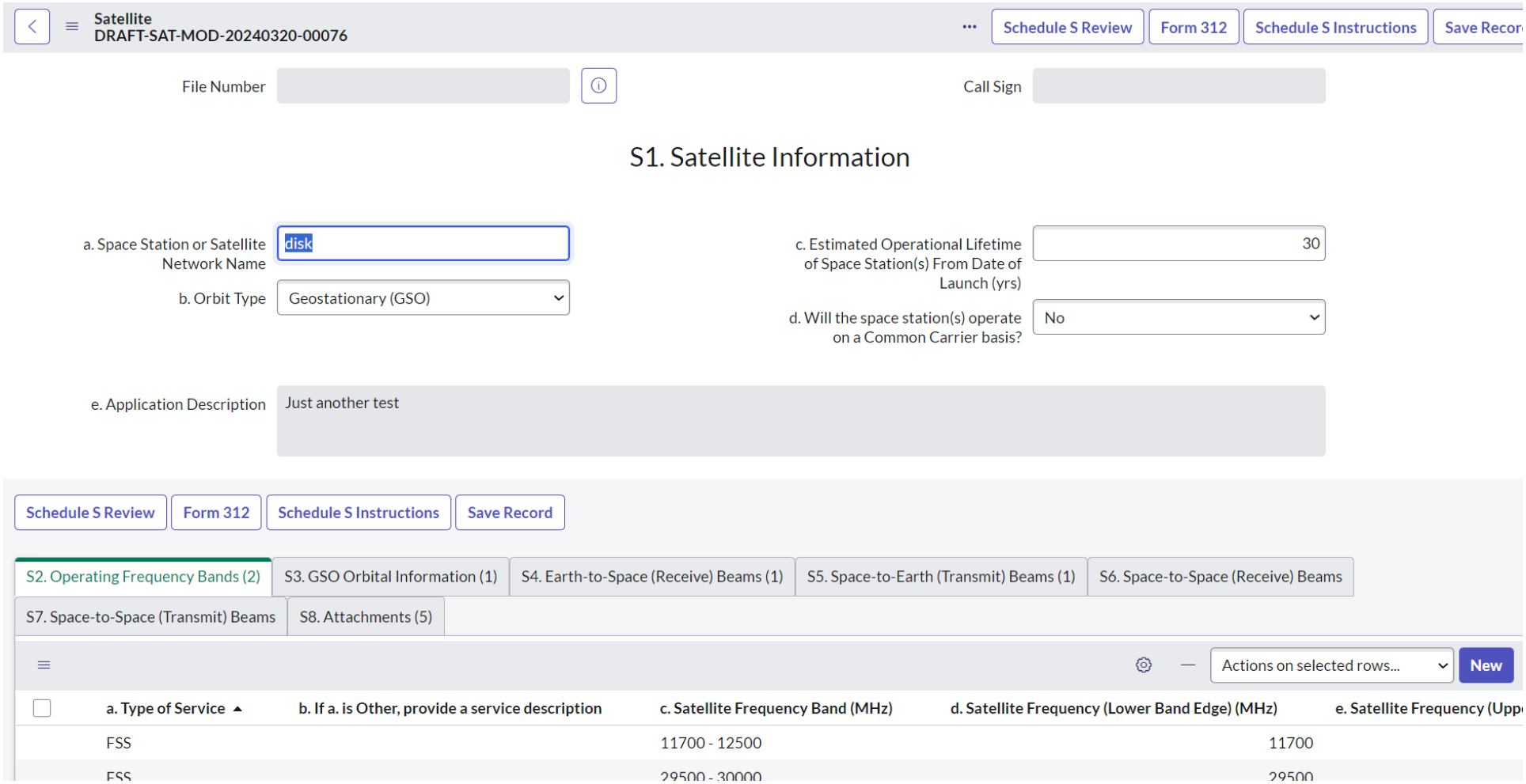
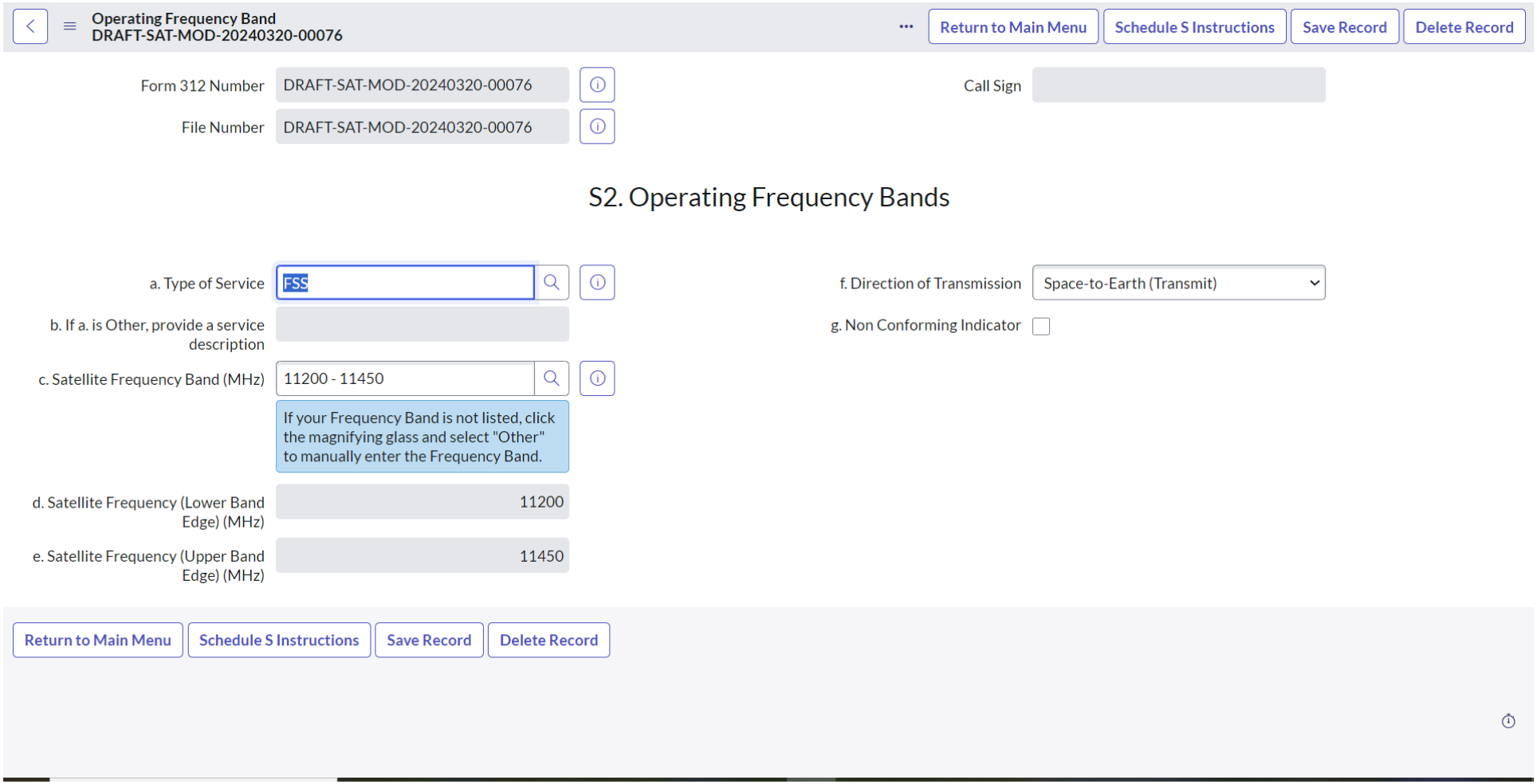
Form 312 Schedule S (NGSO example) screenshots

S1. Satellite Information

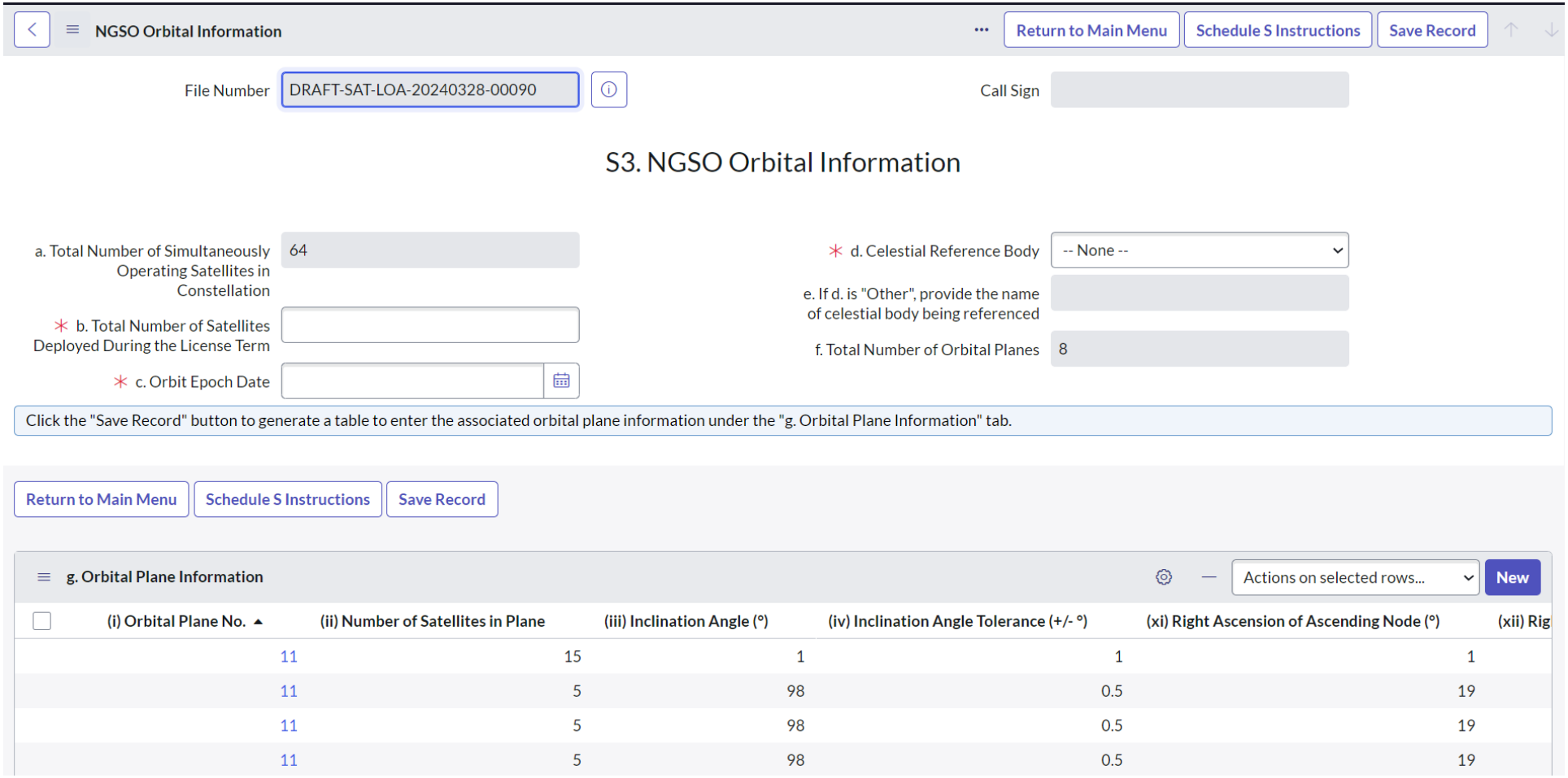
Not Yet Approved by OMB
Estimated Time Per Response: 0.5-80 hrs
April 2024
OMB Control Number 3060-0678



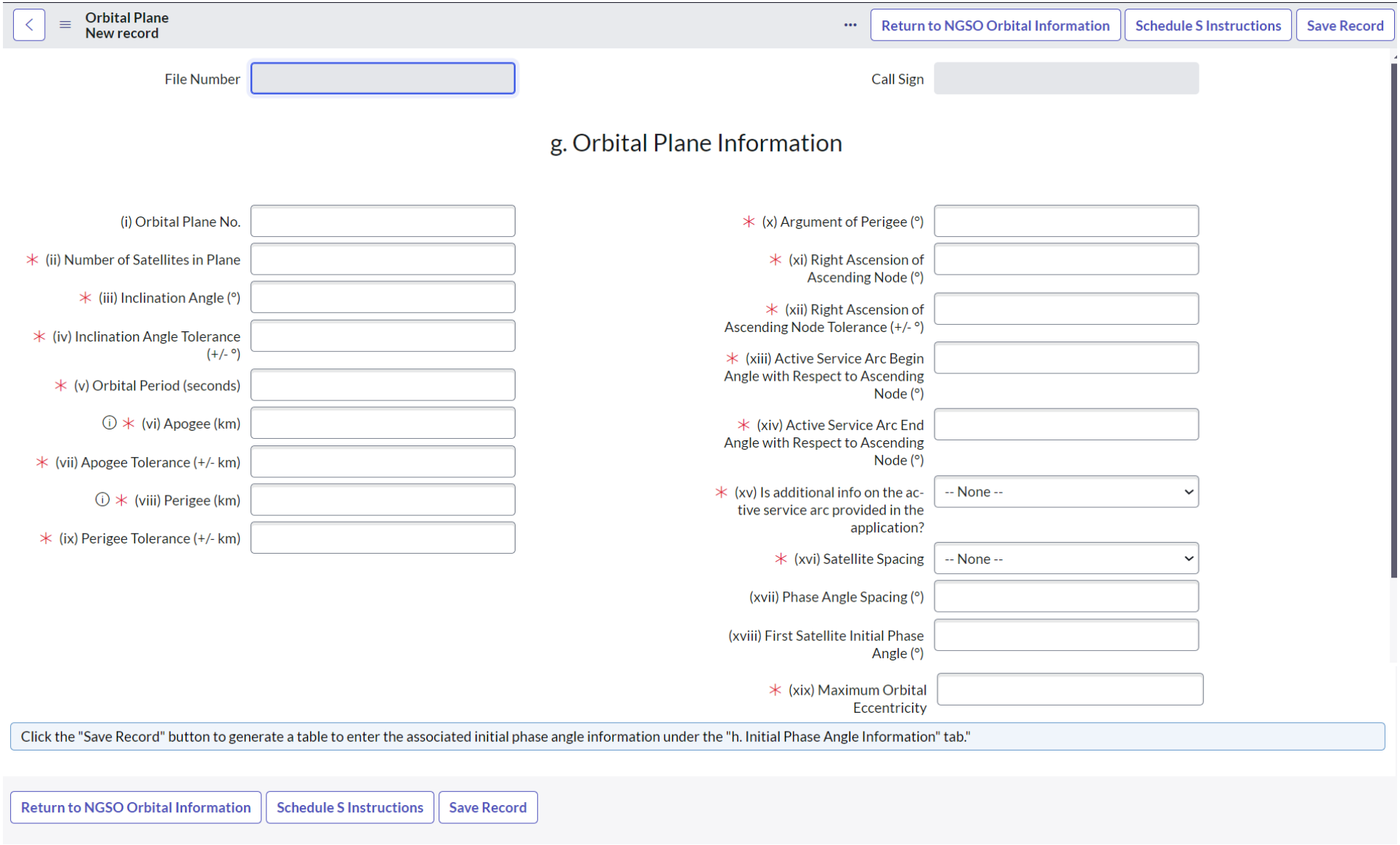
S2. Operating Frequency Bands

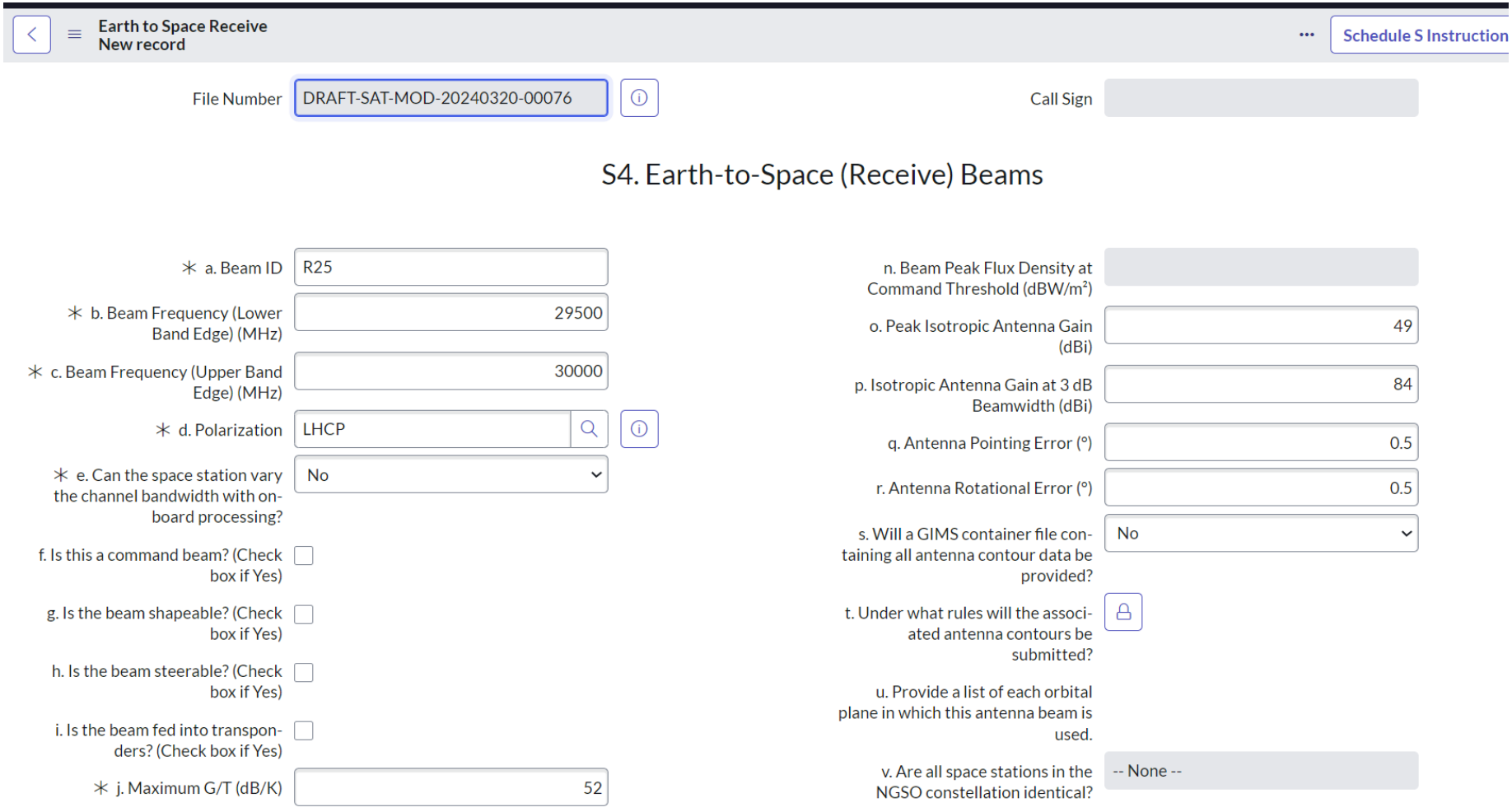


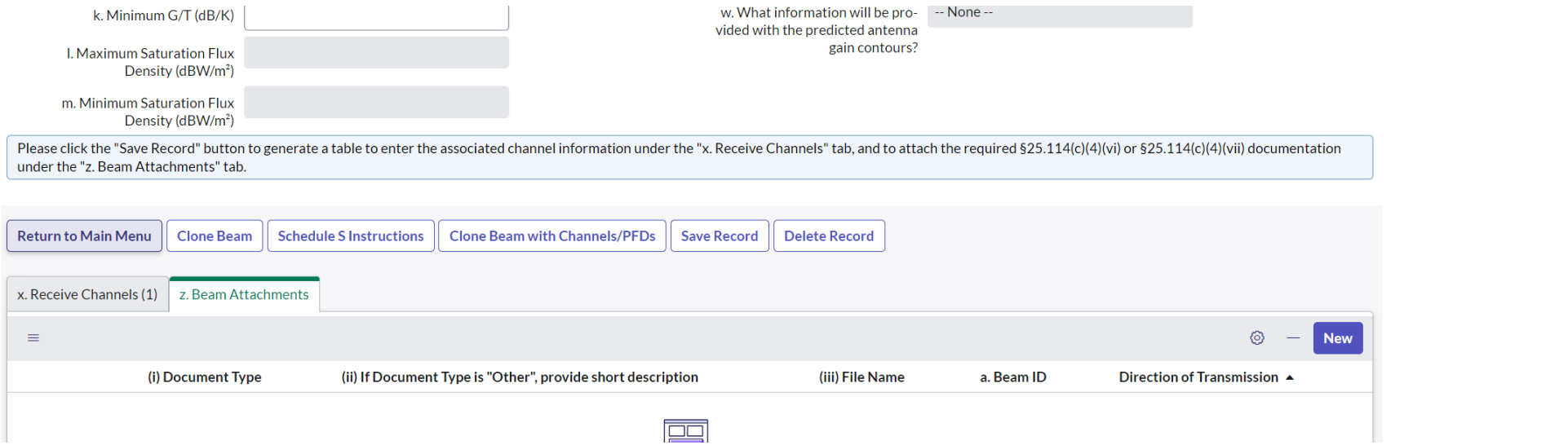
S3. NGSO Orbital Information



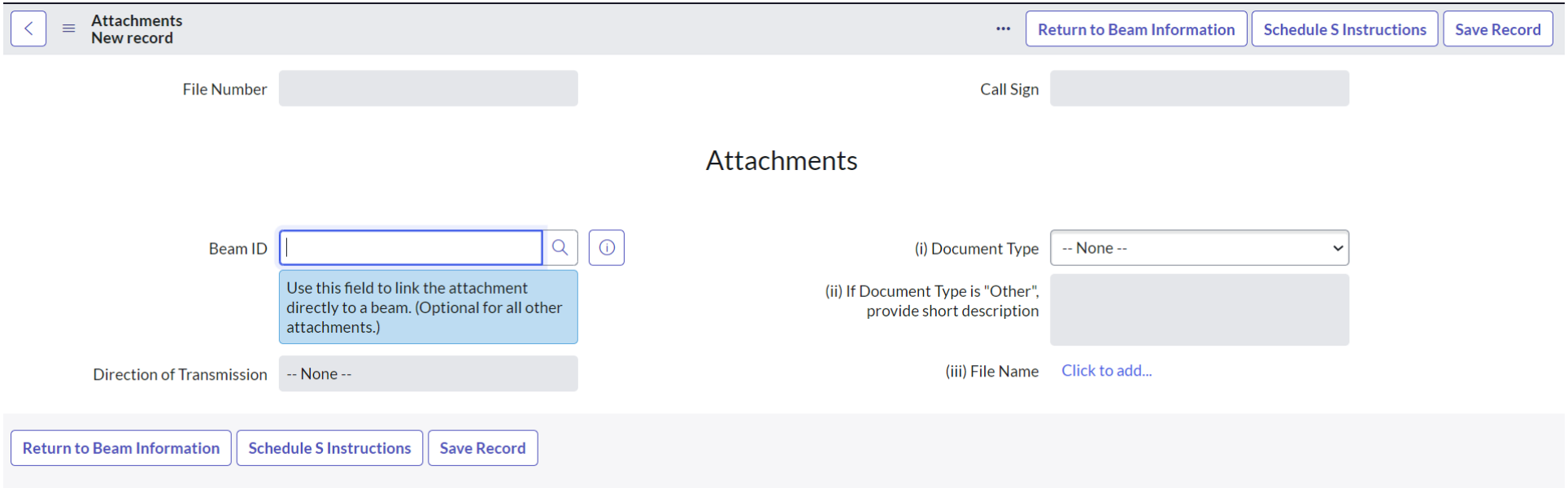
S3g. Orbital Plane Information



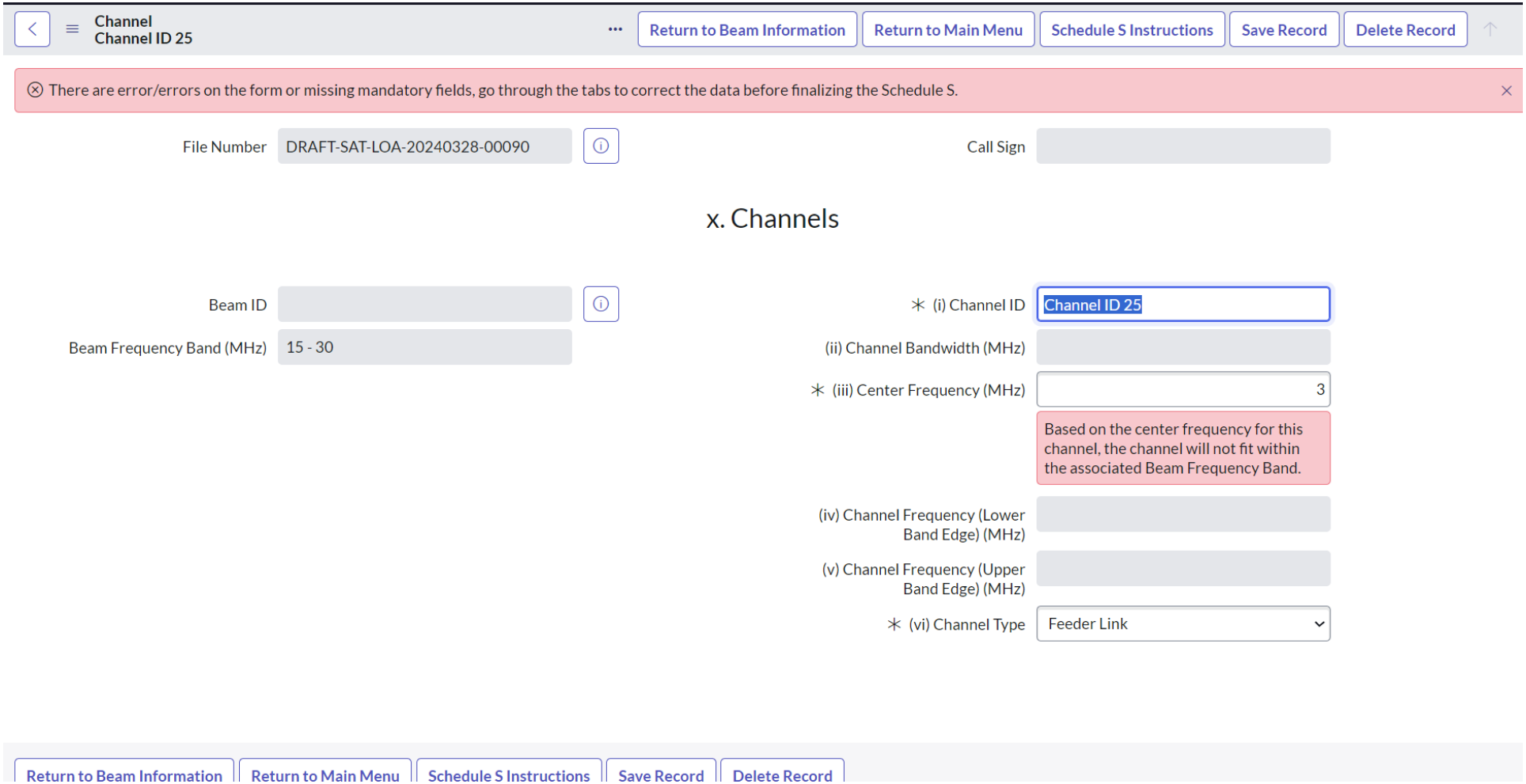

Earth to Space Receive
New record
Schedule S Instruction
File Number
DRAFT-SAT-MOD-20240320-00076
Call Sign
S4. Earth-to-Space (Receive) Beams
✳ a. Beam ID
R25
✳ b. Beam Frequency (Lower Band Edge) (MHz)
29500
✳ c. Beam Frequency (Upper Band Edge) (MHz)
30000
✳ d. Polarization
LHCP
✳ e. Can the space 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 --



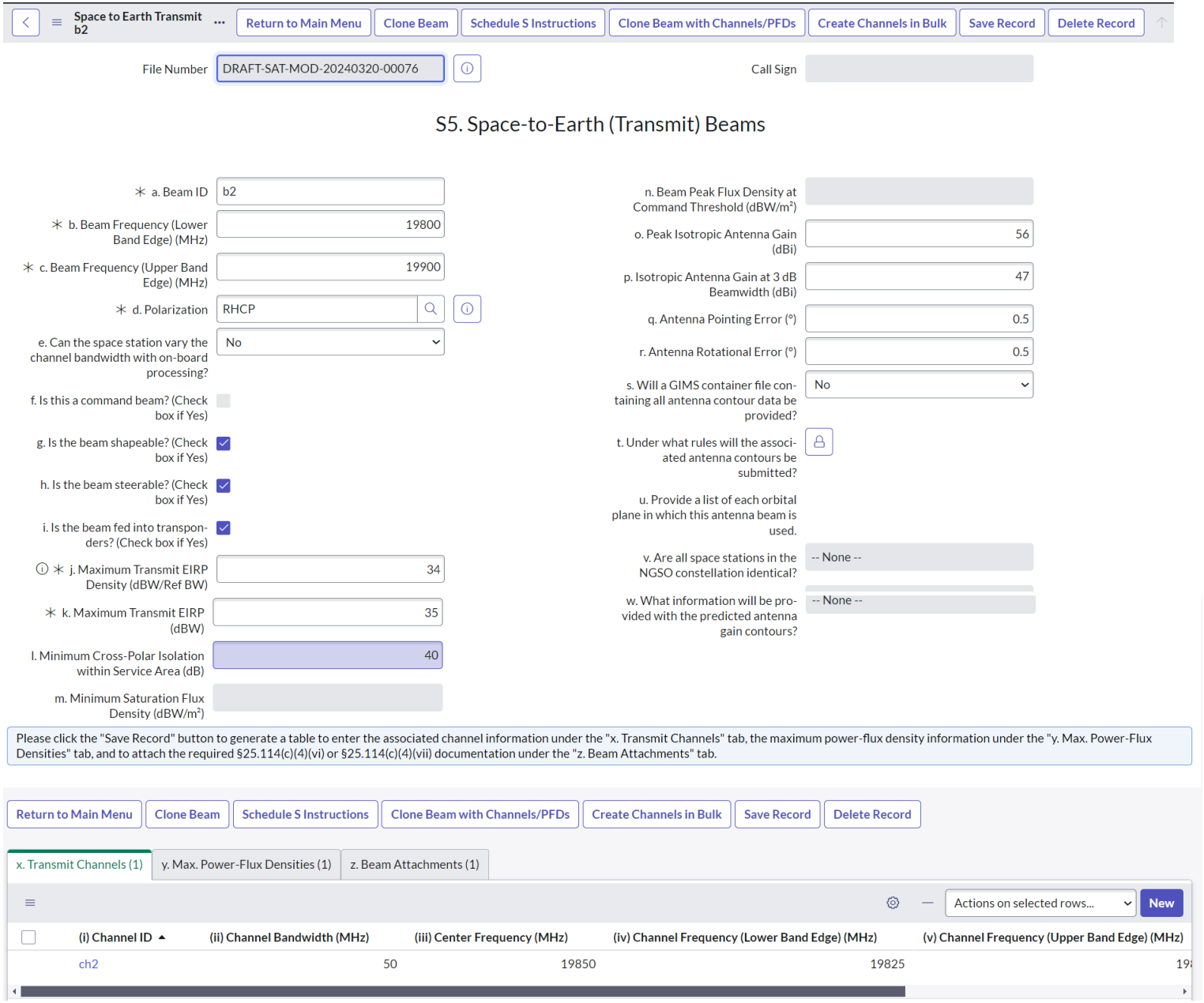
S4z. Beam Attachments



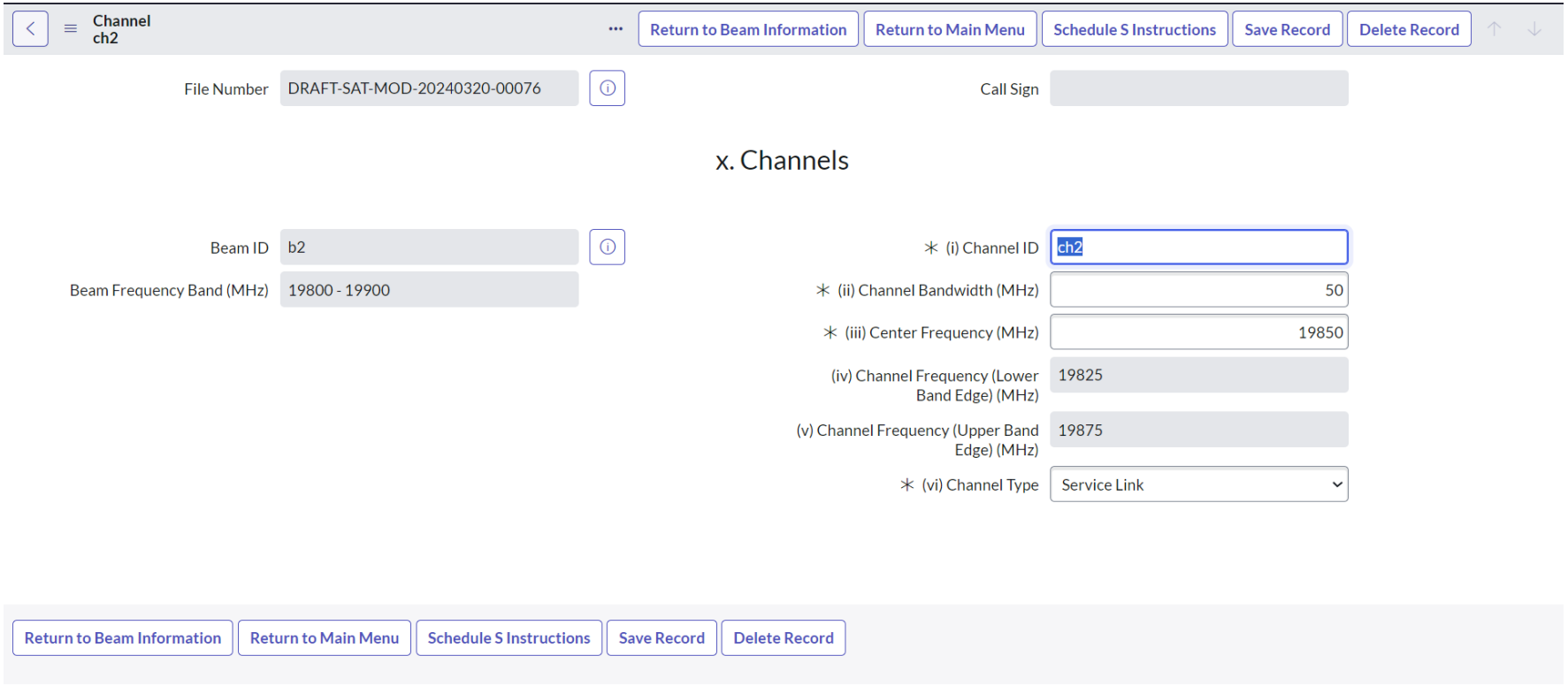
S4x. Receive Channels



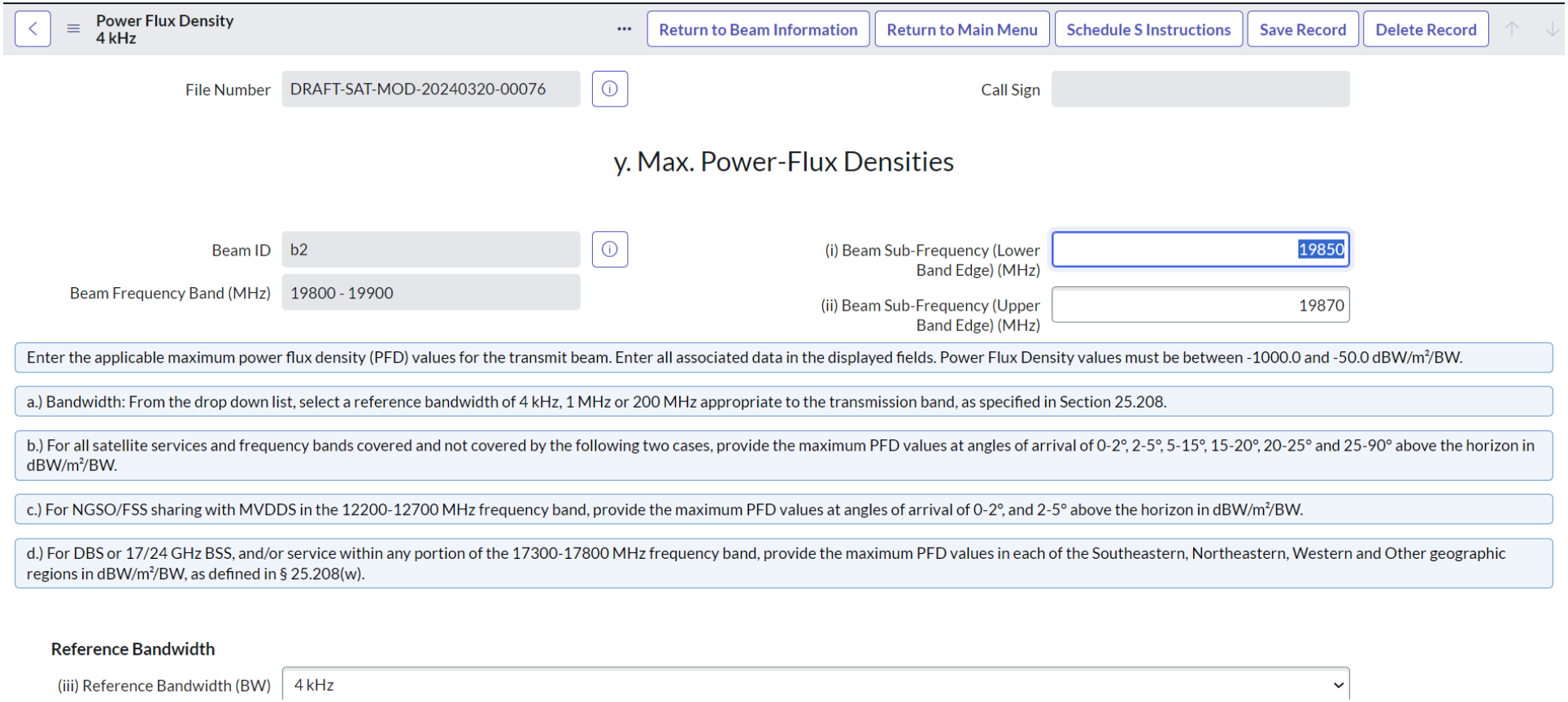
S5. Space-to-Earth (Transmit) Beams



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

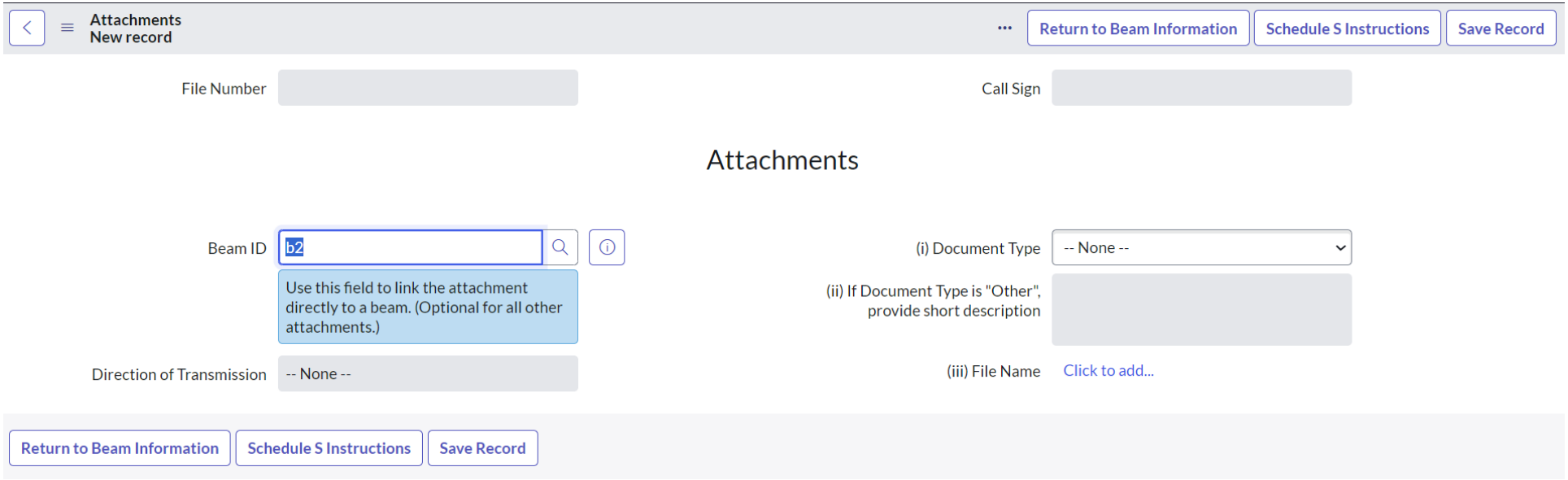
(x) Southeastern Region (dBW/m²/BW)	
(xi) Northeastern Region (dBW/m²/BW)	
(xii) Western Region (dBW/m²/BW)	
(xiii) Other Region (dBW/m²/BW)	

Energy Dispersal Bandwidth

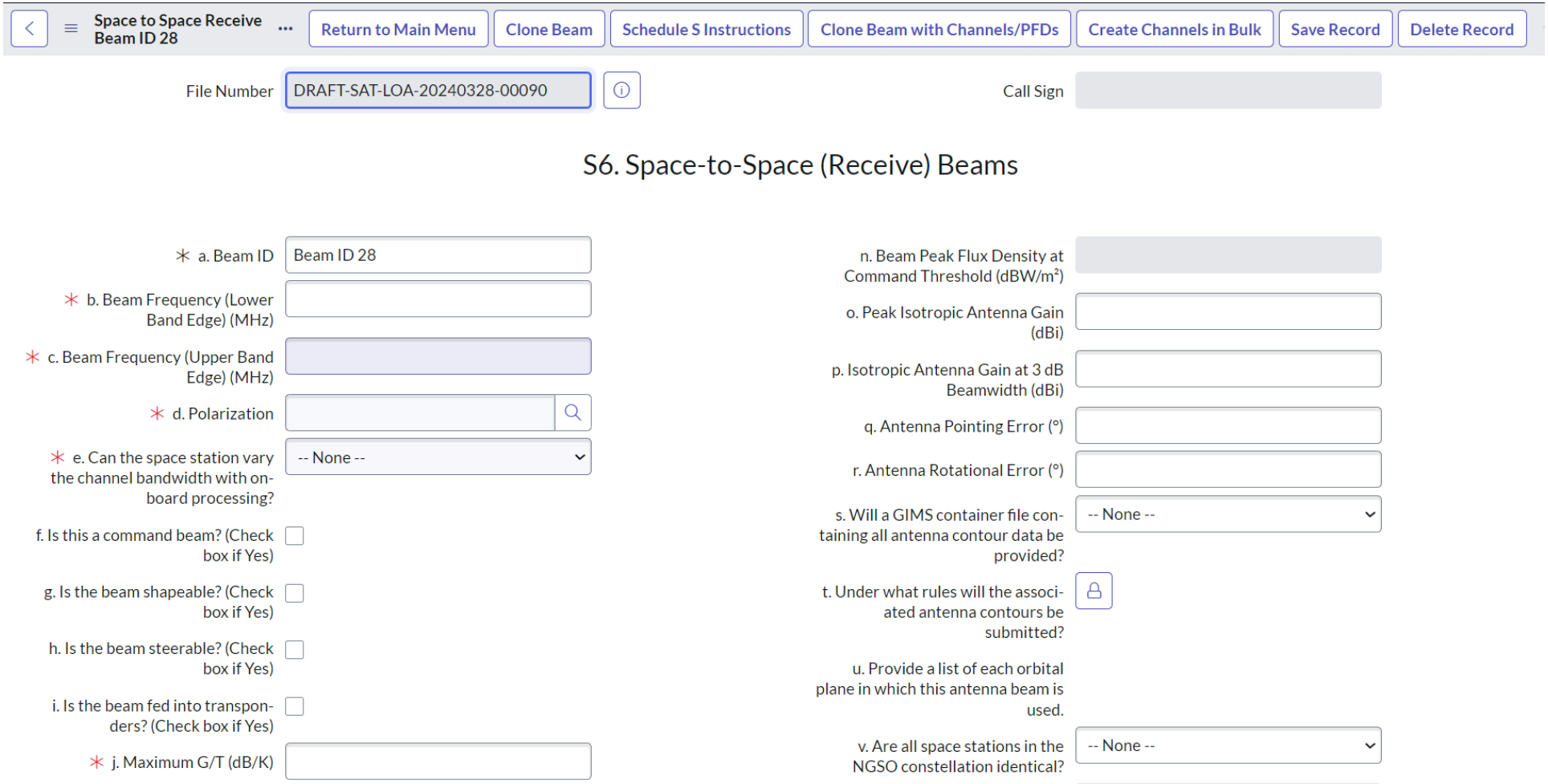
(xiv) Energy Dispersal Bandwidth (kHz)	40

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

S5z. Beam Attachments



S6. Space-to-Space (receive) Beams



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.

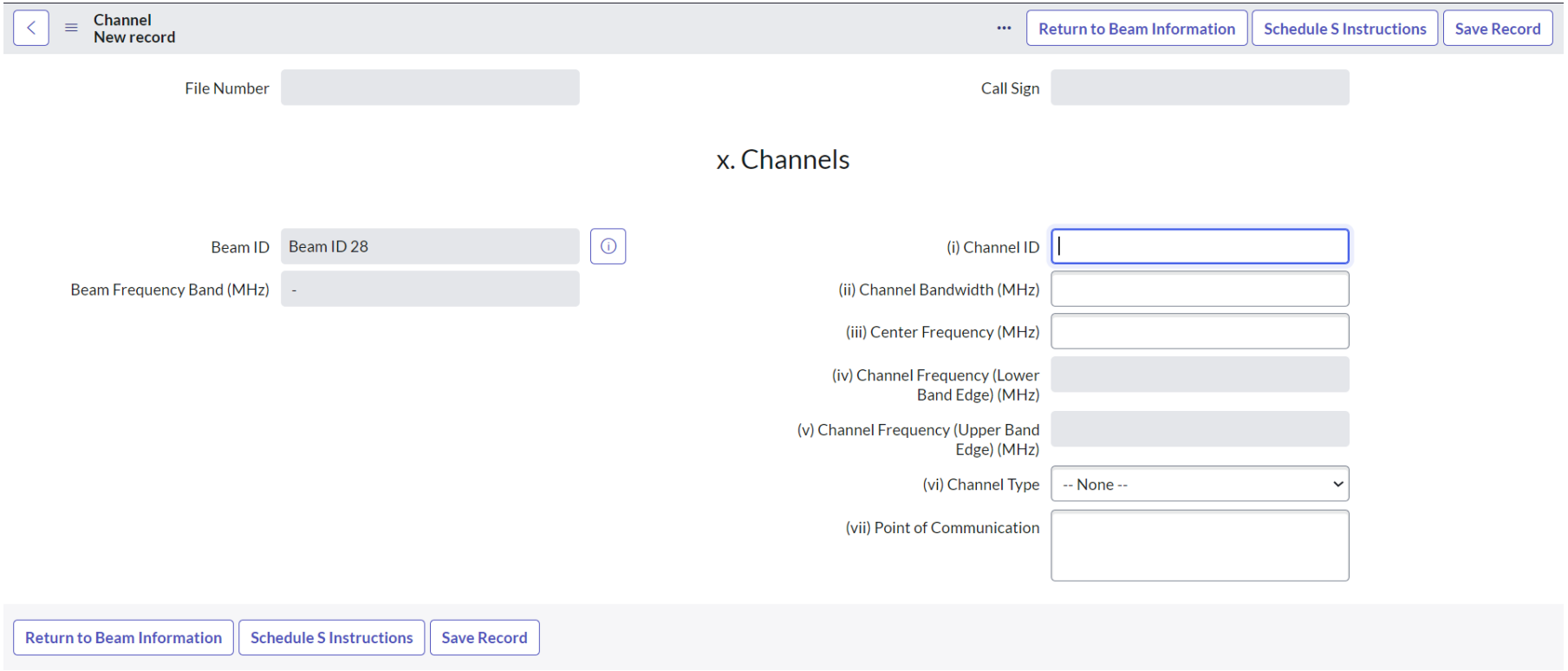
Return to Main Menu | Clone Beam | Schedule S Instructions | Clone Beam with Channels/PFDs | Create Channels in Bulk | Save Record | Delete Record

x. Receive Channels | z. Beam Attachments

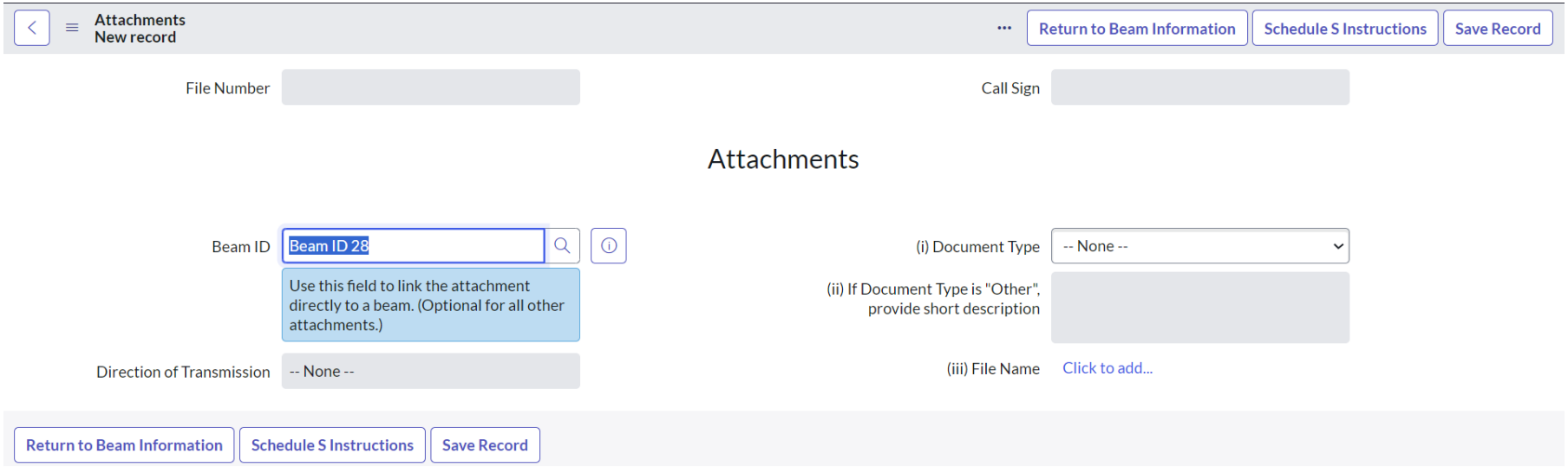
New

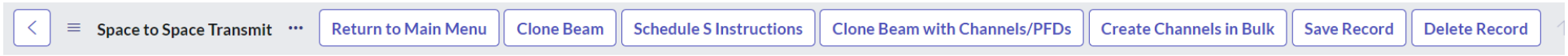
(i) Channel ID ▲	(ii) Channel Bandwidth (MHz)	(iii) Center Frequency (MHz)	(iv) Channel Frequency (Lower Band Edge) (MHz)	(v) Channel Frequency (Upper Band Edge) (MHz)

S6x. Receive Channel



S6z. Attachments





File Number: DRAFT-SAT-LOA-20240328-00090

Call Sign:

S7. Space-to-Space (Transmit) 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 Transmit EIRP Density (dBW/Ref BW)
* 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 --
w. What information will be provided with the predicted antenna gain contours? -- None --

m. Beam Peak Flux Density at Command Threshold (dBW/m²)

Please click the "Save Record" button to generate a table to enter the associated channel information under the "x. Transmit Channels" tab, the maximum power-flux density information under the "y. Max. Power-Flux Densities" tab, and to attach the required §25.114(c)(4)(vi) or §25.114(c)(4)(vii) documentation under the "z. Beam Attachments" tab.

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 Attachments

New

(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)

S7x. Transmit Channels

Channel
New record

Return to Beam Information | Schedule S Instructions | Save Record

File Number

Call Sign

x. Channels

Beam ID

Beam Frequency Band (MHz)

(i) Channel ID

(ii) Channel Bandwidth (MHz)

(iii) Center Frequency (MHz)

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

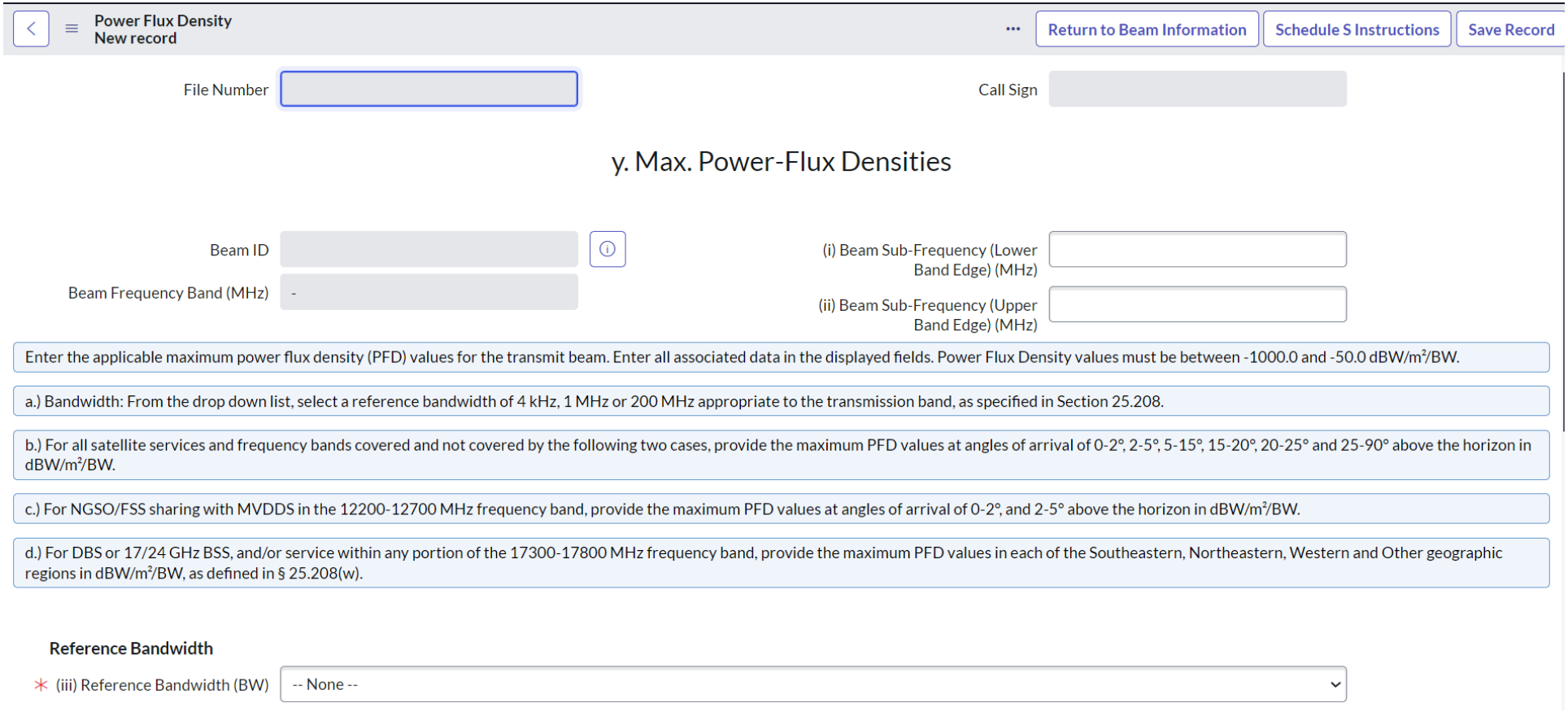
(v) Channel Frequency (Upper Band Edge) (MHz)

(vi) Channel Type -- None --

(vii) Point of Communication

Return to Beam Information | Schedule S Instructions | Save Record

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

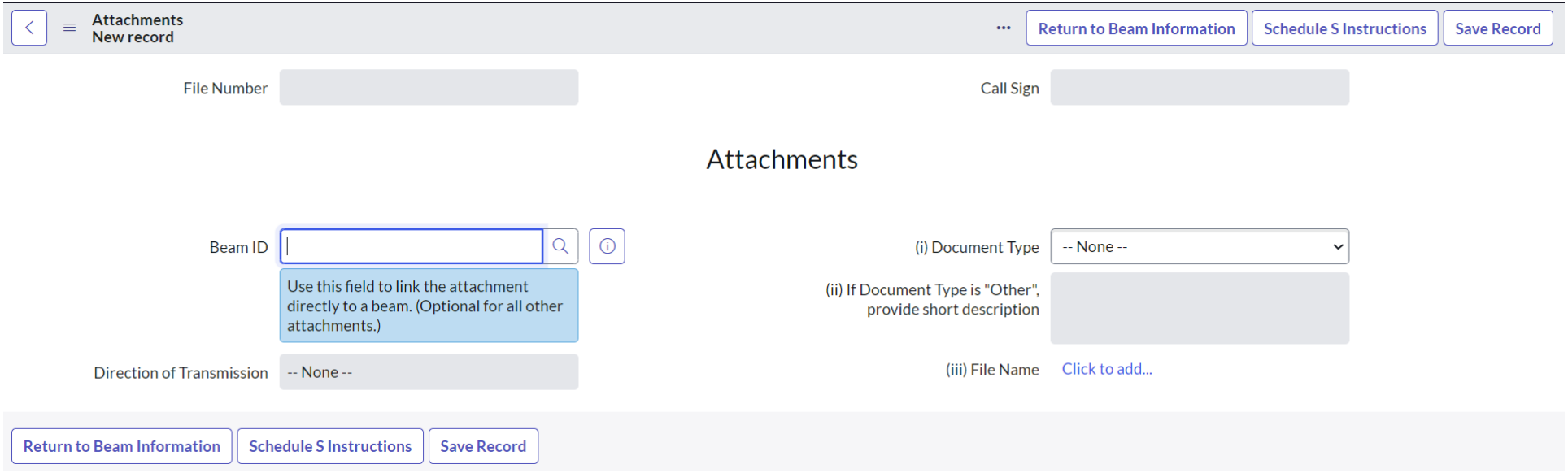
(x) Southeastern Region (dBW/m²/BW)	
(xi) Northeastern Region (dBW/m²/BW)	
(xii) Western Region (dBW/m²/BW)	
(xiii) Other Region (dBW/m²/BW)	

Energy Dispersal Bandwidth

(xiv) Energy Dispersal Bandwidth (kHz)	

Return to Beam Information | Schedule S Instructions | Save Record

S7z. Attachments



S8. Attachments