

Schedule S

Applicant | Satellite | Op. Band | GSO Orbit | NGSO Orbit | Service Area | Antenna Beam | Beam Diagram | Transponder | Modulation | Emission | Other

Applicant Information:

Add

Save

Delete

Name: Hawaii Pacific Teleport

Phone Number:

Street:

Fax Number:

Street:

E-mail:

City:

State:

Zipcode:

Attention:

Leeana A. Smith-Ryland

Country:

Note: Begin new data entry by first clicking "Add" button. Click "Save" button when finished.

Revise existing data by editing any data field. Click "Save" button when finished.

GENERAL NOTE: Several tables (Applicant, FCC Only, Satellite, GSO, NGSO Header, Electrical, and Physical) only allow one (1) data row each. All of these tables have "Add/Save/Delete" buttons that must be used to control data entry and storage. All other "Grid" tables allow multiple rows of data, each of which is "Saved" by moving the cursor into a different data row.

FCC Only:

Add

Save

Delete

Call Sign:

File Number
(without dashes):

(i.e. SATLOA2004013101234)

Date Filed:

Satellite Alias

ITU Network Name:

Complete this information only if requested
by FCC Staff with respect to a previously
filed application.

S1. General Information: Complete for all satellite applications.

Add

Save

Delete

a. Space Station or Satellite Network Name: JCSAT-2B

Estimated
DateMonths after
Authorization

b. Construction Commencement Date:

or

c. Construction Completion Date:

or

d1. Estimated Launch Date (Begin):

or

d2. Estimated Launch Date (End):

or

e. Estimated Date of Placement into Service:

or

f. Estimated Lifetime of Satellite(s): 15 Years

g. Total No. of Transponders: 44

h. Total Transponder Bandwidth (No.
Transponders x Bandwidth): 2853 MHzi. Will the space station(s) operate on
a Common Carrier Basis? (Yes/No):j. Number of transponders offered on
a Common Carrier basis:k. Total Common Carrier
Transponder Bandwidth:

MHz

l. Orbit Type: Check all boxes that apply. ☒ GSO☐ NGSO

NOTE: All dates should be given in whatever format is set for "Short Date" in your "Control Panel" under "Regional & Language Options" or "Regional Settings". This is "MM/DD/YYYY" for "English (United States)" setting.

S2. OPERATING FREQUENCY BANDS

For each frequency band in which the satellite will operate, provide:

S2f. Nature of Service(s):

To edit, click button in column "f" of table S2

	a.Lower Frequency Limit (numeric)	b.Unit (Hz)*	c.Upper Frequency Limit	d.Unit (Hz)*	e.T/R Mode **	f.Nature of Service		Lower Frequency Limit (MHz)	Upper Frequency Limit (MHz)	T/R Mode	f.Nature of Service	Description
▶	11460.75	M	12746.25	M	▼ T		▶	11460.75	12746.25	T	FSS	Fixed Satellite Service
	14002.75	M	14494.75	M	R			14002.75	14494.75	R	FSS	Fixed Satellite Service
	3625	M	4198	M	T			3625	4198	T	FSS	Fixed Satellite Service
	5850	M	6423	M	R			5850	6423	R	FSS	Fixed Satellite Service
*												

NOTES: * Use "K", "M", or "G" to denote "kHz", "MHz", or "GHz".

** Use "T" for "Transmit" and "R" for "Receive"

To delete an Operating Band: (1) click in any column in the row of table S2. (2) then click at the left sidebar of row to be deleted. This highlights the entire row. (3) Finally press "Delete" key on keyboard. GENERAL NOTE: This general process also applies to deleting rows in any of the GRID tables on the other tabs.

S3. Orbital Information for Geostationary Satellites

Add

Save

Delete

a. Nominal Orbital Longitude:

Longitudinal Tolerance or E/W Station-Keeping:

c. Toward West

d. Toward East

e. Inclination Excursion or
N/S Station-Keeping
Tolerance:

Range of orbital arc in which adequate
service can be provided (Optional):

f. Westernmost:

g. Easternmost:

b. Reason for orbital location selection:

SKY Perfect JSAT Corporation has authorization from Ministry of Internal Affairs and Communication of Japan to operate the satellite at the 154 degrees East longitude orbital location.

h. Reason for service arc selection (Optional):

S4. ORBITAL INFORMATION FOR NON-GEOSTATIONARY SATELLITES ONLY

Add

Save

Delete

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:

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

Schedule S

Applicant

Satellite

Op. Band

GSO Orbit

NGSO Orbit

Service Area

Antenna Beam

Beam Diagram

Transponder

Modulation

Emission

Other

S6. Service Area Characteristics

For each Service Area provide:

	a. Service Area ID	b. Type of Assoc. Station ('E'arth or 'S'pace)	c. Service Area Diagram File Name (GXT File)	d. Service Area Description. State Codes, ITU Codes, or Figure No.	Service Area Diagram File Name (Pdf File)
▶	KU JAPAN BEAM	E		Japan	JCSAT-2B Ku-band
	KU ASIA BEAM	E		East Asia, Southeast Asia, US Hawaii	JCSAT-2B Ku-band
	KU PACIFIC BEAM	E		Micronesia, Melanesia, Polynesia, US Hawaii	JCSAT-2B Ku-band
	C NORTH BEAM	E		Northeast Asia, US Alaska	JCSAT-2B C-band N
	C SOUTH BEAM	E		East Asia, Southeast Asia, Oceania, US Hawaii	JCSAT-2B C-band S
	C GLOBAL BEAM	E		Global field of view	JCSAT-2B C-band C
*					

NOTE: Double-Click anywhere on the service area row to view the service area GXT file.
Double-Click in PDF column to view the PDF file for the service area row.

For each Antenna Beam provide:

[illegible]

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)	e. NGSO Antenna Gain Contour Description (Figure/Table/ Exhibit)	f. GSO Antenna Gain Contour Data (GxT format)	g. Max PFD @ 5 deg* (dBW/m2 per ref. Bandwidth)	h. Max PFD @ 10 deg* (dBW/m2 per ref. Bandwidth)	i. Max PFD @ 15 deg* (dBW/m2 per ref. Bandwidth)	j. Max PFD @ 20 deg* (dBW/m2 per ref. Bandwidth)	k. Max PFD @ 25 deg* (dBW/m2 per ref. Bandwidth)	l. PFD Ref. BandWidth (4kHz or 1MHz)
▶	JP-TV ▼	T	C	154		2B_Ku_Japan						
	JP-RH	R	C	154		2B_Ku_Japan						
	AS-TV	T	C	154		2B_Ku_Asia_	-157.8	-158.2	-158.1	-155.5	-153.4	4kHz
	AS-RH	R	C	154		2B_Ku_Asia_						
	PC-TH	T	C	154		2B_Ku_Pacific	-157.5	-157.4	-157.3	-157.5	-157.9	4kHz
	PC-RV	R	C	154		2B_Ku_Pacific						
	N-TV	T	C	154		2B_C_North_	-158.5	-158.3	-158	-157.6	-157.2	4kHz
	N-RH	R	C	154		2B_C_North_						
	N-TH	T	C	154		2B_C_North_	-158.5	-158.4	-158.1	-157.7	-157.3	4kHz
	N-RV	R	C	154		2B_C_North_						
	S-TV	T	C	154		2B_C_South_	-164.1	-163.8	-163.5	-163.2	-162.8	4kHz
	S-RH	R	C	154		2B_C_South_						
	S-TH	T	C	154		2B_C_South_	-163.6	-163.3	-163	-162.7	-162.3	4kHz
	S-RV	R	C	154		2B_C_South_						
	GL-TH	T	C	154		2B_C_Global	-168.8	-168.6	-168.4	-168.2	-167.9	4kHz
	GL-RV	R	C	154		2B_C_Global						
*												

NOTE: Double-Click anywhere on the diagram row to view the diagram PDF.
Double-Click in GXT column to view the GXT file for the row.

*@ X deg., where X is the Angle of Arrival above horizontal

S10. Space Station Transponders

876. Space Station Transponders						
	a. Transponder ID	b. Transponder Gain (dB)	c. Receive Channel ID	d. Receive Beam ID	e. Transmit Channel ID	f. Transmit Beam ID
►	K1AA	126.9	K1R	AS-RH	K1T	AS-TV
	K3AA	126.9	K3R	AS-RH	K3T	AS-TV
	K5AA	126.9	K5R	AS-RH	K5T	AS-TV
	K6PP	127.8	K6R	PC-RV	K106T	PC-TH
	K7AJ	126.5	K7R	AS-RH	K7T	JP-TV
	K7JA	128.2	K7R	JP-RH	K7T	AS-TV
	K7AA	126.9	K7R	AS-RH	K7T	AS-TV
	K8PP	127.8	K8R	PC-RV	K108T	PC-TH
	K11AJ	126.5	K11R	AS-RH	K11T	JP-TV
	K11JA	128.2	K11R	JP-RH	K11T	AS-TV
	K11AA	126.9	K11R	AS-RH	K11T	AS-TV
	K12PP	127.8	K2R	PC-RV	K102T	PC-TH
	K14PP	127.8	K4R	PC-RV	K104T	PC-TH
	K15AJ	126.5	K15R	AS-RH	K15T	JP-TV
	K15JA	128.2	K15R	JP-RH	K15T	AS-TV
	K15AA	126.9	K15R	AS-RH	K15T	AS-TV
	C1NN	122.6	C1R	N-RH	C1T	N-TV
	C2NN	122.7	C2R	N-RV	C2T	N-TH
	C3NN	122.6	C3R	N-RH	C3T	N-TV
	C4NN	122.7	C4R	N-RV	C4T	N-TH
	C5NN	122.6	C5R	N-RH	C5T	N-TV
	C6NN	122.7	C6R	N-RV	C6T	N-TH
	C7NN	122.6	C7R	N-RH	C7T	N-TV
	C9NN	122.6	C9R	N-RH	C9T	N-TV
	C11SS	128.4	C11R	S-RH	C11T	S-TV
	C12SS	128.4	C12R	S-RV	C12T	S-TH
	C13SS	128.4	C13R	S-RH	C13T	S-TV
	C14SS	128.4	C14R	S-RV	C14T	S-TH
	C15SS	128.4	C15R	S-RH	K15T	S-TV
	C16SS	128.4	C16R	S-RV	C16T	S-TH
	C17SS	128.4	C17R	S-RH	C17T	S-TV
	C18SS	128.4	C18R	S-RV	C18T	S-TH
	C19SS	128.4	C19R	S-RH	C19T	S-TV
	C20SS	128.4	C20R	S-RV	C20T	S-TH
	C21SS	128.4	C21R	S-RH	C21T	S-TV
	C22SS	128.4	C22R	S-RV	C22T	S-TH
	C22SG	128.1	C22R	S-RV	C22T	GL-TH
	C22GS	129.8	C22R	GL-RV	C22T	S-TH
	C22GG	129.4	C22R	GL-RV	C22T	GL-TH
	C23SS	128.4	C23R	S-RH	C23T	S-TV
	C24SS	128.4	C24R	S-RV	C24T	S-TH
	C24SG	128.1	C24R	S-RV	C24T	GL-TH
	C24GS	129.8	C24R	GL-RV	C24T	S-TH
	C24GG	129.4	C24R	GL-RV	C24T	GL-TH
	C25SS	128.4	C25R	S-RH	C25T	S-TV
▼	C26SS	128.4	C26R	S-RV	C26T	S-TH

Schedule S

Applicant

Satellite

Op. Band

GSO Orbit

NGSO Orbit

Service Area

Antenna Beam

Beam Diagram

Transponder

Modulation

Emission

Other

S4 & S5. Orbital Information for NGSO Satellites

S9. Space Station Channels

a. Channel ID

b. Assigned Bandwidth (kHz)

c. T/R Mode

d. Center Frequency (MHz)

e. Polarization

f. TT&C or Comm

C4R

108000

R

5985

V

C

C5T

108000

T

3880

V

C

C5R

108000

R

6105

H

C

C6T

108000

T

3880

H

C

C6R

108000

R

6105

V

C

C7T

108000

T

4020

V

C

C7R

108000

R

6245

H

C

C9T

108000

T

4140

V

C

C9R

108000

R

6365

H

C

C11T

72000

T

3661

V

C

C11R

72000

R

5886

H

C

C12T

72000

T

3661

H

C

C12R

72000

R

5886

V

C

C13T

56000

T

3730

V

C

C13R

56000

R

5955

H

C

C14T

56000

T

3730

H

C

C14R

56000

R

5955

V

C

C15T

56000

T

3790

V

C

C15R

56000

R

6015

H

C

C16T

56000

T

3790

H

C

C16R

56000

R

6015

V

C

C17T

56000

T

3850

V

C

C17R

56000

R

6075

H

C

C18T

56000

T

3850

H

C

C18R

56000

R

6075

V

C

C19T

56000

T

3910

V

C

C19R

56000

R

6135

H

C

C20T

56000

T

3910

H

C

C20R

56000

R

6135

V

C

C21T

56000

T

3990

V

C

C21R

56000

R

6215

H

C

C22T

56000

T

3990

H

C

C22R

56000

R

6215

V

C

C23T

56000

T

4050

V

C

C23R

56000

R

6275

H

C

C24T

56000

T

4050

H

C

C24R

56000

R

6275

V

C

C25T

56000

T

4110

V

C

C25R

56000

R

6335

H

C

C26T

56000

T

4110

H

C

C26R

56000

R

6335

V

C

C27T

56000

T

4170

V

C

C27R

56000

R

6395

H

C

C28T

51000

T

4167.5

H

C

C28R

51000

R

6392.5

V

C

CBCN

T

4199.375

H

T

*

S10. Space Station Transponders

a. Transponder ID

b. Transponder Gain (dB)

c. Receive Channel ID

d. Receive Beam ID

e. Transmit Channel ID

f. Transmit Beam ID

K11AJ

126.5

K11R

AS-RH

K11T

JP-TV

K11JA

128.2

K11R

JP-RH

K11T

AS-TV

K11AA

126.9

K11R

AS-RH

K11T

AS-TV

K12PP

127.8

K2R

PC-RV

K102T

PC-TH

K14PP

127.8

K4R

PC-RV

K104T

PC-TH

K15AJ

126.5

K15R

AS-RH

K15T

JP-TV

K15JA

128.2

K15R

JP-RH

K15T

AS-TV

K15AA

126.9

K15R

AS-RH

K15T

AS-TV

C1NN

122.6

C1R

N-RH

C1T

N-TV

C2NN

122.7

C2R

N-RV

C2T

N-TH

C3NN

122.6

C3R

N-RH

C3T

N-TV

C4NN

122.7

C4R

N-RV

C4T

N-TH

C5NN

122.6

C5R

N-RH

C5T

N-TV

C6NN

122.7

C6R

N-RV

C6T

N-TH

C7NN

122.6

C7R

N-RH

C7T

N-TV

C9NN

122.6

C9R

N-RH

C9T

N-TV

C11SS

128.4

C11R

S-RH

C11T

S-TV

C12SS

128.4

C12R

S-RV

C12T

S-TH

C13SS

128.4

C13R

S-RH

C13T

S-TV

C14SS

128.4

C14R

S-RV

C14T

S-TH

C15SS

128.4

C15R

S-RH

K15T

S-TV

C16SS

128.4

C16R

S-RV

C16T

S-TH

C17SS

128.4

C17R

S-RH

C17T

S-TV

C18SS

128.4

C18R

S-RV

C18T

S-TH

C19SS

128.4

C19R

S-RH

C19T

S-TV

C20SS

128.4

C20R

S-RV

C20T

S-TH

C21SS

128.4

C21R

S-RH

C21T

S-TV

C22SS

128.4

C22R

S-RV

C22T

S-TH

C22SG

128.1

C22R

S-RV

C22T

GL-TH

C22GS

129.8

C22R

GL-RV

C22T

S-TH

C22GG

129.4

C22R

GL-RV

C22T

GL-TH

C23SS

128.4

C23R

S-RH

C23T

S-TV

C24SS

128.4

C24R

S-RV

C24T

S-TH

C24SG

128.1

C24R

S-RV

C24T

GL-TH

C24GS

129.8

C24R

GL-RV

C24T

S-TH

C24GG

129.4

C24R

GL-RV

C24T

GL-TH

C25SS

128.4

C25R

S-RH

C25T

S-TV

C26SS

128.4

C26R

S-RV

C26T

S-TH

C26SG

128.1

C26R

S-RV

C26T

GL-TH

C26GS

129.8

C26R

GL-RV

C26T

S-TH

C26GG

129.4

C26R

GL-RV

C26T

GL-TH

C27SS

128.4

C27R

S-RH

C27T

S-TV

C28SS

128.4

C28R

S-RV

C28T

S-TH

C28SG

128.1

C28R

S-RV

C28T

GL-TH

C28GS

129.8

C28R

GL-RV

C28T

S-TH

C28GG

129.4

C28R

GL-RV

C28T

GL-TH

*

Ready

Using E:\My Documents\S\kjei\Work Docs\HPT Schedule S\J-2B FCC

10/16/2015

Ready

Using E:\My Documents\Skjei Work Docs\HPT Schedule S\J-2B FCC 10/16/2015

S11. Digital Modulation Parameters

[illegible]

S12. Analog Modulation Parameters

[illegible]

S13. TYPICAL EMISSIONS

For each planned type of emission provide:

[illegible]

Schedule S

Applicant | Satellite | Op. Band | GSO Orbit | NGSO Orbit | Service Area | Antenna Beam | Beam Diagram | Transponder | Modulation | Emission | Other

S14. TT&C Station Locations

Is the space station(s) controlled and monitored remotely?

Save

 Complete Satellite Tab before responding to Yes/No Question S14.

	a1. Street1 Address	a2. Street2 Address	b. City	c. County	d1. State	d2. Country	e. Zip Code	f. Telephone No.	g. Call Sign of Control Station
▶	229-1 Miho-cho	Midori-ku	Yokohama	Japan		JPN	226-0015	+81-25-922-7111	
*									

S15. SPACECRAFT PHYSICAL CHARACTERISTICS

Add

Save

Delete

a. Mass of spacecraft w/o fuel:

2194.2

kg

b. Mass of fuel & disposables at launch:

2498

kg

c. Mass of spacecraft & fuel at launch:

4696.2

kg

d. Mass of fuel, in orbit, at BOL:

kg

e. Deployed area of Solar

44.8

sq. meters

Spacecraft Dimensions -
Deployed on-orbit
(meters)

f. Length:

25.5

m

g. Width:

9

m

h. Height:

7.5

m

Probability of Survival
to End of Life (0-1)

i. Payload:

0.9743

j. Bus:

0.8671

k. Total:

0.8216

S16. SPACECRAFT ELECTRICAL CHARACTERISTICS

Add

Save

Delete

Spacecraft Subsystem	Electrical Power (Watts) @ BOL @ Equinox	Electrical Power (Watts) @ BOL @ Solstice	Electrical Power (Watts) @ EOL @ Equinox	Electrical Power (Watts) @ EOL @ Solstice
Payload (Watts): a.	f.		k. 6301	p. 6301
Bus (Watts): b.	g.		l. 1958	q. 1287
Total (Watts): c.	h.		m. 8259	r. 7588
Solar Array (Watts): d.	i. 10997	9776	n. 9878	s. 8954
Depth of Battery Discharge (%): e.	j.		o. 69.5	t.

S17. CERTIFICATIONS

Save

 Complete Satellite Tab before responding to S17 Certifications.

a. Are the power flux density limits of & 25.208 met?

Yes

b. Are the appropriate service area coverage requirements of & 25.143(b)(ii) and (iii), or & 25.145(c)(1) and (2) met?

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?

Yes