	-149.2	25.8
CC003	CC005	2		1		NEW DAWN S		50.7	17.2	23.2	36.9	42.9	-158	20.5
CC003	CC005	3		2	10300	NEW DAWN S		50.7	10	16	29.4	35.4	-159	18.7
CC003	CC005	4		274	100	NEW DAWN S		50.7	-10.4	4.4	9	15	-159.9	18.7
CC001	CC015		1	2	36000	NEW DAWN S	4000	51	19.9	25.9	32.7	38.7	-153.4	29.4
CC001	CC015	1		1		NEW DAWN S		51	17.9	23.9	36.9	42.9	-161	23.6
CC001	CC015	3		5	10300	NEW DAWN S		51	11.5	17.5	26.2	32.2	-162.2	19.2
CC001	CC015	4		573	100	NEW DAWN S		51	-8.9	-2.9	5.8	11.8	-163.1	19.2

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S14. Is the space station(s) controlled and monitored remotely? If Yes, provide the location and telephone number of the TT and C control point(s): Yes

Remote Control (TT C) Location(s):

S14a: Street Address: 3400 International Drive, N.W.			
S14b. City: Washington, D.C.	S14c. County:	S14d. State/Country DC	S14e. Zip Code: 20008
S14f. Telephone Number: 202-944-7701		S14g. Call Sign of Control Station (if appropriate):	

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Characteristics and
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S15. SPACECRAFT PHYSICAL CHARACTERISTICS:

S15a. Mass of spacecraft without fuel (kg): 2248	Spacecraft Dimensions (meters)	Probability of Survival to End of Life (0.0 - 1.0)
S15b. Mass of fuel and disposables at launch (kg): 3140		
S15c. Mass of spacecraft and fuel at launch (kg): 5388	S15f. Length (m): 22.5	S15i. Payload: 0.95
S15d. Mass of fuel, in orbit, at beginning of life (kg): 810	S15g. Width (m): 5.2	S15j. Bus: 0.85
S15e. Deployed Area of Solar Array (square meters): 74.5	S15h. Height (m): 7.5	S15k. Total: 0.8

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): 7950	(f): 7950	(k): 7950	(p): 7950
Bus (Watts):	(b): 930	(g): 890	(l): 930	(q): 890
Total (Watts):	(c): 8880	(h): 8840	(m): 8880	(r): 8840
Solar Array (Watts):	(d): 11960	(i): 10560	(n): 11390	(s): 10060
Depth of Battery Discharge (%):	(e) 52.1 %	(j) %	(o) 69.6 %	(t) %

S17. CERTIFICATIONS:

a. Are the power flux density limits of § 25.208 met?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
b. Are the appropriate service area coverage requirements of § 25.143(b)(ii) and (iii), or § 25.145(c)(1) and (2) met?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A
c. Are the frequency tolerances of § 25.202(e) and the out-of-band emission limits of § 25.202(f)(1), (2) and (3) met?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A

In addition to the information required in this Form, the space station applicant is required to provide all the information specified in Section 25.114 of the Commission's rules, 47 C.F.R § 25.114.