FCC 312 Schedule S	FEDERAL COMMUNICATIONS COMMISSION SATELLITE SPACE STATION AUTHORIZATIONS (Technical and Operational Description)	Page 1: General, Frequency Bands, and GSO Orbit

S1. GENERAL INFORMATION Complete for all satellite applications.

a. Space Station or Satellite Network Name: AMC-22		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): 15 Years	j. Number of transponders offered on a common carrier basis: 0
c. Construction Completion Date:		g. Total Number of Transponders: 28	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) 960.4 MHz	l. Orbit Type: Mark all boxes that apply: [X] GSO [ ] 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)		
17.300	G	17.800	G	T	Broadcasting Satellite Service - Video
24.75	G	25.25	G	R	Feeder Link for Broadcasting Satellite Service in FSS

S3. ORBITAL INFORMATION FOR GEOSTATIONARY SATELLITES ONLY:

a. Nominal Orbital Longitude (Degrees E/W): 67.5 W	b. Alternate Orbital Longitude (Degrees E/W):		c. Reason for orbital location selection: Availability of spectrum
Longitudinal Tolerance or E/W Station-Keeping: d. Toward West: 0.05 Degrees e. Toward East: 0.05 Degrees	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:	
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:

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

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

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 intital 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.
C-UL	S		CONUS, -8 dB contour
C-DL	S		CONUS, -6 dB contour
M-UL	S		Mexico, -10 dB contour
M-DL	S		Mexico, -10 dB contour
B-UL	S		Brazil, -10 dB contour
B-DL	S		Brazil, -6 dB contour
S-UL	S		South Americal (excluding Brazil), -10 dB contour
S-DL	S		South America (excluding Brazil), -10 dB contour

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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) Polarization Switchable? (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 Noice 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
RCL	R	33.9	25.9	0.15	0	30	Y		C-UL				600	6	-93	20	1
RCR	R	33.9	25.9	0.15	0	30	Y		C-UL				60	6	-93	20	1
TCL	T	36.4	28.4	0.15	0	30	Y		C-DL	1.5	200	59.4					
TCR	T	36.4	28.4	0.15	0	30	Y		C-DL	1.5	200	59.4					
RML	R	33.9	25.9	0.15	0	30	Y		M-UL				600	6	-93	20	1
RMR	R	33.9	25.9	0.15	0	30	Y		M-UL				600	6	-93	20	1
TML	T	37.1	29.1	0.15	0	30	Y		M-DL	2.2	170	59.4					
TMR	T	37.1	29.1	0.15	0	30	Y		M-DL	2.2	170	59.4					
RBL	R	33.9	27.9	0.15	0	30	Y		B-UL				600	6	-93	20	1
RBR	R	33.9	27.9	0.15	0	30	Y		B-UL				600	6	-93	20	1
TBL	T	35.2	29.2	0.15	0	30	Y		B-DL	1.2	210	58.5					
TBR	T	35.2	29.2	0.15	0	30	Y		B-DL	1.2	210	58.5					
RSL	R	34.6	27.3	0.15	0	30	Y		S-UL				600	6.8	-93	20	1
RSR	R	34.6	27.3	0.15	0	30	Y		S-UL				600	6.8	-93	20	1
TSL	T	34.1	26.1	0.15	0	30	Y		S-DL	1.3	210	57.3					
TSR	T	34.1	26.1	0.15	0	30	Y		S-DL	1.3	210	57.3					

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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
TCL	T	C	-67.5		CON_DL_LHPC.gxt	-126.5	-128	-126.5	-126	-123
TCR	T	C	-67.5		CON_DL_RHPC.gxt	-126.5	-128	-126.5	-126	-123
TML	T	C	-67.5		MEX_DL_LHPC.gxt	-159	-154	-149	-144	-139
TMR	T	C	-67.5		MEX_DL_RHPC.gxt	-159	-154	-149	-144	-139
TBL	T	C	-67.5		BRAZ_DL_LHCP.gxt	-189.9	-185.9	-183.9	-181.9	-179.9
TBR	T	C	-67.5		BRAZ_DL_RHCP.gxt	-189.9	-185.9	-183.9	-181.9	-179.9
TSL	T	C	-67.5		PANISH_DL_LHPC.g	-161.1	-158.6	-156.1	-154.1	-151.1
TSR	T	C	-67.5		PANISH_DL_RHPC.g	-161.1	-158.6	-156.1	-154.1	-151.1
RCL	R	C	-67.5		CON_UL_LHPC.gxt					
RCR	R	C	-67.5		CON_UL_RHPC.gxt					
RML	R	C	-67.5		MEX_UL_LHPC.gxt					
RMR	R	C	-67.5		MEX_UL_RHPC.gxt					
RBL	R	C	-67.5		BRAZ_UL_LHCP.gxt					
RBR	R	C	-67.5		BRAZ_UL_RHCP.gxt					
RSL	R	C	-67.5							
RSR	R	C	-67.5							

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S9. SPACE STATION CHANNELS For each frequency channel 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)
NAU1	31000	R	24769.15	L	C
NAU2	31000	R	24786.30	R	C
NAU3	31000	R	24803.45	L	C
NAU4	31000	R	24820.60	R	C
NAU5	31000	R	24837.75	L	C
NAU6	31000	R	24854.90	R	C
NAU7	31000	R	24872.05	L	C
NAU8	31000	R	24889.20	R	C
NAU9	31000	R	24906.35	L	C
NAU10	31000	R	24923.50	R	C
NAU11	31000	R	24940.65	L	C
NAU12	31000	R	24957.80	R	C
NAU13	31000	R	24974.95	L	C
NAU14	31000	R	24992.10	R	C
NAU15	31000	R	25009.25	L	C
NAU16	31000	R	25026.40	R	C
NAU17	31000	R	25043.55	L	C
NAU18	31000	R	25060.70	R	C
NAU19	31000	R	25077.85	L	C
NAU20	31000	R	25095.00	R	C
NAU21	31000	R	25112.15	L	C
NAU22	31000	R	25129.30	R	C
NAU23	31000	R	25146.45	L	C
NAU24	31000	R	25163.60	R	C
NAU25	31000	R	25180.75	L	C
NAU26	31000	R	25197.90	R	C
NAU27	31000	R	25215.05	L	C
NAU28	31000	R	25232.20	R	C
NAD1	31000	T	17319.15	R	C
NAD2	31000	T	17336.30	L	C

S10. SPACE STATION TRANSPONDERS For each transponder provide:

(a) Transponder ID	(b) Transponder Gain (dB)	Receive Band		Transmit Band	
		(c) Channel No.	(d) Beam ID	(e) Channel No.	(f) Beam ID
CON01	120	NAU1	RCL	NAD1	TCR
CON02	120	NAU2	RCR	NAD2	TCL
CON03	120	NAU3	RCL	NAD3	TCR
CON04	120	NAU4	RCR	NAD4	TCL
CON05	120	NAU5	RCL	NAD5	TCR
CON06	120	NAU6	RCR	NAD6	TCL
CON07	120	NAU7	RCL	NAD7	TCR
CON08	120	NAU8	RCR	NAD8	TCL
CON09	120	NAU9	RCL	NAD9	TCR
CON10	120	NAU10	RCR	NAD10	TCL
CON11	120	NAU11	RCL	NAD11	TCR
CON12	120	NAU12	RCR	NAD12	TCL
CON13	120	NAU13	RCL	NAD13	TCR
CON14	120	NAU14	RCR	NAD14	TCL
CON15	120	NAU15	RCL	NAD15	TCR
CON16	120	NAU16	RCR	NAD16	TCL
CON17	120	NAU17	RCL	NAD17	TCR
CON18	120	NAU18	RCR	NAD18	TCL
CON19	120	NAU19	RCL	NAD19	TCR
CON20	120	NAU20	RCR	NAD20	TCL
CON21	120	NAU21	RCL	NAD21	TCR
CON22	120	NAU22	RCR	NAD22	TCL
MEX01	120	NAU23	RML	NAD23	TMR
MEXO2	120	NAU24	RMR	NAD24	TML
MEX03	120	NAU25	RML	NAD25	TMR
MEX04	120	NAU26	RMR	NAD26	TML
MEX05	120	NAU27	RML	NAD27	TMR
MEX06	120	NAU28	RMR	NAD28	TML
BRZ01	120	SAU1	RBL	SAD1	TBR
BRZ02	120	SAU2	RBR	SAD2	TBL

NAD3	31000	T	17353.45	R	C
NAD4	31000	T	17370.60	L	C
NAD5	31000	T	17387.75	R	C
NAD6	31000	T	17404.90	L	C
NAD7	31000	T	17422.05	R	C
NAD8	31000	T	17439.20	L	C
NAD9	31000	T	17456.35	R	C
NAD10	31000	T	17473.50	L	C
NAD11	31000	T	17490.65	R	C
NAD12	31000	T	17507.80	L	C
NAD13	31000	T	17524.95	R	C
NAD14	31000	T	17542.10	L	C
NAD15	31000	T	17559.25	R	C
NAD16	31000	T	17576.40	L	C
NAD17	31000	T	17593.55	R	C
NAD18	31000	T	17610.70	L	C
NAD19	31000	T	17627.85	R	C
NAD20	31000	T	17645.00	L	C
NAD21	31000	T	17662.15	R	C
NAD22	31000	T	17679.30	L	C
NAD23	31000	T	17696.45	R	C
NAD24	31000	T	17713.60	L	C
NAD25	31000	T	17730.75	R	C
NAD26	31000	T	17747.90	L	C
NAD27	31000	T	17765.05	R	C
NAD28	31000	T	17782.20	L	C
SAU1	31000	R	24769.15	L	C
SAU2	31000	R	24786.30	R	C
SAU3	31000	R	24803.45	L	C
SAU4	31000	R	24820.60	R	C
SAU5	31000	R	24837.75	L	C
SAU6	31000	R	24854.90	R	C
SAU7	31000	R	24872.05	L	C
SAU8	31000	R	24889.20	R	C
SAU9	31000	R	24906.35	L	C
SAU10	31000	R	24923.50	R	C
SAU11	31000	R	24940.65	L	C
SAU12	31000	R	24957.80	R	C
SAU13	31000	R	24974.95	L	C

BRZ03	120	SAU3	RBL	SAD3	TBR
BRZ04	120	SAU4	RBR	SAD4	TBL
BRZ05	120	SAU5	RBL	SAD5	TBR
BRZ06	120	SAU6	RBR	SAD6	TBL
BRZ07	120	SAU7	RBL	SAD7	TBR
BRZ08	120	SAU8	RBR	SAD8	TBL
BRZ09	120	SAU9	RBL	SAD9	TBR
BRZ10	120	SAU10	RBR	SAD10	TBL
BRZ11	120	SAU11	RBL	SAD11	TBR
BRZ12	120	SAU12	RBR	SAD12	TBL
BRZ13	120	SAU13	RBL	SAD13	TBR
BRZ14	120	SAU14	RBR	SAD14	TBL
SPN01	120	SAU15	RSL	SAD15	TSR
SPN02	120	SAU16	RSR	SAD16	TSL
SPN03	120	SAU17	RSL	SAD17	TSR
SPN04	120	SAU18	RSR	SAD18	TSL
SPN05	120	SAU19	RSL	SAD19	TSR
SPN06	120	SAU20	RSR	SAD20	TSL
SPN07	120	SAU21	RSL	SAD21	TSR
SPN08	120	SAU22	RSR	SAD22	TSL
SPN09	120	SAU23	RSL	SAD23	TSR
SPN10	120	SAU24	RSR	SAD24	TSL
SPN11	120	SAU25	RSL	SAD25	TSR
SPN12	120	SAU26	RSR	SAD26	TSL
SPN13	120	SAU27	RSL	SAD27	TSR
SPN14	120	SAU28	RSR	SAD28	TSL
CMD1		TC1	RCL		
CMD2		TC2	RCR		
TLMA				TLM1	TCR
TLMB				TLM2	TCL

SAU14	31000	R	24992.10	R	C
SAU15	31000	R	25009.25	L	C
SAU16	31000	R	25026.40	R	C
SAU17	31000	R	25043.55	L	C
SAU18	31000	R	25060.70	R	C
SAU19	31000	R	25077.85	L	C
SAU20	31000	R	25095.00	R	C
SAU21	31000	R	25112.15	L	C
SAU22	31000	R	25129.30	R	C
SAU23	31000	R	25146.45	L	C
SAU24	31000	R	25163.60	R	C
SAU25	31000	R	25180.75	L	C
SAU26	31000	R	25197.90	R	C
SAU27	31000	R	25215.05	L	C
SAU28	31000	R	25232.20	R	C
SAD1	31000	T	17319.15	R	C
SAD2	31000	T	17336.30	L	C
SAD3	31000	T	17353.45	R	C
SAD4	31000	T	17370.60	L	C
SAD5	31000	T	17387.75	R	C
SAD6	31000	T	17404.90	L	C
SAD7	31000	T	17422.05	R	C
SAD8	31000	T	17439.20	L	C
SAD9	31000	T	17456.35	R	C
SAD10	31000	T	17473.50	L	C
SAD11	31000	T	17490.65	R	C
SAD12	31000	T	17507.80	L	C
SAD13	31000	T	17524.95	R	C
SAD14	31000	T	17542.10	L	C
SAD15	31000	T	17559.25	R	C
SAD16	31000	T	17576.40	L	C
SAD17	31000	T	17593.55	R	C
SAD18	31000	T	17610.70	L	C
SAD19	31000	T	17627.85	R	C
SAD20	31000	T	17645.00	L	C
SAD21	31000	T	17662.15	R	C
SAD22	31000	T	17679.30	L	C
SAD23	31000	T	17696.45	R	C
SAD24	31000	T	17713.60	L	C

SAD25	31000	T	17730.75	R	C
SAD26	31000	T	17747.90	L	C
SAD27	31000	T	17765.05	R	C
SAD28	31000	T	17782.20	L	C
TC1	1000	R	24752	L	T
TC2	1000	R	24753	R	T
TLM1	1000	T	17302	R	T
TLM2	1000	T	17303	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)
A	31M0G7W	31000	4	39000	0.75		4.4	18
B	31M0G7W	31000	4	45500	0.875		6.2	18
C	31M0G7W	31000	8	46800	0.6		6.1	18

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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						
D	800KF9D	800											10	18
E	300KF9D	300											9	18

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S13. TYPICAL EMISSIONS For each planned type of emission provide:

Associated Transponder ID Range		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)			
								(i)Assoc. Stn. Max. Antenna Gain (dBi)	Assoc. Station Transmit Power (dBW)		EIRP (dBW)		(n) Max. Power Flux Density (dBW/m2/Hz)	(o)Assoc. Stn Rec. G/T (dB/K)
(a) Start	(b) End	(c) Digital (Table S11)	(d) Analog (Table S12)						(j) Min.	(k) Max.	(l) Min.	(m) Max.		
CON01	CON22	A		1		link budgets.xls		68	10	16	51.4	59.4	-119	16
BRZ01	BRZ14	A		1		link budgets.xls		68	10	16	52.5	58.5	-119.9	16
SPN01	SPN14	A		1		link budgets.xls		68	10	16	50.3	57.3	-121.1	16
CON01	CON22	B		1		link budgets.xls		68	10	16	51.4	59.4	-119	16
CON01	CON22	C		1		link budgets.xls		68	10	16	51.4	59.4	-119	16
MEX01	MEX06	C		1		link budgets.xls		68	10	16	51.4	59.4	-119	16
CMD1	CMD2		D	1		TT_C budets.xl		65	-10	8				

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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: Woodbine TT&C			
S14b. City: Mt. Airy	S14c. County:	S14d. State/Country MD	S14e. Zip Code: 21771
S14f. Telephone Number: 410-549-4300	S14g. Call Sign of Control Station (if appropriate): E7169		

Remote Control (TT C) Location(s):

S14a: Street Address: Vernon Valley Spacecraft			
S14b. City: Sussex	S14c. County:	S14d. State/Country NJ	S14e. Zip Code: 07461
S14f. Telephone Number: 973-823-6000	S14g. Call Sign of Control Station (if appropriate): WB81		

Remote Control (TT C) Location(s):

S14a: Street Address:			
S14b. City:	S14c. County:	S14d. State/Country	S14e. Zip Code:
S14f. Telephone Number:	S14g. Call Sign of Control Station (if appropriate):		

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S15. SPACECRAFT PHYSICAL CHARACTERISTICS:

S15a: Mass of spacecraft without fuel (kg): 2755	Spacecraft Dimensions (meters)	Probability of Survival to End of Life (0.0 - 1.0)
S15b. Mass of fuel and disposables at launch (kg): 5985		
S15c. Mass of spacecraft and fuel at launch (kg): 5870	S15f. Length (m): 2.2	S15i. Payload: 0.82
S15d. Mass of fuel, in orbit, at beginning of life (kg): 1050	S15g. Width (m): 2	S15j. Bus: 0.91
S15e. Deployed Area of Solar Array (square meters): 120	S15h. Height (m): 5.5	S15k. Total: 0.72

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): 11600	(f): 11600	(k): 11600	(p): 11600
Bus (Watts):	(b): 2350	(g): 1430	(l): 2280	(q): 1320
Total (Watts):	(c): 13950	(h): 13030	(m) 13880	(r): 12920
Solar Array (Watts):	(d): 19380	(i): 17280	(n): 15300	(s): 14200
Depth of Battery Discharge (%):	(e) 60 %	(j) %	(o) 64 %	(t) %

S17. CERTIFICATIONS:

a. Are the power flux density limits of § 25.208 met?:	X	**YES**		**NO**		**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?		**YES**		**NO**	X	**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?	X	**YES**		**NO**		**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.