Schedule S - GSO

Satellite DRAFT-SAT-LOA-2024072	4-00042		Schedule S Review	Form 312	Schedule S Instructions	Save Recor
File Number	0	Call S	ign			
	S1. Satel	lite Information				
a. Space Station or Satellite Network Name b. Orbit Type	Geostationary (GSO)	c. Estimated Operational Lifetime Space Station(s) From Date Launch (y d. Will the space station(s) oper on a Common Carrier bas	e of rs) ate Yes		30	
e. Application Description	Testing					
Schedule S Review Form 312	Schedule S Instructions Save Record					
S2. Operating Frequency Bands S3 S7. Space-to-Space (Transmit) Beams	8. GSO Orbital Information (1) S4. Earth-to-Space (Receive) Beams S8. Attachments	S5. Space-to-Earth (Transmit) Beams	S6. Space-to-Space (R	eceive) Beams		
=					0	- New
a. Type of Service 🔺 b. If	a. is Other, provide a service description c. Satellite Frequer	ncy Band (MHz) d. Satellite Freque	ency (Lower Band Edge)	(MHz)	e. Satellite Frequency (Up	oper Band Edg

S2 Operating Frequency Bands

Correction Service			··· Schedule S Instructions
Form 312 Number File Number	Q DRAFT-SAT-LOA-20240724-00042	Call Sign	
		S2. Operating Frequency Bands	
a. Type of Service	Q	f. Direction of Transmission	None 🗸
b. If a. is Other, provide a service de- scription ⑦		g. Non Conforming Indicator	
c. Satellite Frequency Band (MHz)	Q If your Frequency Band is not listed, click the magnifying glass and select "Other" to manually enter the Frequency Band.		
d. Satellite Frequency (Lower Band Edge) (MHz) ⑦			
e. Satellite Frequency (Upper Band Edge) (MHz) ⑦			
Schedule S Instructions Save Reco	ord		

S3. GSO Orbital Information

GSO Orbital Information DRAFT-SAT-LOA-20240724-00042				Return to Main Menu	Schedule S Instructions					
File Number	DRAFT-SAT-LOA-20240724-00042	① Call Sign								
S3. GSO Orbital Information										
a. Orbital Longitude (°)	53	g. Maximum Orbital Eccentricity								
b. Hemisphere of Orbital Longitude (E/W)	West	h. Antenna Axis Attitude Accuracy: Roll (°)			2					
c. East/West Station-Keeping Range: Toward East (°)	1	i. Antenna Axis Attitude Accuracy: Pitch (°)			0					
d. East/West Station-Keeping Range: Toward West (°)	0.6	j. Antenna Axis Attitude Accuracy: Yaw (°)			1					
e. North/South Station-Keeping Range: Toward North (°)	3									
f. North/South Station-Keeping Range: Toward South (°)	4									
Return to Main Menu Schedule S Instru	Ictions Save Record									

S4. Earth-to-Space (Receive) Beams

		S4. Earth-to-Space (Receive) Beams		
★ a. Beam ID ⑦	[n. Beam Peak Flux Density at Command Threshold (dBW/m²) ⑦		
★ b. Beam Frequency (Lower Band Edge) (MHz) ⑦		o. Peak Isotropic Antenna Gain (dBi)		
* c. Beam Frequency (Upper Band Edge) (MHz) ⑦		p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi)		
st d. Polarization $@$	Q	q. Antenna Pointing Error (°)		
e. Can the space station vary the channel bandwidth with on-board processing?	None 🗸	r. Antenna Rotational Error (°)		
f. Is this a command beam? (Check box if Yes)		s. Will a GIMS container file containing all antenna contour data be provided?	None 🗸	
g. Is the beam shapeable? (Check box if Yes)		t. Under what rules will the associated an- tenna contours be submitted?	A	
h. Is the beam steerable? (Check box if Yes)		u. Provide a list of each orbital plane in which this antenna beam is used. ⑦		
i. Is the beam fed into transponders? (Check box if Yes)		v. Are all space stations in the NGSO con- stellation identical? ⑦	None	
\star j. Maximum G/T (dB/K) 💿		w. What information will be provided with the predicted antenna gain contours? ⑦	None	
k. Minimum G/T (dB/K)]		
I. Maximum Saturation Flux Density (dBW/m²) ⑦				
m. Minimum Saturation Flux Density (dBW/m²) ⑦				
Please click the "Save Record" button to ge	nerate a table to enter the associated channel inform	nation under the "x. Receive Channels" tab, and to attach the required $\$25.114(c)$)(4)(vi) or §25.114(c)(4)(vii) documentation under the	"z. Beam Attachments" tab.
	лл			
x. Receive Channels z. Beam Attachm	nents			
=				O – New
(i) Channel ID 🔺 (ii) Channe	el Bandwidth (MHz) (iii) Center Frequency	(MHz) (iv) Channel Frequency (Lower Band Edge) (MHz) (v) Ch	nannel Frequency (Upper Band Edge) (MHz)	(vi) Channel Type (vii) Point of



Channel New record				Return to Beam Information	Schedule S Instruc
File Number		Call Sign			
		x. Channels			
Beam ID	25	(i) Channel ID	[
Beam Frequency Band (MHz) ②	-	(ii) Channel Bandwidth (MHz)			[
		(iii) Center Frequency (MHz)			J
		(iv) Channel Frequency (Lower Band Edge) (MHz)			
		(v) Channel Frequency (Upper Band Edge) (MHz)			
		(vi) Channel Type	None	v	

				• Return to Beam Information	Schedule S Instructio
Satellite		Ca	Sign		
		Attachments			
Beam ID		(i) Document		v]
	Use this field to link the attachment directly to a beam. (Optional for all other attachments.)	(ii) If Document Type is "Other", pr short descripti	ovide on ②		
Direction of Transmission	None	(iii) File	lame Click to add		
Return to Beam Information Schedule	S Instructions Save Record				

S5. Space-to-Earth (Transmit) Beams

Space to Earth Transmit New record				Schedule S Instructions
		S5. Space-to-Earth (Transmit) Beams		
★ a. Beam ID ⑦		n. Beam Peak Flux Density at Command Threshold (dBW/m ³) (0)		
* b. Beam Frequency (Lower Band Edge) (MHz) ⑦		o. Peak Isotropic Antenna Gain (dBi)		
* c. Beam Frequency (Upper Band Edge) (MHz) ⑦		p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi)		
$*$ d. Polarization \oslash	Q	q. Antenna Pointing Error (°)		
e. Can the space station vary the channel bandwidth with on-board processing?	None 👻	r. Antenna Rotational Error (°)		
f. Is this a command beam? (Check box if Yes) ⑦		s. Will a GIMS container file containing all antenna contour data be provided?	None 👻	
g. Is the beam shapeable? (Check box if Yes)		t. Under what rules will the associated an- tenna contours be submitted?		
h. Is the beam steerable? (Check box if Yes)		u. Provide a list of each orbital plane in which this antenna beam is used. \textcircled{O}		
i. Is the beam fed into transponders? (Check box if Yes)		v. Are all space stations in the NGSO con- stellation identical? ⑦	None	
① ★ j. Maximum Transmit EIRP Density (dBW/Ref BW) ⑦		w. What information will be provided with the predicted antenna gain contours? ⑦	None	
★ k. Maximum Transmit EIRP (dBW) ②				
I. Minimum Cross-Polar Isolation within Service Area (dB)				
m. Minimum Saturation Flux Density (dBW/m²) ⑦				

Return to Main Menu Clone Beam	Schedule S Instructions	Clone Beam with Channels/PFDs	Create Channels in Bulk	Save Record Delete Record]		
x. Transmit Channels y. Max. Power-Flux	Densities z. Beam Att	achments					
=							⊚ − New
(i) Channel ID 🔺 (ii) Channel B	andwidth (MHz)	(iii) Center Frequency (MHz) (iv) Channel Frequency (Lowe	er Band Edge) (MHz) (v) Cha	annel Frequency (Upper Band	Edge) (MHz) (vi) Channe	I Type (vii) Point of
			No records to di	splav			
4							,
<pre>Channel New record</pre>						Return to Beam Information	Schedule S Instructions
File1	Number				Call Sign		
			хC	hannels			
E	Beam ID 26		0	(1)	Channel ID]
Beam Frequency Band (N	1Hz) 🗇 -			(ii) Channel Bandw	ridth (MHz)]
				(iii) Center Frequ	1.0 S. U		J
					dge) (MHz)		
				(v) Channel Frequency (Upper	Band Edge) (MHz)		
				(vi) Cr	nannel Type None	~	•
Return to Beam Information	chedule S Instructions	Save Record					
Power Flux Density					Return to Beam Inform	mation Schedule S Inst	ructions Save Record
New record						Senedule 5 mist	Juve Record
Beam ID	26	0		(i) Beam Sub-Frequency (Lov		ĺ	
Beam Frequency Band (MHz) 💿	-			Band Edge) (Mi (ii) Beam Sub-Frequency (Up			
				Band Edge) (MI	Hz)		
Enter the applicable maximum powe	r flux density (PFD)	values for the transmit beam. Er	ter all associated data i	n the displaye <mark>d</mark> fields. Power <mark>l</mark>	Flux Density values must	be between -1000.0 and -5	50.0 dBW/m²/BW.
a.) Bandwidth: From the drop down I	ist, select a reference	e bandwidth of 4 kHz, 1 MHz or	200 MHz appropriate t	o the transmission band, as sp	pecified in Section 25.208	3.	
b.) For all satellite services and freque horizon in dBW/m²/BW.	ency bands covered	and not covered by the followin	g two cases, provide the	e maximum PFD values at ang	les of arrival of 0-2°, 2-5°	, 5-15°, 15-20°, 20-25° and	25-90° above the
c.) For NGSO/FSS sharing with MVD	DS in the 12200-127	700 MHz frequency band, provi	de the maximum PFD va	alues at angles of arrival of 0-:	2°, and 2-5° above the ho	rizon in dBW/m²/BW.	
d.) For DBS or 17/24 GHz BSS, and/c geographic regions in dBW/m²/BW, a			Hz frequency band, prov	vide the maximum PFD values	in each of the Southeast	ern, Northeastern, Wester	n and Other
Reference Bandwidth							
(iii) Reference Bandwidth (BW)	None					~	

Angles of Arrival PFD

(iv) 0-2° (dBW/m²/BW)	
(v) 2-5° (dBW/m²/BW)	
(vi) 5-15° (dBW/m²/BW)	
(vii) 15-20° (dBW/m²/BW)	
(viii) 20-25° (dBW/m²/BW)	
(ix) 25-90° (dBW/m²/BW)	

Geographic Region PFD

(x) Southeastern Region (dBW/m²/BW)					
(xi) Northeastern Region (dBW/m²/BW)					
(xii) Western Region (dBW/m²/BW)					
(xiii) Other Region (dBW/m²/BW)					
Energy Dispersal Bandwidth (xiv) Energy Dispersal Bandwidth					_
(kHz)					
Attachments New record		[Return to Beam Information	Schedule S Instructions	Save
Satellite		Call Sig	m		
		Attachments			
Beam ID	Use this field to link the attachment	(i) Document Type (ii) If Document Type is "Other		~	
	directly to a beam. (Optional for all other attachments.)	provide short description (0		
Direction of Transmission	None	(iii) File Nam	e Click to add		
Return to Beam Information Sch	hedule S Instructions Save Record				

S6. Space-to-Space (Receive) Beams

 D

Space to Space Receive New record				Schedule S Instructions	Save Rec
	Se	6. Space-to-Space (Receive) Beams			
\star a. Beam ID ⊘		n. Beam Peak Flux Density at Command Threshold (dBW/m²) ⑦			
★ b. Beam Frequency (Lower Band Edge) (MHz) ⑦		o. Peak Isotropic Antenna Gain (dBi)			
★ c. Beam Frequency (Upper Band Edge) (MHz) ⑦		p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi)			
\star d. Polarization $②$	Q	q. Antenna Pointing Error (°)			
e. Can the space station vary the channel bandwidth with on-board processing?	None 🗸	r. Antenna Rotational Error (°)			
f. Is this a command beam? (Check box if Yes)		s. Will a GIMS container file con- taining all antenna contour data be provided?	None	~	
g. Is the beam shapeable? (Check box if Yes)		t. Under what rules will the associ- ated antenna contours be	A		
h. Is the beam steerable? (Check box if Yes)		submitted? u. Provide a list of each orbital			
i. Is the beam fed into transpon- ders? (Check box if Yes)		plane in which this antenna beam is used. ⑦			
★ j. Maximum G/T (dB/K) ⑦		v. Are all space stations in the NGSO constellation identical? ⑦	None		
k. Minimum G/T (dB/K)		w. What information will be pro- vided with the predicted antenna gain contours? ⑦	None		
I. Maximum Saturation Flux Density (dBW/m²) ⑦		built control is.			
m. Minimum Saturation Flux Density (dBW/m²) ⑦					

Return to Main Menu Clone Bean	n Schedule S Instructions	Clone Beam with	Channels/PFDs	Create Channels in Bu	Ik Save Reco	d Delete Record		
x. Receive Channels z. Beam Attach	iments							
=							⊘ — New	
(i) Channel ID 🔺 (ii) Chan	nnel Bandwidth (MHz)	(iii) Center Frequenc	cy (MHz) ((iv) Channel Frequency (L	ower Band Edge)) (MHz) (v) Channel Freq	uency (Upper Band Edge) (MHz)	
<pre></pre>					[Return to Beam Information	Schedule S Instructions Schedule S	av
File Number					Call S	ign		
			X.	Channels				
Beam ID	27ss	0	n in the second s		(i) Channel			
Beam Frequency Band (MHz) 📀	-			(ii) Channe	el Bandwidth (MI	Hz)		
				(iii) Cente	er Frequency (MI	Hz)]	
				(iv) Channe	l Frequency (Lov Band Edge) (MI			
				(v) Channe	l Frequency (Up Band Edge) (MI			
					(vi) Channel Ty		~	
				(vii) Point	t of Communicat	ion		
Return to Beam Information Sci	hedule S Instructions	e Record						
Sector Attachments New record						Return to Beam Information	Schedule S Instructions	s
Satellite					Call	Sign		
			At	ttachments				
Beam ID	27ss	Q ((i) Document	Type None	~	
	Use this field to link the att directly to a beam. (Option other attachments.)	achment			ment Type is "Ot short descriptio	her",		
Direction of Transmission	None				(iii) File N	ame Click to add		
Return to Beam Information Sc	hedule S Instructions Sav	ve Record						

S7. Space-to-Space (Transmit) Beams

Space to Space Transmit New record					Schedule S Instructions	Save Record
S7. Space-to-Space (Transmit) Beams						
\star a. Beam ID 🕐			★ o. Peak Isotropic Antenna Gain (dBi) ⑦			
* b. Beam Frequency (Lower Band Edge) (MHz) ⑦			★ p. Isotropic Antenna Gain at 3			
* c. Beam Frequency (Upper			dB Beamwidth (dBi) ⑦ q. Antenna Pointing Error (°)			
Band Edge) (MHz) ⑦ * d. Polarization ⑦		Q	r. Antenna Rotational Error (°)			
e. Can the space station vary the	None	~	s. Will a GIMS container file con-	None	~	
channel bandwidth with on-board processing?)	taining all antenna contour data be provided?			
f. Is this a command beam? (Check box if Yes) ⑦			t. Under what rules will the associ- ated antenna contours be submitted?	A		
g. Is the beam shapeable? (Check box if Yes)			u. Provide a list of each orbital			
h. Is the beam steerable? (Check box if Yes)			plane in which this antenna beam is used. ⑦			
i. Is the beam fed into transpon- ders? (Check box if Yes)			v. Are all space stations in the NGSO constellation identical? ⑦	None		
★ j. Maximum Transmit EIRP Density (dBW/Ref BW) ⑦			w. What information will be pro- vided with the predicted antenna gain contours? ⑦	None		
★ k. Maximum Transmit EIRP (dBW) ⑦						
I. Minimum Saturation Flux Density (dBW/m²) ⑦						
m. Beam Peak Flux Density at Command Threshold (dBW/m²) ⑦						
		associated channel information under 5.114(c)(4)(vii) documentation under	er the "x. Transmit Channels" tab, the ma • the "z. Beam Attachments" tab.	aximum power-flux density ir	nformation under the "y. Max	. Power-
Return to Main Menu Clone Bea	am Schedule S Instructions	Clone Beam with Channels/PFDs	Create Channels in Bulk Save Re	ecord Delete Record		
x. Transmit Channels y. Max. Pow	ver-Flux Densities z. Beam Att	achments				
≡ © - New						
(i) Channel ID 🔺 (ii) Ch	annel Bandwidth (MHz)	iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Ec	dge) (MHz) (v) Chann	nel Frequency (Upper Band E	dge) (MHz)
No records to display						

Channel New record		Re	eturn to Beam Information	Schedule S Instructions	Save Record	
File Number		Call Sign				
		x. Channels				
Beam ID	28sst	(i) Channel ID				
Beam Frequency Band (MHz) 💿	ē.	(ii) Channel Bandwidth (MHz)				
		(iii) Center Frequency (MHz)				
		(iv) Channel Frequency (Lower Band Edge) (MHz)				
		(v) Channel Frequency (Upper Band Edge) (MHz)				
		(vi) Channel Type	None	~		
		(vii) Point of Communication	1			
Return to Beam Information Sch	hedule S Instructions Save Record					
A Power Flux Density New record		[]	Return to Beam Information	Schedule S Instructions	Save Reco	
		y. Max. Power-Flux Densities		A		
Beam ID	28sst	(i) Beam Sub-Frequency (Lower				
Beam Frequency Band (MHz) ⑦	-	Band Edge) (MHz)	· · · · · · · · · · · · · · · · · · ·			
		(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)				
Enter the applicable maximum power flux density (PFD) values for the transmit beam. Enter all associated data in the displayed fields. Power Flux Density values must be between -1000.0 and -50.0 dBW/m ² /BW.						
a.) Bandwidth: From the drop down I	ist, select a reference bandwidth of 4 kHz,	1 MHz or 200 MHz appropriate to the transmission band, as spec	ified in Section 25.208.			
b.) For all satellite services and freque horizon in dBW/m²/BW.	ency bands covered and not covered by th	ne following two cases, provide the maximum PFD values at angles	of arrival of 0-2°, 2-5°, 5-15°, 1	15-20°, 20-25° and 25-90° a	bove the	
c.) For NGSO/FSS sharing with MVD	DS in the 12200-12700 MHz frequency b	and, provide the maximum PFD values at angles of arrival of 0-2°, a	a <mark>nd</mark> 2-5° above the horizon in o	dBW/m²/BW.		
d.) For DBS or 17/24 GHz BSS, and/o geographic regions in dBW/m²/BW, a		-17800 MHz frequency band, provide the maximum PFD values in	each of the Southeastern, Nor	theastern, Western and Ot	her	
ð .						
Reference Bandwidth						
(iii) Reference Bandwidth (BW)	None			~		
Angles of Arrival PFD						
(iv) 0-2° (dBW/m²/BW)						
(v) 2-5° (dBW/m²/BW)						
(vi) 5-15° (dBW/m²/BW)						

(vii) 15-20° (dBW/m²/BW)

(viii) 20-25° (dBW/m²/BW)

(ix) 25-90° (dBW/m²/BW)			
Geographic Region PFD			
(x) Southeastern Region (dBW/m²/BW)			
(xi) Northeastern Region (dBW/m²/BW)			
(xii) Western Region (dBW/m²/BW)			
(xiii) Other Region (dBW/m²/BW)			
Energy Dispersal Bandwidth (xiv) Energy Dispersal Bandwidth			
(kHz)	·		
Return to Beam Information Se	chedule S Instructions Save Record		
< = Attachments New record			Return to Beam Information Schedule S Instructions
Satellite		Ca	all Sign
		Attachments	
Beam ID	28sst Q	(i) Documen	t Type None 🗸
	Use this field to link the attachment directly to a beam. (Optional for all other attachments.)	(ii) If Document Type is "C provide short descripti	
Direction of Transmission	None	(iii) File	Name Click to add
Return to Beam Information Sch	nedule S Instructions Save Record		

S8. Attachments

Attachments New record				Schedule S Instructions S
Satellite	DRAFT-SAT-LOA-20240724-00042	Call Sign		
		Attachments		
Beam ID	Use this field to link the attachment directly to a beam. (Optional for all other attachments.)	(i) Document Type (ii) If Document Type is "Other". provide short description ③	None	~
Direction of Transmission	None	(iii) File Name	Click to add	
Schedule S Instructions Save Re	ecord			