Form 312 Schedule S (GSO example) screenshots

S1. Satellite Information

Not Yet Approved by OMB
Estimated Time Per Response: 0.5-80 hrs
April 2024
OMB Control Number 3060-0678

Satellite
DRAFT-SAT-MOD-20240320-00076

Schedule S Review | Form 312 | Schedule S Instructions | Save Recor

File Number

Call Sign

S1. Satellite Information

a. Space Station or Satellite Network Name: disk

b. Orbit Type: Geostationary (GSO)

c. Estimated Operational Lifetime of Space Station(s) From Date of Launch (yrs): 30

d. Will the space station(s) operate on a Common Carrier basis?: No

e. Application Description: Just another test

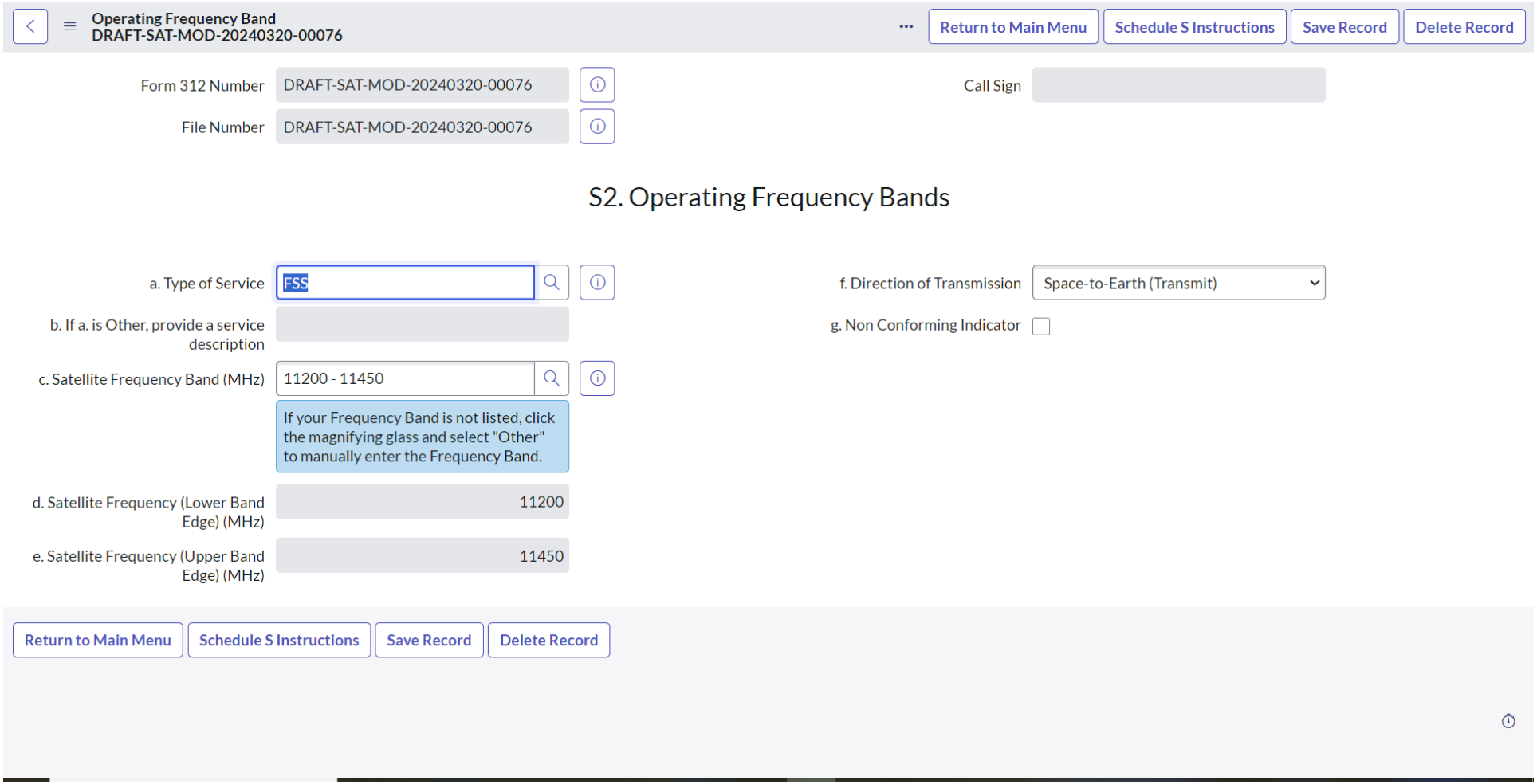
Schedule S Review | Form 312 | Schedule S Instructions | Save Record

S2. Operating Frequency Bands (2) | S3. GSO Orbital Information (1) | S4. Earth-to-Space (Receive) Beams (1) | S5. Space-to-Earth (Transmit) Beams (1) | S6. Space-to-Space (Receive) Beams | S7. Space-to-Space (Transmit) Beams | S8. Attachments (5)

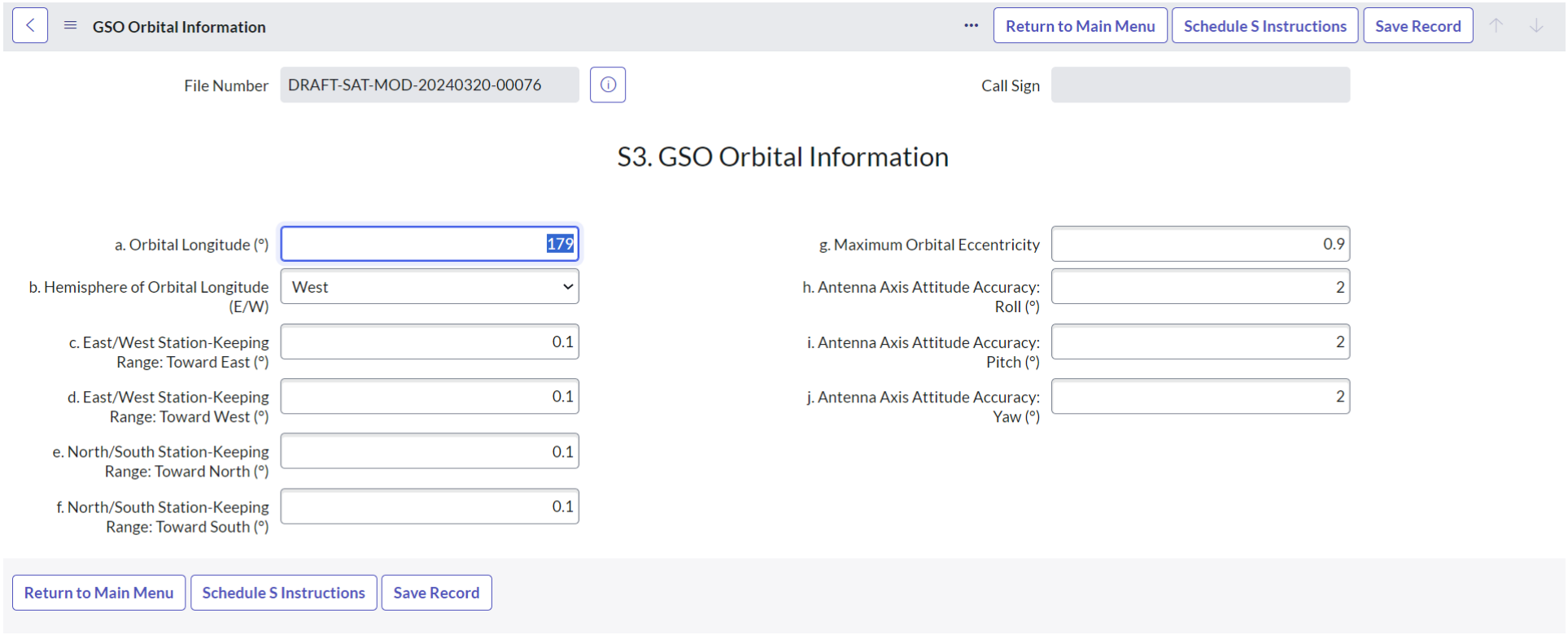
Actions on selected rows... | New

a. Type of Service	b. If a. is Other, provide a service description	c. Satellite Frequency Band (MHz)	d. Satellite Frequency (Lower Band Edge) (MHz)	e. Satellite Frequency (Upp
FSS		11700 - 12500	11700	
FSS		29500 - 30000	29500	

S2. Operating Frequency Bands



S3. GSO Orbital Information



Earth to Space Receive
New record

Schedule S Instruction

File Number: DRAFT-SAT-MOD-20240320-00076

Call Sign:

S4. Earth-to-Space (Receive) Beams

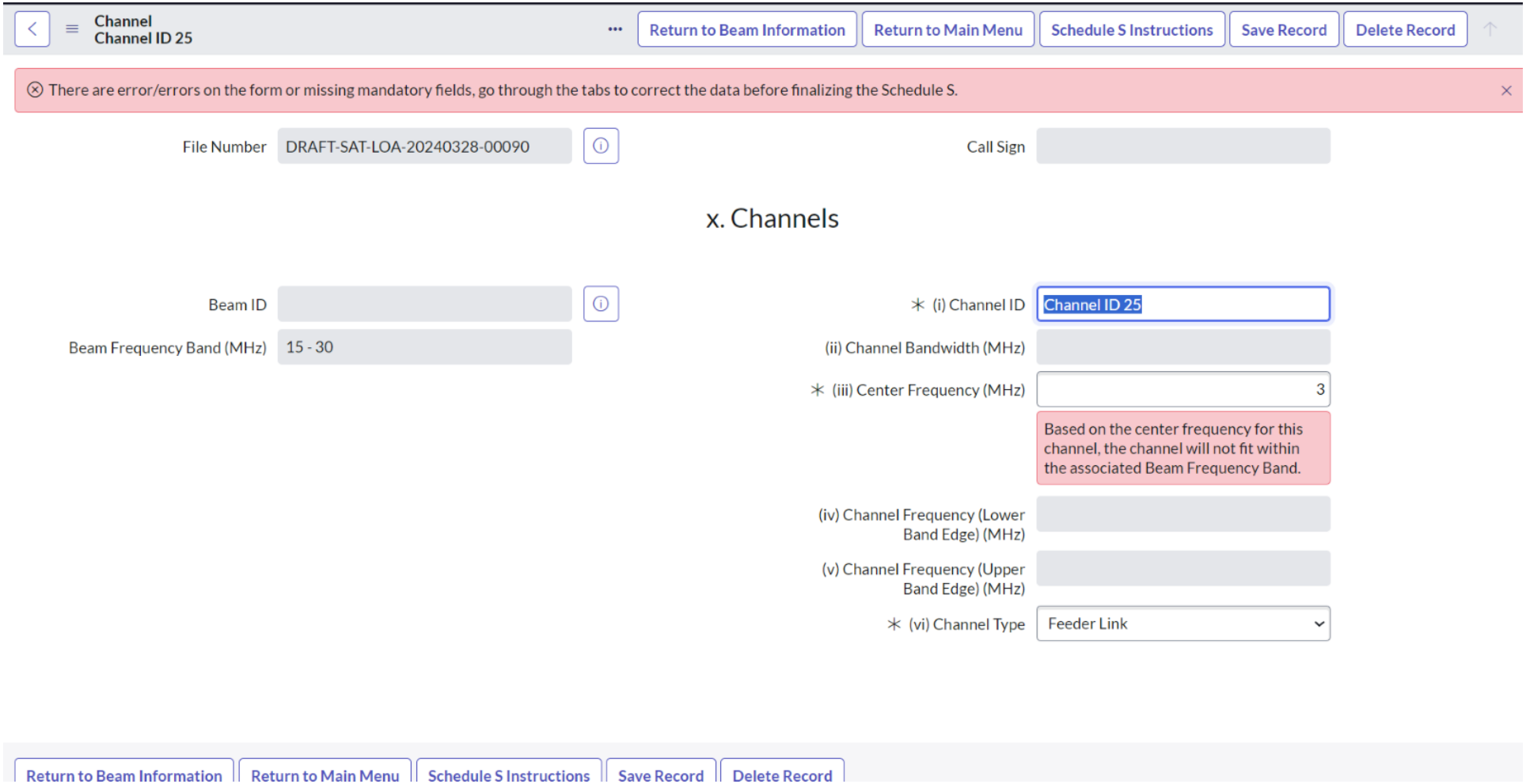
✳ a. Beam ID	R25
✳ b. Beam Frequency (Lower Band Edge) (MHz)	29500
✳ c. Beam Frequency (Upper Band Edge) (MHz)	30000
✳ d. Polarization	LHCP
✳ e. Can the space station vary the channel bandwidth with on-board processing?	No
f. Is this a command beam? (Check box if Yes)	☐
g. Is the beam shapeable? (Check box if Yes)	☐
h. Is the beam steerable? (Check box if Yes)	☐
i. Is the beam fed into transponders? (Check box if Yes)	☐
✳ j. Maximum G/T (dB/K)	52
n. Beam Peak Flux Density at Command Threshold (dBW/m²)	
o. Peak Isotropic Antenna Gain (dBi)	49
p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi)	84
q. Antenna Pointing Error (°)	0.5
r. Antenna Rotational Error (°)	0.5
s. Will a GIMS container file containing all antenna contour data be provided?	No
t. Under what rules will the associated antenna contours be submitted?	
u. Provide a list of each orbital plane in which this antenna beam is used.	
v. Are all space stations in the NGSO constellation identical?	-- None --

k. Minimum G/T (dB/K)	46
l. Maximum Saturation Flux Density (dBW/m^2)	
m. Minimum Saturation Flux Density (dBW/m^2)	

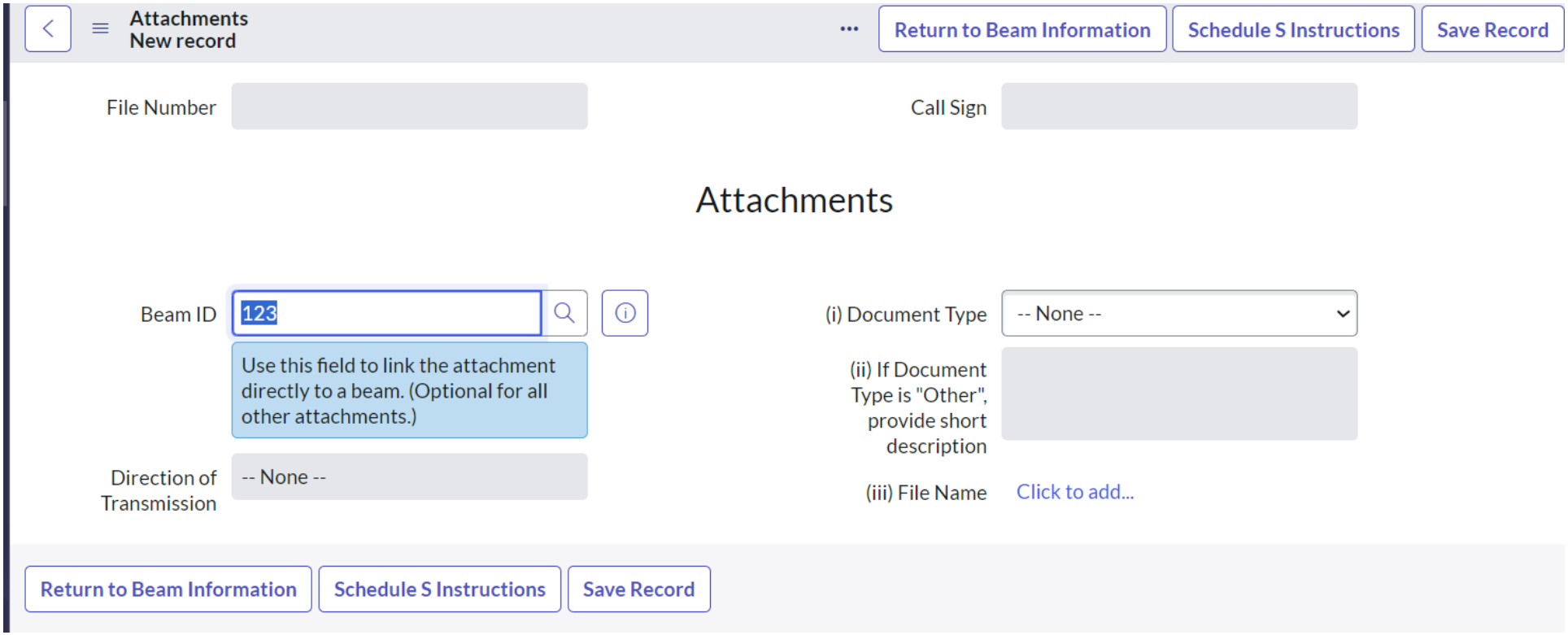
w. What information will be provided with the predicted antenna gain contours? -- None --

Please click the "Save Record" button to generate a table to enter the associated channel information 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.

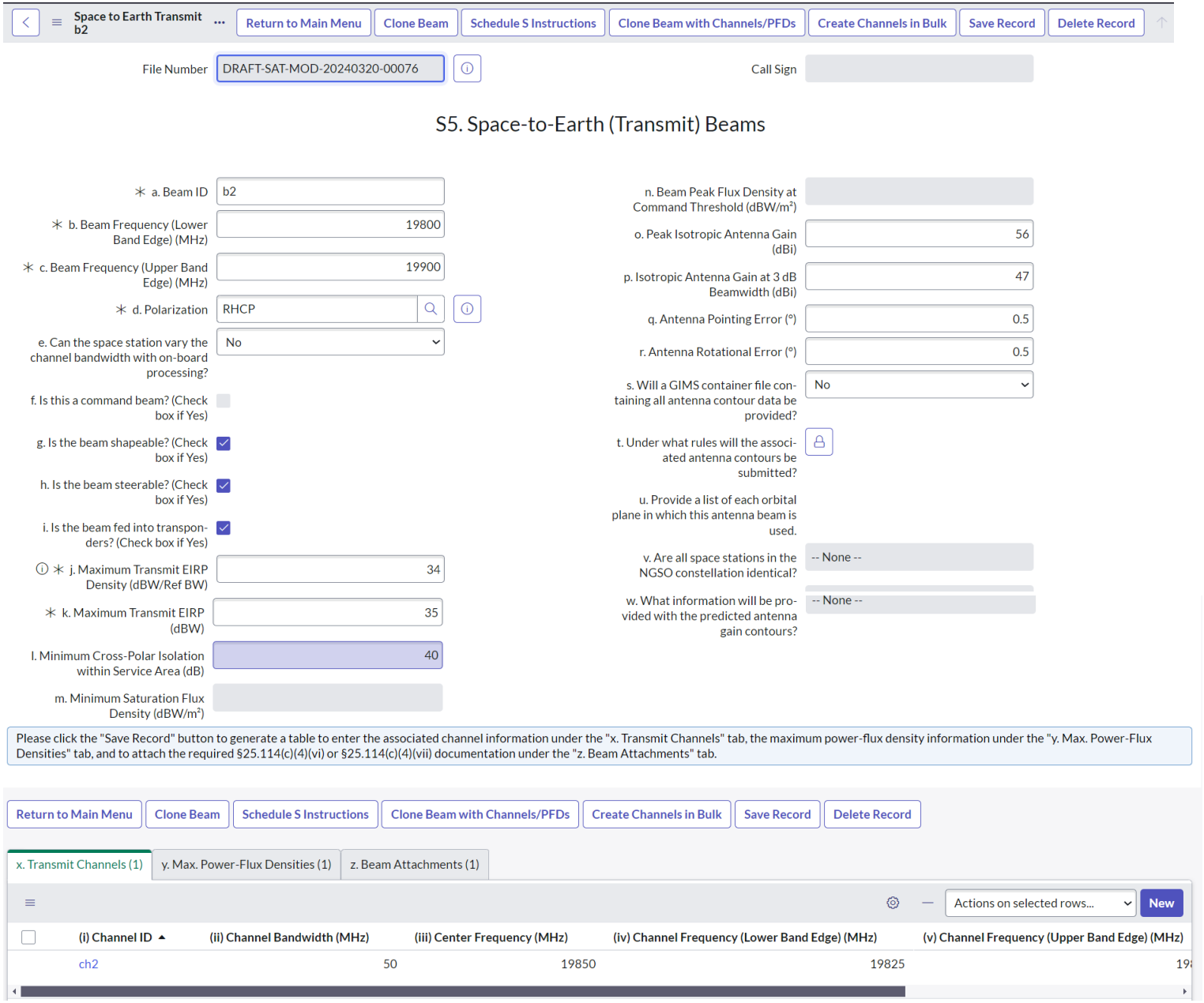
S4x. Receive Channels



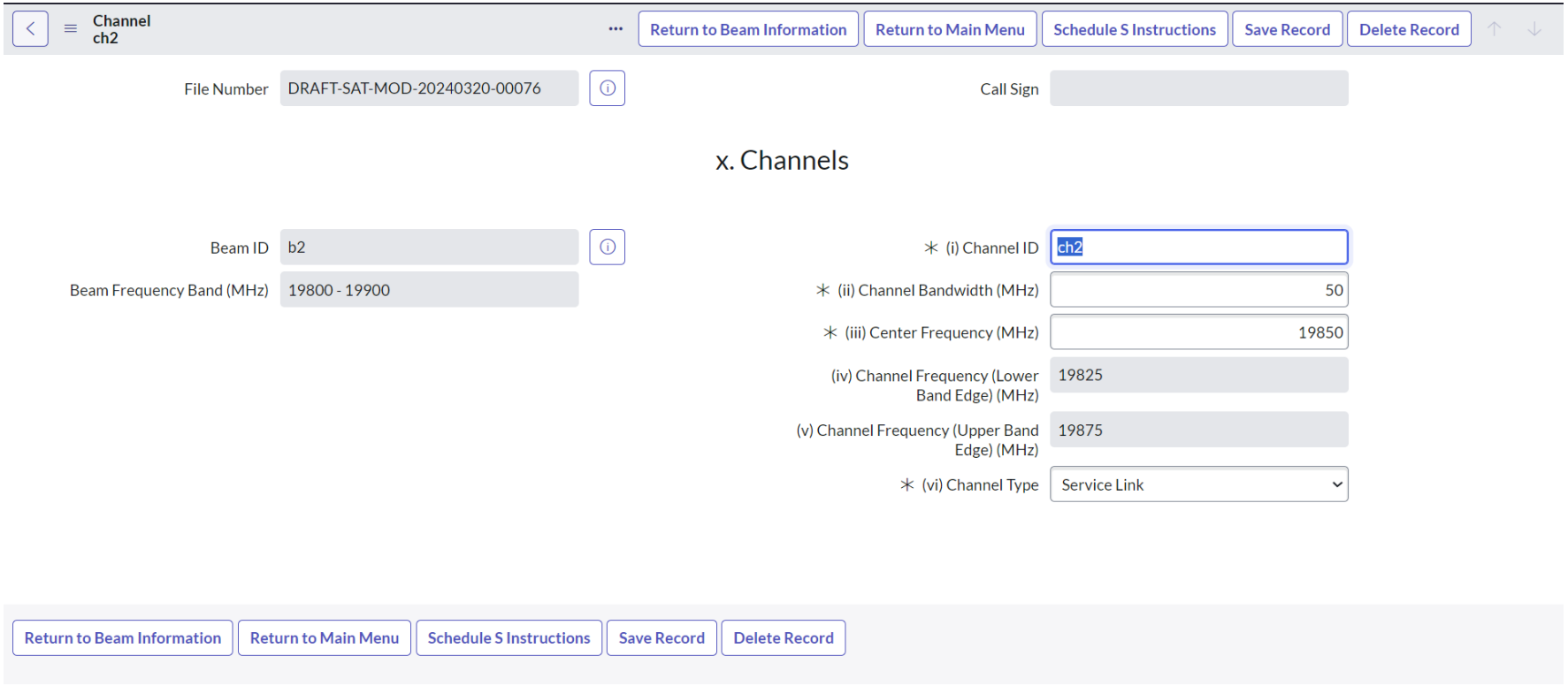
S4z. Beam Attachments



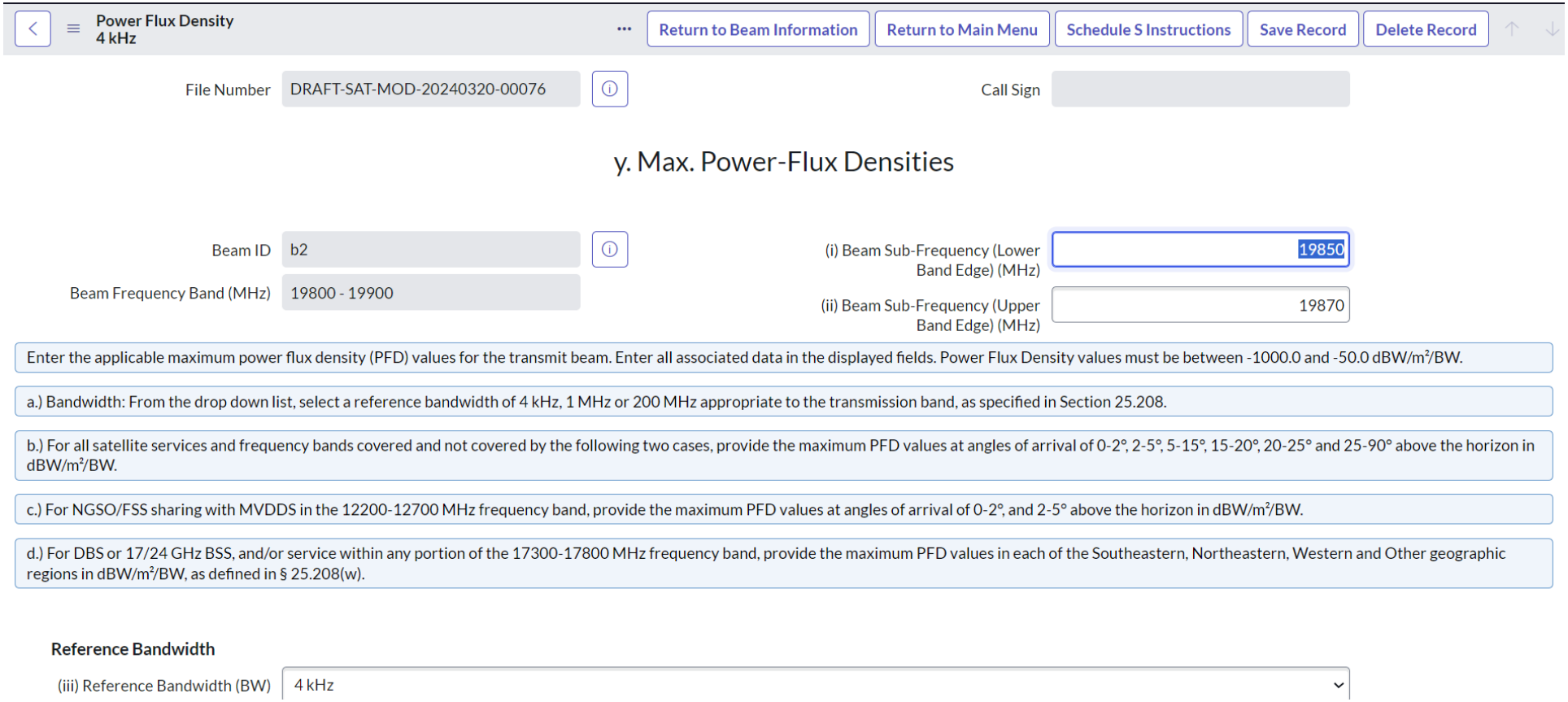
S5. Space-to-Earth (Transmit) Beams



S5x. Transmit Channels



S5y. Max. Power-Flux Densities



Angles of Arrival PFD

(iv) 0-2° (dBW/m²/BW)	-100
(v) 2-5° (dBW/m²/BW)	-105
(vi) 5-15° (dBW/m²/BW)	-106
(vii) 15-20° (dBW/m²/BW)	-107
(viii) 20-25° (dBW/m²/BW)	-108
(ix) 25-90° (dBW/m²/BW)	-109

Geographic Region PFD

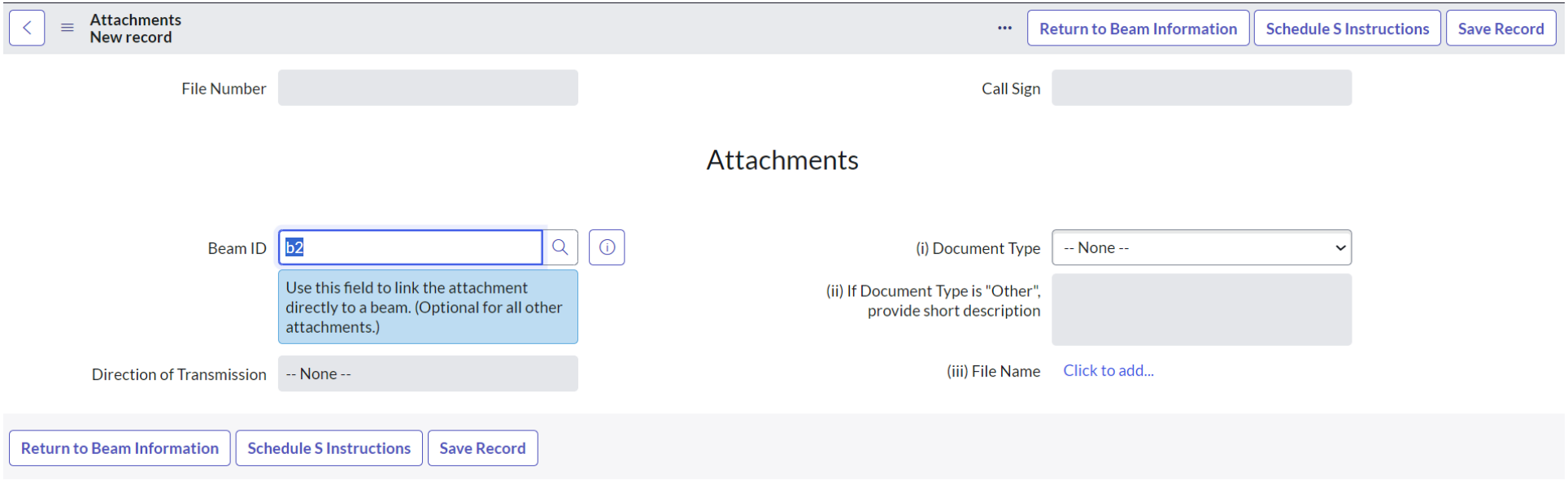
(x) Southeastern Region (dBW/m²/BW)	
(xi) Northeastern Region (dBW/m²/BW)	
(xii) Western Region (dBW/m²/BW)	
(xiii) Other Region (dBW/m²/BW)	

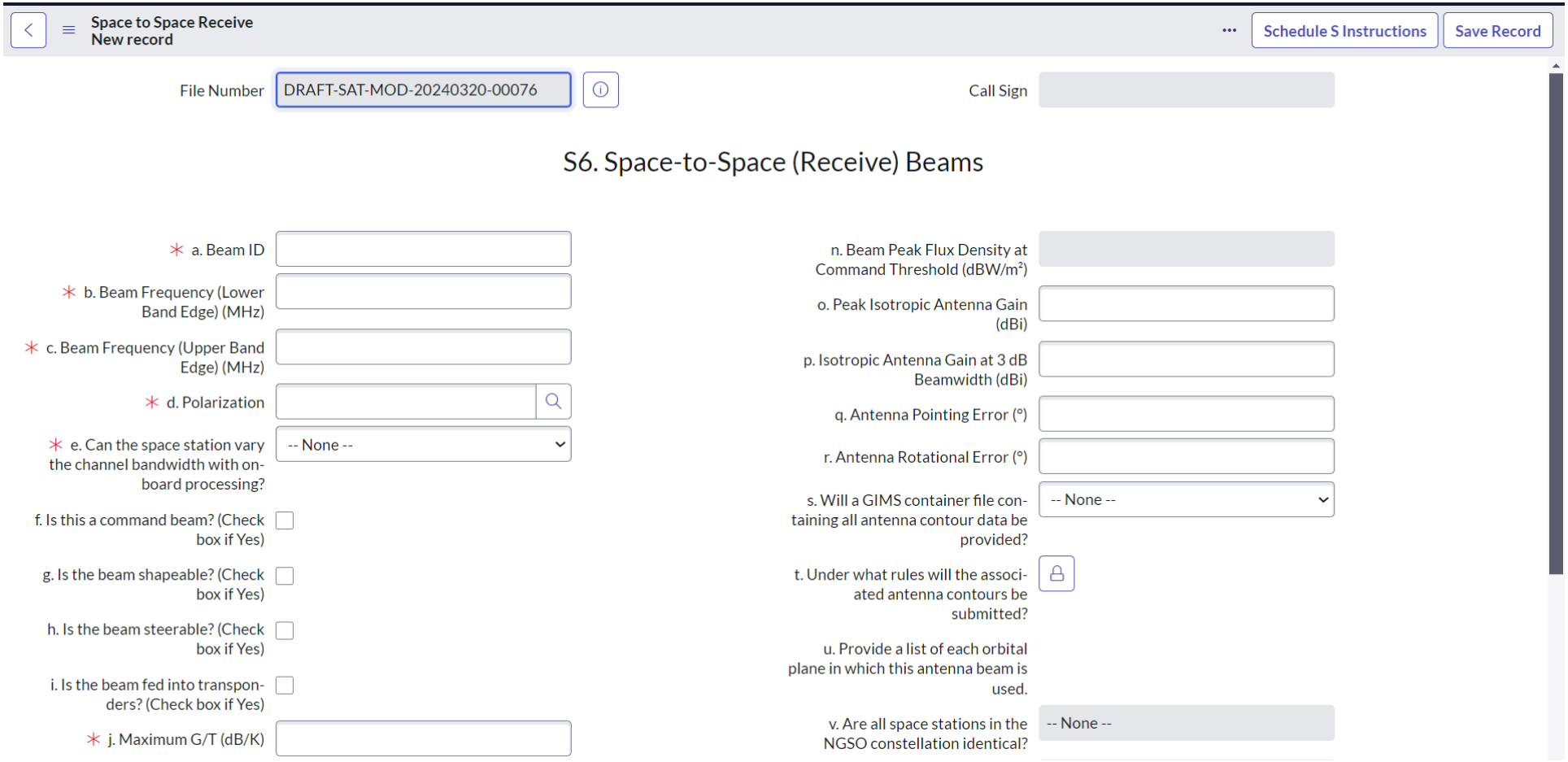
Energy Dispersal Bandwidth

(xiv) Energy Dispersal Bandwidth (kHz)	40

Return to Beam Information | Return to Main Menu | Schedule S Instructions | Save Record | Delete Record

S5z. Beam Attachments




Space to Space Receive
New record
Schedule S Instructions
Save Record
File Number
DRAFT-SAT-MOD-20240320-00076
Call Sign
S6. Space-to-Space (Receive) Beams
a. Beam ID
b. Beam Frequency (Lower Band Edge) (MHz)
c. Beam Frequency (Upper Band Edge) (MHz)
d. Polarization
e. Can the space station vary the channel bandwidth with on-board processing?
-- None --
f. Is this a command beam? (Check box if Yes)
g. Is the beam shapeable? (Check box if Yes)
h. Is the beam steerable? (Check box if Yes)
i. Is the beam fed into transponders? (Check box if Yes)
j. Maximum G/T (dB/K)
n. Beam Peak Flux Density at Command Threshold (dBW/m²)
o. Peak Isotropic Antenna Gain (dBi)
p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi)
q. Antenna Pointing Error (°)
r. Antenna Rotational Error (°)
s. Will a GIMS container file containing all antenna contour data be provided?
-- None --
t. Under what rules will the associated antenna contours be submitted?
u. Provide a list of each orbital plane in which this antenna beam is used.
v. Are all space stations in the NGSO constellation identical?
-- None --

k. Minimum G/T (dB/K)

l. Maximum Saturation Flux Density (dBW/m²)

m. Minimum Saturation Flux Density (dBW/m²)

w. What information will be provided with the predicted antenna gain contours? -- None --

Please click the "Save Record" button to generate a table to enter the associated channel information 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.

Schedule S Instructions | Save Record

S6x. Receive Channel

Channel
New record

... | Return to Beam Information | Schedule S Instructions | Save Record

File Number

Call Sign

x. Channels

Beam ID: Beam ID 28

Beam Frequency Band (MHz): -

(i) Channel ID

(ii) Channel Bandwidth (MHz)

(iii) Center Frequency (MHz)

(iv) Channel Frequency (Lower Band Edge) (MHz)

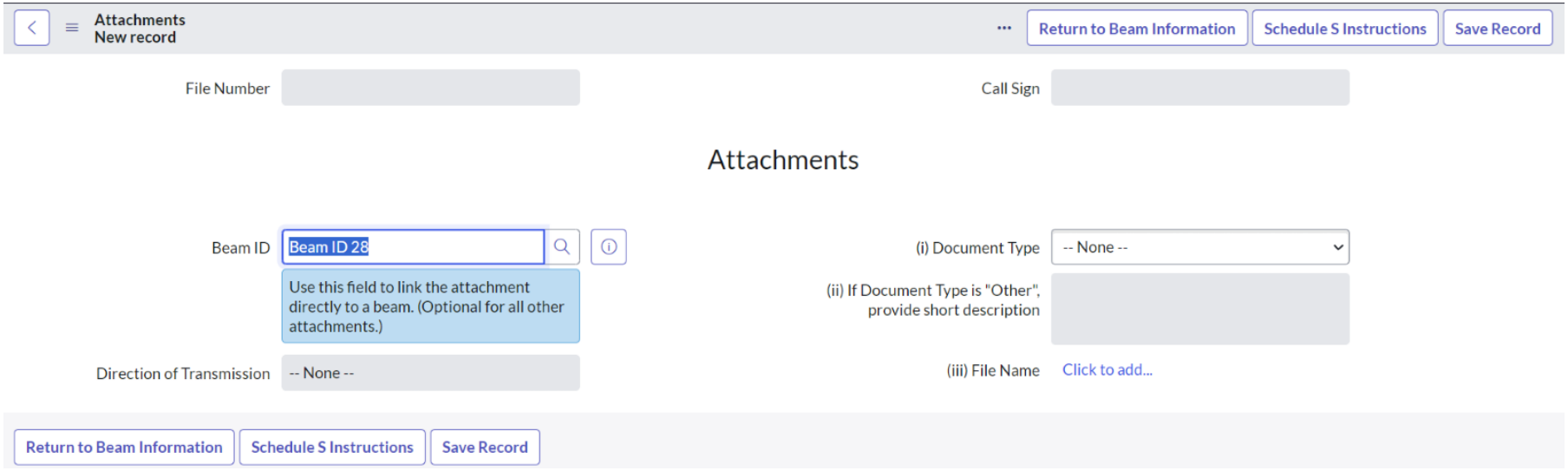
(v) Channel Frequency (Upper Band Edge) (MHz)

(vi) Channel Type: -- None --

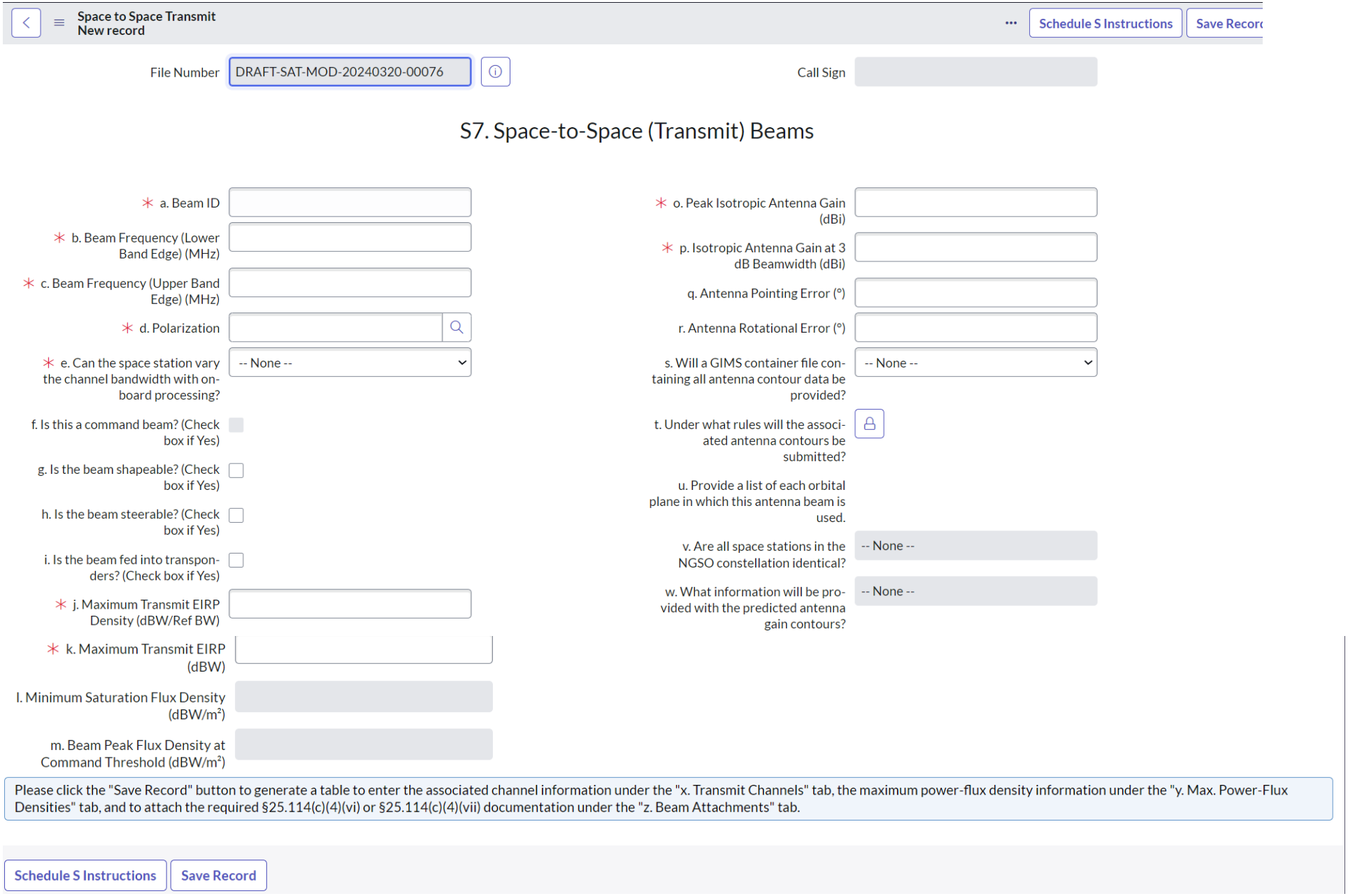
(vii) Point of Communication

Return to Beam Information | Schedule S Instructions | Save Record

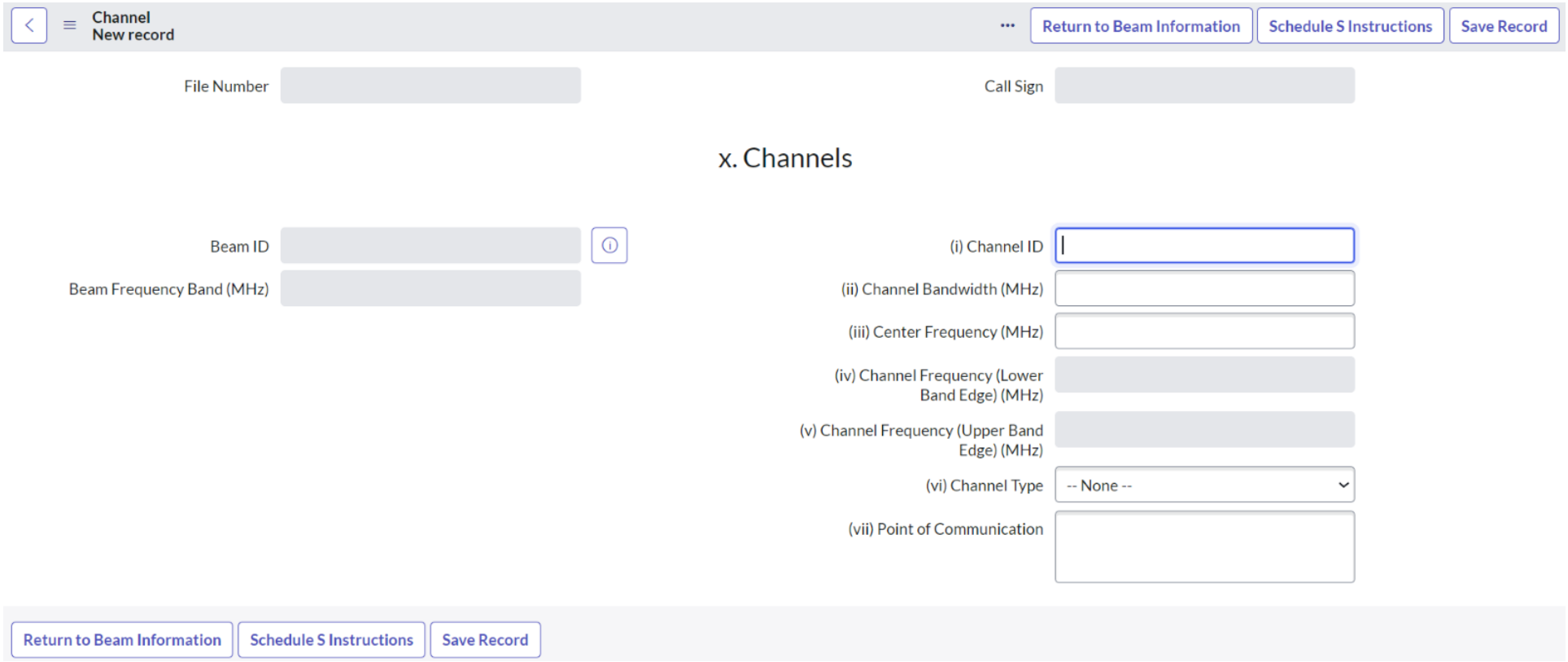
S6z. Attachments



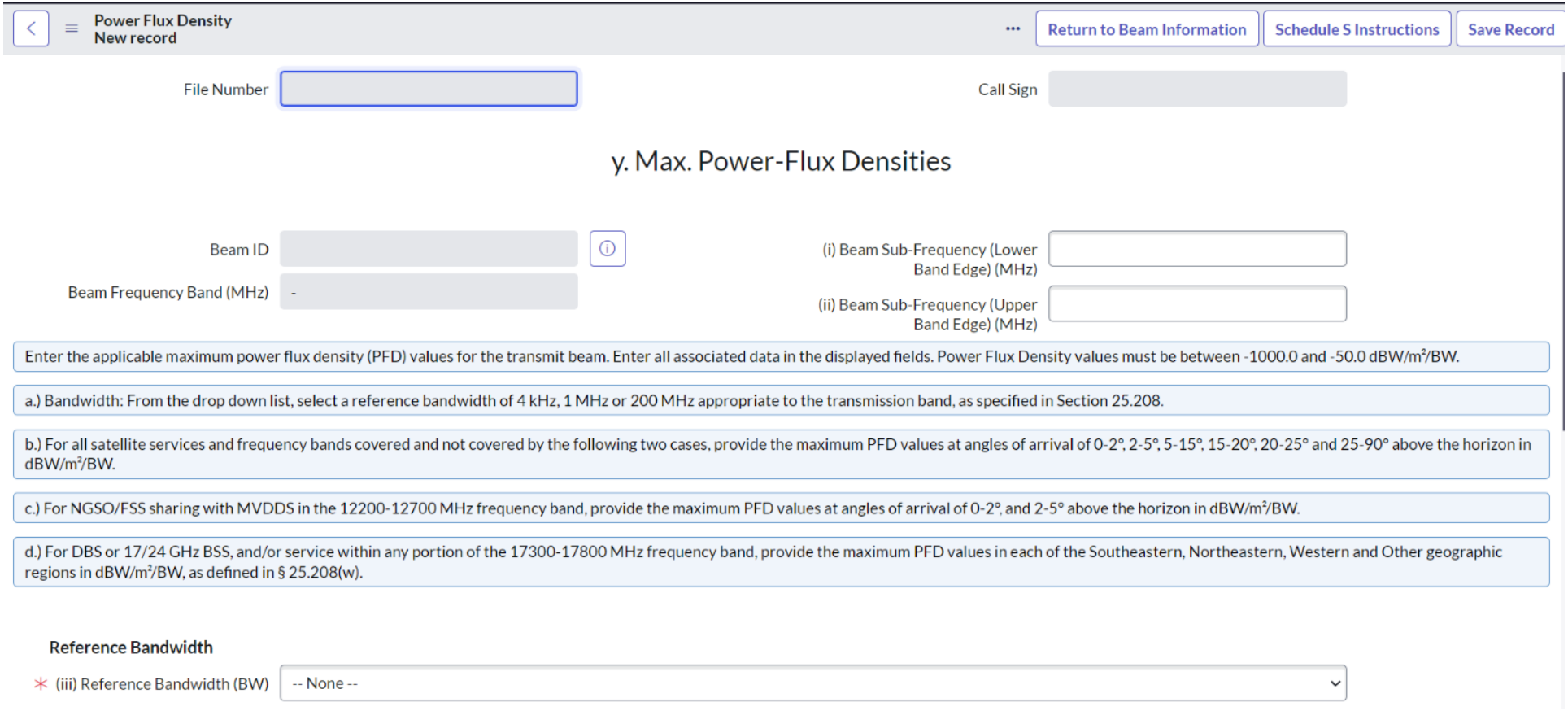
S7. Space-to-Space (Transmit) Beam



S7x. Transmit Channels



S7y. Max. Power-Flux Densities



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

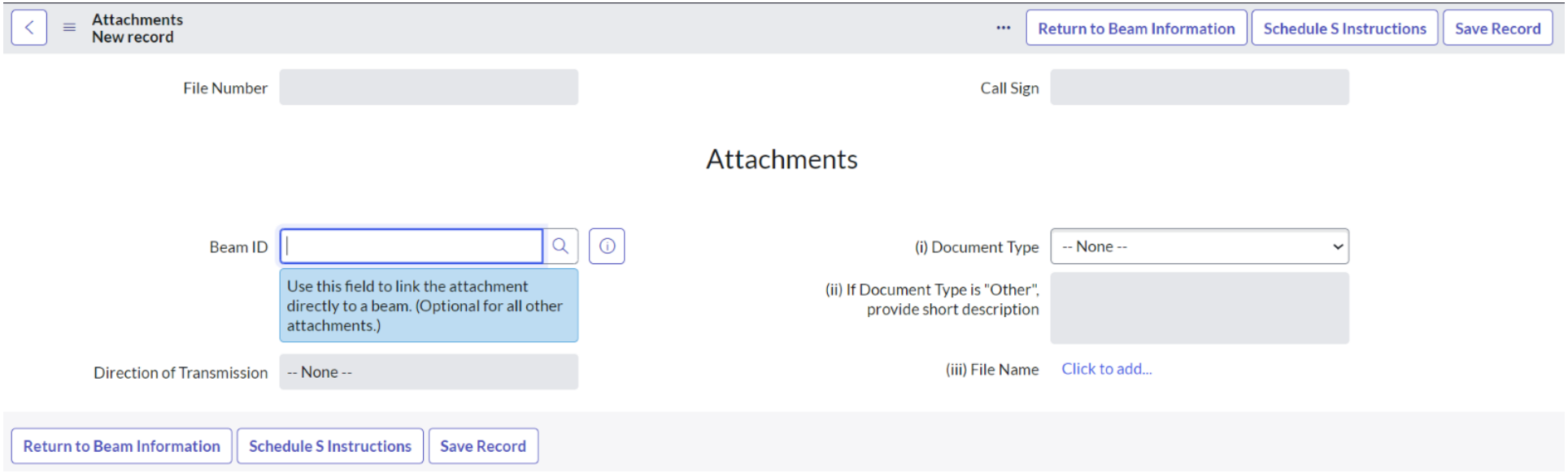
(x) Southeastern Region (dBW/m²/BW)	
(xi) Northeastern Region (dBW/m²/BW)	
(xii) Western Region (dBW/m²/BW)	
(xiii) Other Region (dBW/m²/BW)	

Energy Dispersal Bandwidth

(xiv) Energy Dispersal Bandwidth (kHz)	

Return to Beam Information | Schedule S Instructions | Save Record

S7z. Beam Attachments



S8. Attachments