Approved by OMB
3060−0678

Date & Time Filed: Oct 17 2018 12:46:47:693PM
File Number: SES−REG−INTR2018−09132
Callsign/Satellite ID:

| APPLICATION FOR EARTH STATION AUTHORIZATIONS<br><br>FCC 312 MAIN FORM<br>FOR OFFICIAL USE ONLY | FCC Use Only |
|---|---|

APPLICANT INFORMATION
Enter a description of this application to identify it on the main menu:
Entercom License C−Band Registrations

1−8. Legal Name of Applicant

| | | | |
|---|---|---|---|
| **Name:** | Entercom License, LLC | **Phone Number:** | 610−660−5610 |
| **DBA Name:** | | **Fax Number:** | 610−660−5620 |
| **Street:** | 401 E. City Avenue<br>Suite 809 | **E−Mail:** | asutor@entercom.com |
| **City:** | Bala Cynwyd | **State:** | PA |
| **Country:** | USA | **Zipcode:** | 19004 − |
| **Attention:** | Andrew P Sutor IV | | |

9−16. Name of Contact Representative

| | | | |
|---|---|---|---|
| **Name:** | John Kennedy | **Phone Number:** | 617−779−5367 |
| **Company:** | Entercom Communications Corp. | **Fax Number:** | |
| **Street:** | 20 Guest Street<br>3rd Floor | **E−Mail:** | jkennedy@entercom.com |
| **City:** | Boston | **State:** | MA |
| **Country:** | USA | **Zipcode:** | 02135− |
| **Attention:** | John Kennedy | **Relationship:** | Same |

CLASSIFICATION OF FILING

| 17. Choose the button next to the classification that applies to this filing for both questions a. and b. Choose only one for 17a and only one for 17b.<br><br>a.<br>◉ a1. Earth Station<br>(N/A) a2. Space Station | b.<br>○ b1. Application for License of New Station<br>◉ b2. Application for Registration of New Domestic Receive−Only Station<br>(N/A) b3. Amendment to a Pending Application<br>(N/A) b4. Modification of License or Registration<br>(N/A) b5. Assignment of License or Registration<br>(N/A) b6. Transfer of Control of License or Registration<br>(N/A) b7. Notification of Minor Modification<br>(N/A) b8. Application for License of New Receive−Only Station Using Non−U.S. Licensed Satellite<br>(N/A) b9. Letter of Intent to Use Non−U.S. Licensed Satellite to Provide Service in the United States<br>○ b10. Other (Please specify)<br>○ b11. Application for Earth Station to Access a Non−U.S.satellite Not Currently Authorized to Provide the Proposed Service in the Proposed Frequencies in the United States.<br>○ b12. Application for Database Entry<br>(N/A) b13. Amendment to a Pending Database Entry Application<br>(N/A) b14. Modifiction of Database Entry |
|---|---|
| 17c. Is a fee submitted with this application?<br>○ If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).<br>○ Governmental Entity ○ Noncommercial educational licensee<br>◉ Other(please explain): PGC3166528 Paid on 10/16/18 | |
| 17d.<br><br>Fee Classification | |

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

AUDIO

FREQUENCY COORDINATION

| **E28. Antenna Id** | **E51. Satellite Orbit Type** | **E52/53. Frequency Limits(MHz)** | **E54/55. Range of Satellite Arc E/W Limit** | **E56. Earth Station Azimuth Angle Eastern Limit** | **E57. Antenna Elevation Angle Eastern Limit** | **E58. Earth Station Azimuth Angle Western Limit** | **E59. Antenna Elevation Angle Western Limit** | **E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)** |
|---|---|---|---|---|---|---|---|---|
| 25443 | Geostationary | 3700<br>4200 | 0.0/ 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REMOTE CONTROL POINT LOCATION

| E61. Call Sign<br><br>NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed. | | E65. Phone Number | |
|---|---|---|---|
| E62. Street Address | | | |
| E63. City | E67. County | E64/68. State/Country / | E66. Zip Code |

SATELLITE EARTH STATION AUTHORIZATIONS
FCC Form 312 − Schedule B:(Technical and Operational Description)
FOR OFFICIAL USE ONLY

Location of Earth Station Site

| | | | | |
|---|---|---|---|---|
| E1: Site Identifier: | 18525 | E5. Call Sign: | | |
| E2: Contact Name | JOHN KENNEDY | E6. Phone Number: | 484−270−6320 | |
| E3. Street: | 651 HOLIDAY DRIVE | E7. City: | PITTSBURGH | |
| | | E8. County: | ALLEGHENY | |
| E4. State | PA | E9. Zip Code | 15220 | |
| E10. Area of Operation: | | PITTSBURGH | | |
| E11. Latitude: | 40 °25 ’19.45 "N | | | |
| E12. Longitude: | 80 °3 ’39.5 "W | | | |
| E13. Lat/Lon Coordinates are: | | ○ NAD−27 | ◉ NAD−83 | ○ N/A |
| E14. Site Elevation (AMSL): | | 353.6 meters | | |

| | |
|---|---|
| E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two−degree spacing policy. | ◉ Yes ○ No ○ N/A |
| E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non−geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements? | ○ Yes ○ No ◉ N/A |
| E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point. | ○ Yes ◉ No |

E18. Is frequency coordination required? If YES, attach a frequency coordination report as

○ Yes ◉ No

E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as

○ Yes ◉ No

E20. FAA Notification − (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and or the FAA's study regarding the potential hazard of the structure to aviation?

○ Yes ◉ No

FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.

POINTS OF COMMUNICATION

| | |
|---|---|
| Satellite Name:PERMITTED LIST \| \| | If you selected OTHER, please enter the following: |

| | |
|---|---|
| E21. Common Name: | E22. ITU Name: |
| E23. Orbit Location: | E24. Country: |

POINTS OF COMMUNICATION (Destination Points)

| | |
|---|---|
| E25. Site Identifier: | |
| E26. Common Name: | E27. Country: |

ANTENNA

| Site ID | E28. Antenna Id | E29. Quantity | E30. Manufacturer | E31. Model | E32. Antenna Size<meters> | E41/42. Antenna GainTransmint and/or Recieve (____dBi at _____GHz) |
|---|---|---|---|---|---|---|
| 18525 | 18525 | 1 | COMSAT | D42 | 4.2 | 43.0 dBi at 3.95 |

| E28. Antenna Id | E33/34. Diameter Minor/Major (meters) | E35. Above Ground Level<BR> (meters) | E36. Above Sea Level<BR> (meters) | E37. Building Height Above Ground Level<BR> (meters) | E38. Total Input Power at antenna flange<BR> (Watts) | E39. Maximum Antenna Height Above Rooftop<BR> (meters) | E40. Total EIRP for al carriers<BR> (dBW) |
|---|---|---|---|---|---|---|---|
| 18525 | 4.2/4.2 | 0.0 | 0.0 | 18.3 | 0.0 | 3.0 | 0.0 |

FREQUENCY

| E28. Antenna Id | E43/44. Frequency Bands (MHz) | E45. T/R Mode | E46. Antenna Polarization(H,V, L,R) | E47. Emission Designator | E48. Maximum EIRP per Carrier (dBW) | E49. Maximum ERIP Density per Carrier (dBW/4kHz) |
|---|---|---|---|---|---|---|
| 18525 | 3700 4200 | R | Vertical | N/A | 0.0 | 0.0 |

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

AUDIO

FREQUENCY COORDINATION

| **E28. Antenna Id** | **E51. Satellite Orbit Type** | **E52/53. Frequency Limits(MHz)** | **E54/55. Range of Satellite Arc E/W Limit** | **E56. Earth Station Azimuth Angle Eastern Limit** | **E57. Antenna Elevation Angle Eastern Limit** | **E58. Earth Station Azimuth Angle Western Limit** | **E59. Antenna Elevation Angle Western Limit** | **E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)** |
|---|---|---|---|---|---|---|---|---|
| 18525 | Geostationary | 3700<br>4200 | 0.0/ 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REMOTE CONTROL POINT LOCATION

| E61. Call Sign<br><br>NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed. | | E65. Phone Number | |
|---|---|---|---|
| E62. Street Address | | | |
| E63. City | E67. County | E64/68. State/Country / | E66. Zip Code |

SATELLITE EARTH STATION AUTHORIZATIONS
FCC Form 312 − Schedule B:(Technical and Operational Description)
FOR OFFICIAL USE ONLY

Location of Earth Station Site

| | | | | |
|---|---|---|---|---|
| E1: Site Identifier: | PORTLAND | E5. Call Sign: | | |
| E2: Contact Name | JOHN KENNEDY | E6. Phone Number: | 484−270−6320 | |
| E3. Street: | 0700 BANCROFT ST | E7. City: | PORTLAND | |
| | | E8. County: | MULTNOMAH | |
| E4. State | OR | E9. Zip Code | 97239 | |
| E10. Area of Operation: | | PORTLAND | | |
| E11. Latitude: | 45 °29 ’32.2 "N | | | |
| E12. Longitude: | 122 °40 ’13.4 "W | | | |
| E13. Lat/Lon Coordinates are: | | ○ NAD−27 | ◉ NAD−83 | ○ N/A |
| E14. Site Elevation (AMSL): | | 8.8 meters | | |

| | |
|---|---|
| E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two−degree spacing policy. | ◉ Yes ○ No ○ N/A |
| E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non−geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements? | ○ Yes ○ No ◉ N/A |
| E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point. | ○ Yes ◉ No |

| | |
|---|---|
| E18. Is frequency coordination required? If YES, attach a frequency coordination report as | ○ Yes ◉ No |
| E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as | ○ Yes ◉ No |
| E20. FAA Notification − (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and or the FAA's study regarding the potential hazard of the structure to aviation?<br>FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION. | ○ Yes ◉ No |

POINTS OF COMMUNICATION

| | |
|---|---|
| Satellite Name:PERMITTED LIST \| \| | If you selected OTHER, please enter the following: |

| | |
|---|---|
| E21. Common Name: | E22. ITU Name: |
| E23. Orbit Location: | E24. Country: |

POINTS OF COMMUNICATION (Destination Points)

| | |
|---|---|
| E25. Site Identifier: | |
| E26. Common Name: | E27. Country: |

ANTENNA

| Site ID | E28. Antenna Id | E29. Quantity | E30. Manufacturer | E31. Model | E32. Antenna Size<meters> | E41/42. Antenna GainTransmint and/or Recieve (____dBi at _____GHz) |
|---|---|---|---|---|---|---|
| PORTLAND | PORTLAND | 1 | NOT AVAILABLE | NOT AVAILABLE | 3.8 | 42.0 dBi at 3.95 |

| E28. Antenna Id | E33/34. Diameter Minor/Major (meters) | E35. Above Ground Level<BR> (meters) | E36. Above Sea Level<BR> (meters) | E37. Building Height Above Ground Level<BR> (meters) | E38. Total Input Power at antenna flange<BR> (Watts) | E39. Maximum Antenna Height Above Rooftop<BR> (meters) | E40. Total EIRP for al carriers<BR> (dBW) |
|---|---|---|---|---|---|---|---|
| PORTLAND | 3.8/3.8 | 7.5 | 4.0 | 7.5 | 0.0 | 4.0 | 0.0 |

FREQUENCY

| E28. Antenna Id | E43/44. Frequency Bands (MHz) | E45. T/R Mode | E46. Antenna Polarization(H,V, L,R) | E47. Emission Designator | E48. Maximum EIRP per Carrier (dBW) | E49. Maximum ERIP Density per Carrier (dBW/4kHz) |
|---|---|---|---|---|---|---|
| PORTLAND | 3700 4200 | R | Vertical | N/A | 0.0 | 0.0 |

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

AUDIO

FREQUENCY COORDINATION

| **E28. Antenna Id** | **E51. Satellite Orbit Type** | **E52/53. Frequency Limits(MHz)** | **E54/55. Range of Satellite Arc E/W Limit** | **E56. Earth Station Azimuth Angle Eastern Limit** | **E57. Antenna Elevation Angle Eastern Limit** | **E58. Earth Station Azimuth Angle Western Limit** | **E59. Antenna Elevation Angle Western Limit** | **E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)** |
|---|---|---|---|---|---|---|---|---|
| PORTLAND | Geostationary | 3700<br>4200 | 0.0/ 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REMOTE CONTROL POINT LOCATION

| E61. Call Sign<br><br>NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed. | | E65. Phone Number | |
|---|---|---|---|
| E62. Street Address | | | |
| E63. City | E67. County | E64/68. State/Country / | E66. Zip Code |

SATELLITE EARTH STATION AUTHORIZATIONS
FCC Form 312 − Schedule B:(Technical and Operational Description)
FOR OFFICIAL USE ONLY

Location of Earth Station Site

| | | | | |
|---|---|---|---|---|
| E1: Site Identifier: | RICHMOND | E5. Call Sign: | | |
| E2: Contact Name | JOHN KENNEDY | E6. Phone Number: | 484−270−6320 | |
| E3. Street: | 3245 BAISE ROAD | E7. City: | HENRICO | |
| | | E8. County: | HENRICO | |
| E4. State | VA | E9. Zip Code | 23228 | |
| E10. Area of Operation: | | RICHMOND | | |
| E11. Latitude: | 37 °36 ’51.5 "N | | | |
| E12. Longitude: | 77 °30 ’51.9 "W | | | |
| E13. Lat/Lon Coordinates are: | | ○ NAD−27 | ◉ NAD−83 | ○ N/A |
| E14. Site Elevation (AMSL): | | 69.19 meters | | |

| | |
|---|---|
| E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two−degree spacing policy. | ◉ Yes ○ No ○ N/A |
| E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non−geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements? | ○ Yes ○ No ◉ N/A |
| E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point. | ○ Yes ◉ No |

| | |
|---|---|
| E18. Is frequency coordination required? If YES, attach a frequency coordination report as | ○ Yes ◉ No |
| E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as | ○ Yes ◉ No |
| E20. FAA Notification − (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and or the FAA's study regarding the potential hazard of the structure to aviation?<br>FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION. | ○ Yes ◉ No |

POINTS OF COMMUNICATION

| | |
|---|---|
| Satellite Name:PERMITTED LIST \| \| | If you selected OTHER, please enter the following: |

| | |
|---|---|
| E21. Common Name: | E22. ITU Name: |
| E23. Orbit Location: | E24. Country: |

POINTS OF COMMUNICATION (Destination Points)

| | |
|---|---|
| E25. Site Identifier: | |
| E26. Common Name: | E27. Country: |

ANTENNA

| Site ID | E28. Antenna Id | E29. Quantity | E30. Manufacturer | E31. Model | E32. Antenna Size<meters> | E41/42. Antenna GainTransmint and/or Recieve (____dBi at _____GHz) |
|---|---|---|---|---|---|---|
| RICHMOND | RICHMOND | 1 | COMTECH | OFFSET | 4.1 | 41.0 dBi at 3.95 |

| E28. Antenna Id | E33/34. Diameter Minor/Major (meters) | E35. Above Ground Level<BR> (meters) | E36. Above Sea Level<BR> (meters) | E37. Building Height Above Ground Level<BR> (meters) | E38. Total Input Power at antenna flange<BR> (Watts) | E39. Maximum Antenna Height Above Rooftop<BR> (meters) | E40. Total EIRP for al carriers<BR> (dBW) |
|---|---|---|---|---|---|---|---|
| RICHMOND | 4.1/4.1 | 3.66 | 75.85 | 0.0 | 0.0 | 0.0 | 0.0 |

FREQUENCY

| E28. Antenna Id | E43/44. Frequency Bands (MHz) | E45. T/R Mode | E46. Antenna Polarization(H,V, L,R) | E47. Emission Designator | E48. Maximum EIRP per Carrier (dBW) | E49. Maximum ERIP Density per Carrier (dBW/4kHz) |
|---|---|---|---|---|---|---|
| RICHMOND | 3700 4200 | R | Vertical | N/A | 0.0 | 0.0 |

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

AUDIO

FREQUENCY COORDINATION

| **E28. Antenna Id** | **E51. Satellite Orbit Type** | **E52/53. Frequency Limits(MHz)** | **E54/55. Range of Satellite Arc E/W Limit** | **E56. Earth Station Azimuth Angle Eastern Limit** | **E57. Antenna Elevation Angle Eastern Limit** | **E58. Earth Station Azimuth Angle Western Limit** | **E59. Antenna Elevation Angle Western Limit** | **E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)** |
|---|---|---|---|---|---|---|---|---|
| RICHMOND | Geostationary | 3700<br>4200 | 0.0/ 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REMOTE CONTROL POINT LOCATION

| E61. Call Sign<br><br>NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed. | | E65. Phone Number | |
|---|---|---|---|
| E62. Street Address | | | |
| E63. City | E67. County | E64/68. State/Country / | E66. Zip Code |

SATELLITE EARTH STATION AUTHORIZATIONS
FCC Form 312 − Schedule B:(Technical and Operational Description)
FOR OFFICIAL USE ONLY

Location of Earth Station Site

| | | | |
|---|---|---|---|
| E1: Site Identifier: | 1241 | E5. Call Sign: | |
| E2: Contact Name | JOHN KENNEDY | E6. Phone Number: | 484−270−6320 |
| E3. Street: | 900 E. WASHINGTON | E7. City: | COLTON |
| | SUITE 315 | E8. County: | SAN BERNARDINO |
| E4. State | CA | E9. Zip Code | 92324 |
| E10. Area of Operation: | | RIVERSIDE | |
| E11. Latitude: | 34 °2 ’49.7 "N | | |
| E12. Longitude: | 117 °18 ’46.1 "W | | |

E13. Lat/Lon Coordinates are: ○ NAD−27 ◉ NAD−83 ○ N/A

E14. Site Elevation (AMSL): 283.9 meters

| | |
|---|---|
| E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two−degree spacing policy. | ◉ Yes ○ No ○ N/A |
| E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non−geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements? | ○ Yes ○ No ◉ N/A |
| E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point. | ○ Yes ◉ No |

| | |
|---|---|
| E18. Is frequency coordination required? If YES, attach a frequency coordination report as | ○ Yes ◉ No |
| E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as | ○ Yes ◉ No |
| E20. FAA Notification − (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and or the FAA's study regarding the potential hazard of the structure to aviation?<br>FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION. | ○ Yes ◉ No |

POINTS OF COMMUNICATION

| | |
|---|---|
| Satellite Name:PERMITTED LIST \| \| | If you selected OTHER, please enter the following: |

| | |
|---|---|
| E21. Common Name: | E22. ITU Name: |
| E23. Orbit Location: | E24. Country: |

POINTS OF COMMUNICATION (Destination Points)

| | |
|---|---|
| E25. Site Identifier: | |
| E26. Common Name: | E27. Country: |

ANTENNA

| Site ID | E28. Antenna Id | E29. Quantity | E30. Manufacturer | E31. Model | E32. Antenna Size<meters> | E41/42. Antenna GainTransmint and/or Recieve (____dBi at _____GHz) |
|---|---|---|---|---|---|---|
| 1241 | 1241 | 1 | NOT AVAILABLE | NOT AVAILABLE | 3.7 | 41.0 dBi at 3.95 |

| E28. Antenna Id | E33/34. Diameter Minor/Major (meters) | E35. Above Ground Level<BR> (meters) | E36. Above Sea Level<BR> (meters) | E37. Building Height Above Ground Level<BR> (meters) | E38. Total Input Power at antenna flange<BR> (Watts) | E39. Maximum Antenna Height Above Rooftop<BR> (meters) | E40. Total EIRP for al carriers<BR> (dBW) |
|---|---|---|---|---|---|---|---|
| 1241 | 3.7/3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

FREQUENCY

| E28. Antenna Id | E43/44. Frequency Bands (MHz) | E45. T/R Mode | E46. Antenna Polarization(H,V, L,R) | E47. Emission Designator | E48. Maximum EIRP per Carrier (dBW) | E49. Maximum ERIP Density per Carrier (dBW/4kHz) |
|---|---|---|---|---|---|---|
| 1241 | 3700 4200 | R | Vertical | N/A | 0.0 | 0.0 |

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

AUDIO

FREQUENCY COORDINATION

| **E28. Antenna Id** | **E51. Satellite Orbit Type** | **E52/53. Frequency Limits(MHz)** | **E54/55. Range of Satellite Arc E/W Limit** | **E56. Earth Station Azimuth Angle Eastern Limit** | **E57. Antenna Elevation Angle Eastern Limit** | **E58. Earth Station Azimuth Angle Western Limit** | **E59. Antenna Elevation Angle Western Limit** | **E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)** |
|---|---|---|---|---|---|---|---|---|
| 1241 | Geostationary | 3700<br>4200 | 0.0/ 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REMOTE CONTROL POINT LOCATION

E61. Call Sign

E65. Phone Number

NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.

E62. Street Address

E63. City

E67. County

E64/68. State/Country

/

E66. Zip Code

SATELLITE EARTH STATION AUTHORIZATIONS
FCC Form 312 − Schedule B:(Technical and Operational Description)
FOR OFFICIAL USE ONLY

Location of Earth Station Site

| | | | | |
|---|---|---|---|---|
| E1: Site Identifier: | ROCHESTER | E5. Call Sign: | | |
| E2: Contact Name | JOHN KENNEDY | E6. Phone Number: | 484−270−6320 | |
| E3. Street: | 70 COMMERCIAL STREET | E7. City: | ROCHESTER | |
| | | E8. County: | MONROE | |
| E4. State | NY | E9. Zip Code | 14614 | |
| E10. Area of Operation: | | ROCHESTER | | |
| E11. Latitude: | 43 °9 ’36.45 "N | | | |
| E12. Longitude: | 77 °36 ’56.43 "W | | | |
| E13. Lat/Lon Coordinates are: | | ○ NAD−27 | ◉ NAD−83 | ○ N/A |
| E14. Site Elevation (AMSL): | | 148.7 meters | | |

| | |
|---|---|
| E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two−degree spacing policy. | ◉ Yes ○ No ○ N/A |
| E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non−geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements? | ○ Yes ○ No ◉ N/A |
| E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point. | ○ Yes ◉ No |

| | |
|---|---|
| E18. Is frequency coordination required? If YES, attach a frequency coordination report as | ○ Yes ◉ No |
| E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as | ○ Yes ◉ No |
| E20. FAA Notification − (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and or the FAA's study regarding the potential hazard of the structure to aviation?<br>FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION. | ○ Yes ◉ No |

POINTS OF COMMUNICATION

| | |
|---|---|
| Satellite Name:PERMITTED LIST \| \| | If you selected OTHER, please enter the following: |

| | |
|---|---|
| E21. Common Name: | E22. ITU Name: |
| E23. Orbit Location: | E24. Country: |

POINTS OF COMMUNICATION (Destination Points)

| | |
|---|---|
| E25. Site Identifier: | |
| E26. Common Name: | E27. Country: |

ANTENNA

| Site ID | E28. Antenna Id | E29. Quantity | E30. Manufacturer | E31. Model | E32. Antenna Size<meters> | E41/42. Antenna GainTransmint and/or Recieve (____dBi at _____GHz) |
|---|---|---|---|---|---|---|
| ROCHESTER | ROCHESTER | 1 | CHALLENGER | PRIMEFOCUS CHA380STD | 3.8 | 41.5 dBi at 3.9125 |

| E28. Antenna Id | E33/34. Diameter Minor/Major (meters) | E35. Above Ground Level<BR> (meters) | E36. Above Sea Level<BR> (meters) | E37. Building Height Above Ground Level<BR> (meters) | E38. Total Input Power at antenna flange<BR> (Watts) | E39. Maximum Antenna Height Above Rooftop<BR> (meters) | E40. Total EIRP for al carriers<BR> (dBW) |
|---|---|---|---|---|---|---|---|
| ROCHESTER | 3.8/3.8 | 149.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

FREQUENCY

| E28. Antenna Id | E43/44. Frequency Bands (MHz) | E45. T/R Mode | E46. Antenna Polarization(H,V, L,R) | E47. Emission Designator | E48. Maximum EIRP per Carrier (dBW) | E49. Maximum ERIP Density per Carrier (dBW/4kHz) |
|---|---|---|---|---|---|---|
| ROCHESTER | 3700 4200 | R | Vertical | N/A | 0.0 | 0.0 |

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

AUDIO

FREQUENCY COORDINATION

| **E28. Antenna Id** | **E51. Satellite Orbit Type** | **E52/53. Frequency Limits(MHz)** | **E54/55. Range of Satellite Arc E/W Limit** | **E56. Earth Station Azimuth Angle Eastern Limit** | **E57. Antenna Elevation Angle Eastern Limit** | **E58. Earth Station Azimuth Angle Western Limit** | **E59. Antenna Elevation Angle Western Limit** | **E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)** |
|---|---|---|---|---|---|---|---|---|
| ROCHESTER | Geostationary | 3700<br>4200 | 0.0/ 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REMOTE CONTROL POINT LOCATION

| E61. Call Sign<br><br>NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed. | | E65. Phone Number | |
|---|---|---|---|
| E62. Street Address | | | |
| E63. City | E67. County | E64/68. State/Country / | E66. Zip Code |

SATELLITE EARTH STATION AUTHORIZATIONS
FCC Form 312 − Schedule B:(Technical and Operational Description)
FOR OFFICIAL USE ONLY

Location of Earth Station Site

| | | | | |
|---|---|---|---|---|
| E1: Site Identifier: | SACRAMENTO | E5. Call Sign: | | |
| E2: Contact Name | JOHN KENNEDY | E6. Phone Number: | 484−270−6320 | |
| E3. Street: | 5345 MADISON AVENUE | E7. City: | SACRAMENTO | |
| | | E8. County: | SACRAMENTO | |
| E4. State | CA | E9. Zip Code | 95841 | |
| E10. Area of Operation: | | SACRAMENTO | | |
| E11. Latitude: | 38 °39 ’40.43 "N | | | |
| E12. Longitude: | 121 °20 ’21.77 "W | | | |
| E13. Lat/Lon Coordinates are: | | ○ NAD−27 | ◉ NAD−83 | ○ N/A |
| E14. Site Elevation (AMSL): | | 33.5 meters | | |

| | |
|---|---|
| E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two−degree spacing policy. | ◉ Yes ○ No ○ N/A |
| E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non−geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements? | ○ Yes ○ No ◉ N/A |
| E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point. | ○ Yes ◉ No |

| | |
|---|---|
| E18. Is frequency coordination required? If YES, attach a frequency coordination report as | ○ Yes ◉ No |
| E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as | ○ Yes ◉ No |
| E20. FAA Notification − (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and or the FAA's study regarding the potential hazard of the structure to aviation?<br>FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION. | ○ Yes ◉ No |

POINTS OF COMMUNICATION

| | |
|---|---|
| Satellite Name:PERMITTED LIST \| \| | If you selected OTHER, please enter the following: |

| | |
|---|---|
| E21. Common Name: | E22. ITU Name: |
| E23. Orbit Location: | E24. Country: |

POINTS OF COMMUNICATION (Destination Points)

| | |
|---|---|
| E25. Site Identifier: | |
| E26. Common Name: | E27. Country: |

ANTENNA

| Site ID | E28. Antenna Id | E29. Quantity | E30. Manufacturer | E31. Model | E32. Antenna Size<meters> | E41/42. Antenna GainTransmint and/or Recieve (____dBi at _____GHz) |
|---|---|---|---|---|---|---|
| SACRAMENTO | SACRAMENTO | 2 | PRODELIN | 1374 | 3.7 | 40.4 dBi at 3.95 |
| | | | | | | 40.4 dBi at 3.95 |

| E28. Antenna Id | E33/34. Diameter Minor/Major (meters) | E35. Above Ground Level<BR> (meters) | E36. Above Sea Level<BR> (meters) | E37. Building Height Above Ground Level<BR> (meters) | E38. Total Input Power at antenna flange<BR> (Watts) | E39. Maximum Antenna Height Above Rooftop<BR> (meters) | E40. Total EIRP for al carriers<BR> (dBW) |
|---|---|---|---|---|---|---|---|
| SACRAMENTO | 3.7/3.7 | 6.0 | 28.0 | 6.0 | 0.0 | 0.3 | 0.0 |

FREQUENCY

| E28. Antenna Id | E43/44. Frequency Bands (MHz) | E45. T/R Mode | E46. Antenna Polarization(H,V, L,R) | E47. Emission Designator | E48. Maximum EIRP per Carrier (dBW) | E49. Maximum ERIP Density per Carrier (dBW/4kHz) |
|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| SACRAMENTO | 3700 4200 | R | Vertical | N/A | 0.0 | 0.0 |

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

AUDIO

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| SACRAMENTO | 3700 4200 | R | Vertical | N/A | 0.0 | 0.0 |

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

AUDIO

FREQUENCY COORDINATION

| **E28. Antenna Id** | **E51. Satellite Orbit Type** | **E52/53. Frequency Limits(MHz)** | **E54/55. Range of Satellite Arc E/W Limit** | **E56. Earth Station Azimuth Angle Eastern Limit** | **E57. Antenna Elevation Angle Eastern Limit** | **E58. Earth Station Azimuth Angle Western Limit** | **E59. Antenna Elevation Angle Western Limit** | **E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)** |
|---|---|---|---|---|---|---|---|---|
| SACRAMENTO | Geostationary | 3700<br>4200 | 0.0/ 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Geostationary | 3700<br>4200 | 0.0/ 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REMOTE CONTROL POINT LOCATION

| | | | |
|---|---|---|---|
| E61. Call Sign<br><br>NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed. | | E65. Phone Number | |
| E62. Street Address | | | |
| E63. City | E67. County | E64/68. State/Country<br>/ | E66. Zip Code |

SATELLITE EARTH STATION AUTHORIZATIONS
FCC Form 312 − Schedule B:(Technical and Operational Description)
FOR OFFICIAL USE ONLY

Location of Earth Station Site

| | | | |
|---|---|---|---|
| E1: Site Identifier: | SAN FRANCISCO | E5. Call Sign: | |
| E2: Contact Name | JOHN KENNEDY | E6. Phone Number: | 484−270−6320 |
| E3. Street: | 865 BATTERY STREET | E7. City: | SAN FRANCISCO |
| | | E8. County: | SAN FRANCISCO |
| E4. State | CA | E9. Zip Code | 94111 |
| E10. Area of Operation: | | SAN FRANCISCO | |
| E11. Latitude: | 37 °47 ’56.1 "N | | |
| E12. Longitude: | 122 °24 ’4.8 "W | | |
| E13. Lat/Lon Coordinates are: | | ○ NAD−27 | ◉ NAD−83 ○ N/A |
| E14. Site Elevation (AMSL): | | 6.0 meters | |

| | |
|---|---|
| E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two−degree spacing policy. | ◉ Yes ○ No ○ N/A |
| E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non−geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements? | ○ Yes ○ No ◉ N/A |
| E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point. | ○ Yes ◉ No |

| | |
|---|---|
| E18. Is frequency coordination required? If YES, attach a frequency coordination report as | ○ Yes ◉ No |
| E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as | ○ Yes ◉ No |
| E20. FAA Notification − (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and or the FAA's study regarding the potential hazard of the structure to aviation?<br>FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION. | ○ Yes ◉ No |

POINTS OF COMMUNICATION

| | |
|---|---|
| Satellite Name:PERMITTED LIST \| \| | If you selected OTHER, please enter the following: |

| | |
|---|---|
| E21. Common Name: | E22. ITU Name: |
| E23. Orbit Location: | E24. Country: |

POINTS OF COMMUNICATION (Destination Points)

| | |
|---|---|
| E25. Site Identifier: | |
| E26. Common Name: | E27. Country: |

ANTENNA

| Site ID | E28. Antenna Id | E29. Quantity | E30. Manufacturer | E31. Model | E32. Antenna Size<meters> | E41/42. Antenna GainTransmint and/or Recieve (____dBi at _____GHz) |
|---|---|---|---|---|---|---|
| SAN FRANCISCO | SAN FRAN | 1 | PATRIOT | NOT AVAILABLE | 3.7 | 42.0 dBi at 3.95 |

| E28. Antenna Id | E33/34. Diameter Minor/Major (meters) | E35. Above Ground Level<BR> (meters) | E36. Above Sea Level<BR> (meters) | E37. Building Height Above Ground Level<BR> (meters) | E38. Total Input Power at antenna flange<BR> (Watts) | E39. Maximum Antenna Height Above Rooftop<BR> (meters) | E40. Total EIRP for al carriers<BR> (dBW) |
|---|---|---|---|---|---|---|---|
| SAN FRAN | 3.7/3.7 | 0.0 | 6.0 | 26.0 | 0.0 | 3.0 | 0.0 |

FREQUENCY

| E28. Antenna Id | E43/44. Frequency Bands (MHz) | E45. T/R Mode | E46. Antenna Polarization(H,V, L,R) | E47. Emission Designator | E48. Maximum EIRP per Carrier (dBW) | E49. Maximum ERIP Density per Carrier (dBW/4kHz) |
|---|---|---|---|---|---|---|
| SAN FRAN | 3700 4200 | R | Vertical | N/A | 0.0 | 0.0 |

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

AUDIO

FREQUENCY COORDINATION

| **E28. Antenna Id** | **E51. Satellite Orbit Type** | **E52/53. Frequency Limits(MHz)** | **E54/55. Range of Satellite Arc E/W Limit** | **E56. Earth Station Azimuth Angle Eastern Limit** | **E57. Antenna Elevation Angle Eastern Limit** | **E58. Earth Station Azimuth Angle Western Limit** | **E59. Antenna Elevation Angle Western Limit** | **E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)** |
|---|---|---|---|---|---|---|---|---|
| SAN FRAN | Geostationary | 3700<br>4200 | 0.0/ 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REMOTE CONTROL POINT LOCATION

| E61. Call Sign<br><br>NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed. | | E65. Phone Number | |
|---|---|---|---|
| E62. Street Address | | | |
| E63. City | E67. County | E64/68. State/Country / | E66. Zip Code |

SATELLITE EARTH STATION AUTHORIZATIONS
FCC Form 312 − Schedule B:(Technical and Operational Description)
FOR OFFICIAL USE ONLY

Location of Earth Station Site

| | | | | |
|---|---|---|---|---|
| E1: Site Identifier: | KISW | E5. Call Sign: | | |
| E2: Contact Name | JOHN KENNEDY | E6. Phone Number: | 484−270−6320 | |
| E3. Street: | 800 5TH AVENUE | E7. City: | SEATTLE | |
| | STE 1400 | E8. County: | KING | |
| E4. State | WA | E9. Zip Code | 98104 | |
| E10. Area of Operation: | | SEATTLE | | |
| E11. Latitude: | 46 °36 ’20.6 "N | | | |
| E12. Longitude: | 122 °19 ’50.4 "W | | | |
| E13. Lat/Lon Coordinates are: | | ○ NAD−27 | ◉ NAD−83 | ○ N/A |
| E14. Site Elevation (AMSL): | | 227.0 meters | | |

| | |
|---|---|
| E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two−degree spacing policy. | ◉ Yes ○ No ○ N/A |
| E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non−geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements? | ○ Yes ○ No ◉ N/A |
| E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point. | ○ Yes ◉ No |

E18. Is frequency coordination required? If YES, attach a frequency coordination report as ○ Yes ◉ No

E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as ○ Yes ◉ No

E20. FAA Notification − (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and or the FAA's study regarding the potential hazard of the structure to aviation? ○ Yes ◉ No
FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.

POINTS OF COMMUNICATION

| Satellite Name:PERMITTED LIST \| \| If you selected OTHER, please enter the following: | |
|---|---|
| E21. Common Name: | E22. ITU Name: |

| | |
|---|---|
| E23. Orbit Location: | E24. Country: |

POINTS OF COMMUNICATION (Destination Points)

| | |
|---|---|
| E25. Site Identifier: | |
| E26. Common Name: | E27. Country: |

ANTENNA

| Site ID | E28. Antenna Id | E29. Quantity | E30. Manufacturer | E31. Model | E32. Antenna Size<meters> | E41/42. Antenna GainTransmint and/or Recieve (____dBi at _____GHz) |
|---|---|---|---|---|---|---|
| KISW | KISW | 1 | NOT AVAILABLE | NOT AVAILABLE | 3.8 | 41.0 dBi at 3.95 |

| E28. Antenna Id | E33/34. Diameter Minor/Major (meters) | E35. Above Ground Level<BR> (meters) | E36. Above Sea Level<BR> (meters) | E37. Building Height Above Ground Level<BR> (meters) | E38. Total Input Power at antenna flange<BR> (Watts) | E39. Maximum Antenna Height Above Rooftop<BR> (meters) | E40. Total EIRP for al carriers<BR> (dBW) |
|---|---|---|---|---|---|---|---|
| KISW | 3.8/3.8 | 171.0 | 237.0 | 165.0 | 0.0 | 6.0 | 0.0 |

FREQUENCY

| E28. Antenna Id | E43/44. Frequency Bands (MHz) | E45. T/R Mode | E46. Antenna Polarization(H,V, L,R) | E47. Emission Designator | E48. Maximum EIRP per Carrier (dBW) | E49. Maximum ERIP Density per Carrier (dBW/4kHz) |
|---|---|---|---|---|---|---|
| KISW | 3700 4200 | R | Vertical | N/A | 0.0 | 0.0 |

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

AUDIO

FREQUENCY COORDINATION

| **E28. Antenna Id** | **E51. Satellite Orbit Type** | **E52/53. Frequency Limits(MHz)** | **E54/55. Range of Satellite Arc E/W Limit** | **E56. Earth Station Azimuth Angle Eastern Limit** | **E57. Antenna Elevation Angle Eastern Limit** | **E58. Earth Station Azimuth Angle Western Limit** | **E59. Antenna Elevation Angle Western Limit** | **E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)** |
|---|---|---|---|---|---|---|---|---|
| KISW | Geostationary | 3700<br>4200 | 0.0/ 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REMOTE CONTROL POINT LOCATION

| E61. Call Sign<br><br>NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed. | | E65. Phone Number | |
|---|---|---|---|
| E62. Street Address | | | |
| E63. City | E67. County | E64/68. State/Country / | E66. Zip Code |

SATELLITE EARTH STATION AUTHORIZATIONS
FCC Form 312 − Schedule B:(Technical and Operational Description)
FOR OFFICIAL USE ONLY

Location of Earth Station Site

| | | | | |
|---|---|---|---|---|
| E1: Site Identifier: | ST LOUIS1 | E5. Call Sign: | | |
| E2: Contact Name | JOHN KENNEDY | E6. Phone Number: | 484−270−6320 | |
| E3. Street: | 4480 HWY 162 | E7. City: | PONTOON BEACH | |
| | | E8. County: | MADISON | |
| E4. State | IL | E9. Zip Code | 62040 | |
| E10. Area of Operation: | | ST LOUIS | | |
| E11. Latitude: | 38 °43 ’25.01 "N | | | |
| E12. Longitude: | 90 °3 ’22.56 "W | | | |
| E13. Lat/Lon Coordinates are: | | ○ NAD−27 | ◉ NAD−83 | ○ N/A |
| E14. Site Elevation (AMSL): | | 126.19 meters | | |

| | |
|---|---|
| E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two−degree spacing policy. | ◉ Yes ○ No ○ N/A |
| E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non−geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements? | ○ Yes ○ No ◉ N/A |
| E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point. | ○ Yes ◉ No |

| | |
|---|---|
| E18. Is frequency coordination required? If YES, attach a frequency coordination report as | ○ Yes ◉ No |
| E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as | ○ Yes ◉ No |
| E20. FAA Notification − (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and or the FAA's study regarding the potential hazard of the structure to aviation?<br>FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION. | ○ Yes ◉ No |

POINTS OF COMMUNICATION

| | |
|---|---|
| Satellite Name:PERMITTED LIST \| \| | If you selected OTHER, please enter the following: |

| | |
|---|---|
| E21. Common Name: | E22. ITU Name: |
| E23. Orbit Location: | E24. Country: |

POINTS OF COMMUNICATION (Destination Points)

| | |
|---|---|
| E25. Site Identifier: | |
| E26. Common Name: | E27. Country: |

ANTENNA

| Site ID | E28. Antenna Id | E29. Quantity | E30. Manufacturer | E31. Model | E32. Antenna Size<meters> | E41/42. Antenna GainTransmint and/or Recieve (____dBi at _____GHz) |
|---|---|---|---|---|---|---|
| ST LOUIS1 | STLOUIS1 | 1 | DAWNCO | D37F48−4PC−5.5 | 3.7 | 42.3 dBi at 3.8 |

| E28. Antenna Id | E33/34. Diameter Minor/Major (meters) | E35. Above Ground Level<BR> (meters) | E36. Above Sea Level<BR> (meters) | E37. Building Height Above Ground Level<BR> (meters) | E38. Total Input Power at antenna flange<BR> (Watts) | E39. Maximum Antenna Height Above Rooftop<BR> (meters) | E40. Total EIRP for al carriers<BR> (dBW) |
|---|---|---|---|---|---|---|---|
| STLOUIS1 | 3.7/3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

FREQUENCY

| E28. Antenna Id | E43/44. Frequency Bands (MHz) | E45. T/R Mode | E46. Antenna Polarization(H,V, L,R) | E47. Emission Designator | E48. Maximum EIRP per Carrier (dBW) | E49. Maximum ERIP Density per Carrier (dBW/4kHz) |
|---|---|---|---|---|---|---|
| STLOUIS1 | 3700 4200 | R | Vertical | N/A | 0.0 | 0.0 |

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

AUDIO

FREQUENCY COORDINATION

| **E28. Antenna Id** | **E51. Satellite Orbit Type** | **E52/53. Frequency Limits(MHz)** | **E54/55. Range of Satellite Arc E/W Limit** | **E56. Earth Station Azimuth Angle Eastern Limit** | **E57. Antenna Elevation Angle Eastern Limit** | **E58. Earth Station Azimuth Angle Western Limit** | **E59. Antenna Elevation Angle Western Limit** | **E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)** |
|---|---|---|---|---|---|---|---|---|
| STLOUIS1 | Geostationary | 3700<br>4200 | 0.0/ 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REMOTE CONTROL POINT LOCATION

| E61. Call Sign<br><br>NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed. | | E65. Phone Number | |
|---|---|---|---|
| E62. Street Address | | | |
| E63. City | E67. County | E64/68. State/Country / | E66. Zip Code |

SATELLITE EARTH STATION AUTHORIZATIONS
FCC Form 312 − Schedule B:(Technical and Operational Description)
FOR OFFICIAL USE ONLY

Location of Earth Station Site

| | | | | |
|---|---|---|---|---|
| E1: Site Identifier: | ST LOUIS2 | E5. Call Sign: | | |
| E2: Contact Name | JOHN KENNEDY | E6. Phone Number: | 484−270−6320 | |
| E3. Street: | 7555 MACKENZIE ROAD | E7. City: | AFFTON | |
| | | E8. County: | ST LOUIS | |
| E4. State | MO | E9. Zip Code | 63123 | |
| E10. Area of Operation: | | ST LOUIS | | |
| E11. Latitude: | 38 °34 ’27.9 "N | | | |
| E12. Longitude: | 90 °19 ’31.9 "W | | | |
| E13. Lat/Lon Coordinates are: | | ○ NAD−27 | ◉ NAD−83 | ○ N/A |
| E14. Site Elevation (AMSL): | | 137.2 meters | | |

| | |
|---|---|
| E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two−degree spacing policy. | ◉ Yes ○ No ○ N/A |
| E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non−geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements? | ○ Yes ○ No ◉ N/A |
| E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point. | ○ Yes ◉ No |

| | |
|---|---|
| E18. Is frequency coordination required? If YES, attach a frequency coordination report as | ○ Yes ◉ No |
| E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as | ○ Yes ◉ No |
| E20. FAA Notification − (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and or the FAA's study regarding the potential hazard of the structure to aviation?<br>FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION. | ○ Yes ◉ No |

POINTS OF COMMUNICATION

| | |
|---|---|
| Satellite Name:PERMITTED LIST \| \| | If you selected OTHER, please enter the following: |

| | |
|---|---|
| E21. Common Name: | E22. ITU Name: |
| E23. Orbit Location: | E24. Country: |

POINTS OF COMMUNICATION (Destination Points)

| | |
|---|---|
| E25. Site Identifier: | |
| E26. Common Name: | E27. Country: |

ANTENNA

| Site ID | E28. Antenna Id | E29. Quantity | E30. Manufacturer | E31. Model | E32. Antenna Size<meters> | E41/42. Antenna GainTransmint and/or Recieve (____dBi at _____GHz) |
|---|---|---|---|---|---|---|
| ST LOUIS2 | STLOUIS2 | 1 | DAWNCO | D37F48−4PC−5.5 | 3.7 | 42.3 dBi at 3.8 |

| E28. Antenna Id | E33/34. Diameter Minor/Major (meters) | E35. Above Ground Level<BR> (meters) | E36. Above Sea Level<BR> (meters) | E37. Building Height Above Ground Level<BR> (meters) | E38. Total Input Power at antenna flange<BR> (Watts) | E39. Maximum Antenna Height Above Rooftop<BR> (meters) | E40. Total EIRP for al carriers<BR> (dBW) |
|---|---|---|---|---|---|---|---|
| STLOUIS2 | 3.7/3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

FREQUENCY

| E28. Antenna Id | E43/44. Frequency Bands (MHz) | E45. T/R Mode | E46. Antenna Polarization(H,V, L,R) | E47. Emission Designator | E48. Maximum EIRP per Carrier (dBW) | E49. Maximum ERIP Density per Carrier (dBW/4kHz) |
|---|---|---|---|---|---|---|
| STLOUIS2 | 3700 4200 | R | Vertical | N/A | 0.0 | 0.0 |

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

AUDIO

FREQUENCY COORDINATION

| **E28. Antenna Id** | **E51. Satellite Orbit Type** | **E52/53. Frequency Limits(MHz)** | **E54/55. Range of Satellite Arc E/W Limit** | **E56. Earth Station Azimuth Angle Eastern Limit** | **E57. Antenna Elevation Angle Eastern Limit** | **E58. Earth Station Azimuth Angle Western Limit** | **E59. Antenna Elevation Angle Western Limit** | **E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)** |
|---|---|---|---|---|---|---|---|---|
| STLOUIS2 | Geostationary | 3700<br>4200 | 0.0/ 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REMOTE CONTROL POINT LOCATION

| E61. Call Sign<br><br>NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed. | | E65. Phone Number | |
|---|---|---|---|
| E62. Street Address | | | |
| E63. City | E67. County | E64/68. State/Country / | E66. Zip Code |

SATELLITE EARTH STATION AUTHORIZATIONS
FCC Form 312 − Schedule B:(Technical and Operational Description)
FOR OFFICIAL USE ONLY

Location of Earth Station Site

| | | | | |
|---|---|---|---|---|
| E1: Site Identifier: | WICHITA | E5. Call Sign: | | |
| E2: Contact Name | JOHN KENNEDY | E6. Phone Number: | 484−270−6320 | |
| E3. Street: | 9111 EAST DOUGLAS AVE | E7. City: | WICHITA | |
| | | E8. County: | SEDGWICK | |
| E4. State | KS | E9. Zip Code | 67207 | |
| E10. Area of Operation: | | WICHITA | | |
| E11. Latitude: | 37 °41 ’1.8 "N | | | |
| E12. Longitude: | 97 °13 ’55.3 "W | | | |
| E13. Lat/Lon Coordinates are: | | ○ NAD−27 | ◉ NAD−83 | ○ N/A |
| E14. Site Elevation (AMSL): | | 423.0 meters | | |

| | |
|---|---|
| E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two−degree spacing policy. | ◉ Yes ○ No ○ N/A |
| E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non−geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements? | ○ Yes ○ No ◉ N/A |
| E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point. | ○ Yes ◉ No |

E18. Is frequency coordination required? If YES, attach a frequency coordination report as

○ Yes ◉ No

E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as

○ Yes ◉ No

E20. FAA Notification − (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and or the FAA's study regarding the potential hazard of the structure to aviation?

○ Yes ◉ No

FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.

POINTS OF COMMUNICATION

| Satellite Name:PERMITTED LIST \| \| If you selected OTHER, please enter the following: | |
|---|---|
| E21. Common Name: | E22. ITU Name: |

| E23. Orbit Location: | E24. Country: |
|---|---|

POINTS OF COMMUNICATION (Destination Points)

| E25. Site Identifier: | |
|---|---|
| E26. Common Name: | E27. Country: |

ANTENNA

| Site ID | E28. Antenna Id | E29. Quantity | E30. Manufacturer | E31. Model | E32. Antenna Size<meters> | E41/42. Antenna GainTransmint and/or Recieve (____dBi at _____GHz) |
|---|---|---|---|---|---|---|
| WICHITA | WICHITA | 1 | PRODELIN | 1383 | 3.8 | 42.0 dBi at 3.95 |

| E28. Antenna Id | E33/34. Diameter Minor/Major (meters) | E35. Above Ground Level<BR> (meters) | E36. Above Sea Level<BR> (meters) | E37. Building Height Above Ground Level<BR> (meters) | E38. Total Input Power at antenna flange<BR> (Watts) | E39. Maximum Antenna Height Above Rooftop<BR> (meters) | E40. Total EIRP for al carriers<BR> (dBW) |
|---|---|---|---|---|---|---|---|
| WICHITA | 3.8/3.8 | 5.0 | 423.0 | 5.0 | 0.0 | 4.0 | 0.0 |

FREQUENCY

| E28. Antenna Id | E43/44. Frequency Bands (MHz) | E45. T/R Mode | E46. Antenna Polarization(H,V, L,R) | E47. Emission Designator | E48. Maximum EIRP per Carrier (dBW) | E49. Maximum ERIP Density per Carrier (dBW/4kHz) |
|---|---|---|---|---|---|---|
| WICHITA | 3700 4200 | R | Vertical | N/A | 0.0 | 0.0 |

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

AUDIO

FREQUENCY COORDINATION

| **E28. Antenna Id** | **E51. Satellite Orbit Type** | **E52/53. Frequency Limits(MHz)** | **E54/55. Range of Satellite Arc E/W Limit** | **E56. Earth Station Azimuth Angle Eastern Limit** | **E57. Antenna Elevation Angle Eastern Limit** | **E58. Earth Station Azimuth Angle Western Limit** | **E59. Antenna Elevation Angle Western Limit** | **E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)** |
|---|---|---|---|---|---|---|---|---|
| WICHITA | Geostationary | 3700<br>4200 | 0.0/ 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REMOTE CONTROL POINT LOCATION

| E61. Call Sign<br><br>NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed. | | E65. Phone Number | |
|---|---|---|---|
| E62. Street Address | | | |
| E63. City | E67. County | E64/68. State/Country / | E66. Zip Code |

SATELLITE EARTH STATION AUTHORIZATIONS
FCC Form 312 − Schedule B:(Technical and Operational Description)
FOR OFFICIAL USE ONLY

Location of Earth Station Site

| | | | | |
|---|---|---|---|---|
| E1: Site Identifier: | WILKESBARRE | E5. Call Sign: | | |
| E2: Contact Name | JOHN KENNEDY | E6. Phone Number: | 484−270−6320 | |
| E3. Street: | 305 HIGHWAY 315 | E7. City: | PITTSTON | |
| | | E8. County: | LUZERNE | |
| E4. State | PA | E9. Zip Code | 18640 | |
| E10. Area of Operation: | | WILKES−BARRE | | |
| E11. Latitude: | 41 °19 ’6.0 "N | | | |
| E12. Longitude: | 75 °47 ’4.0 "W | | | |
| E13. Lat/Lon Coordinates are: | | ○ NAD−27 | ◉ NAD−83 | ○ N/A |
| E14. Site Elevation (AMSL): | | 11.3 meters | | |

| | |
|---|---|
| E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two−degree spacing policy. | ◉ Yes ○ No ○ N/A |
| E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non−geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements? | ○ Yes ○ No ◉ N/A |
| E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point. | ○ Yes ◉ No |

| | |
|---|---|
| E18. Is frequency coordination required? If YES, attach a frequency coordination report as | ○ Yes ◉ No |
| E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as | ○ Yes ◉ No |
| E20. FAA Notification − (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and or the FAA's study regarding the potential hazard of the structure to aviation?<br>FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION. | ○ Yes ◉ No |

POINTS OF COMMUNICATION

| | |
|---|---|
| Satellite Name:PERMITTED LIST \| \| | If you selected OTHER, please enter the following: |

| | |
|---|---|
| E21. Common Name: | E22. ITU Name: |
| E23. Orbit Location: | E24. Country: |

POINTS OF COMMUNICATION (Destination Points)

| | |
|---|---|
| E25. Site Identifier: | |
| E26. Common Name: | E27. Country: |

ANTENNA

| Site ID | E28. Antenna Id | E29. Quantity | E30. Manufacturer | E31. Model | E32. Antenna Size<meters> | E41/42. Antenna GainTransmint and/or Recieve (____dBi at _____GHz) |
|---|---|---|---|---|---|---|
| WILKESBARRE | WILKESBARR | 2 | SCIENTIFIC ATLANTA | 9000 | 3.0 | 41.5 dBi at 3.9125 |
| | | | | | | 41.5 dBi at 3.9125 |

| E28. Antenna Id | E33/34. Diameter Minor/Major (meters) | E35. Above Ground Level<BR> (meters) | E36. Above Sea Level<BR> (meters) | E37. Building Height Above Ground Level<BR> (meters) | E38. Total Input Power at antenna flange<BR> (Watts) | E39. Maximum Antenna Height Above Rooftop<BR> (meters) | E40. Total EIRP for al carriers<BR> (dBW) |
|---|---|---|---|---|---|---|---|
| WILKESBARR | 3.0/3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

FREQUENCY

| E28. Antenna Id | E43/44. Frequency Bands (MHz) | E45. T/R Mode | E46. Antenna Polarization(H,V, L,R) | E47. Emission Designator | E48. Maximum EIRP per Carrier (dBW) | E49. Maximum ERIP Density per Carrier (dBW/4kHz) |
|---|---|---|---|---|---|---|

| | | | | | | |
|---|---|---|---|---|---|---|
| WILKESBARR | 3700 4200 | R | Vertical | N/A | 0.0 | 0.0 |

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

AUDIO

| | | | | | | |
|---|---|---|---|---|---|---|
| WILKESBARR | 3700 4200 | R | Vertical | N/A | 0.0 | 0.0 |

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

AUDIO

FREQUENCY COORDINATION

| **E28. Antenna Id** | **E51. Satellite Orbit Type** | **E52/53. Frequency Limits(MHz)** | **E54/55. Range of Satellite Arc E/W Limit** | **E56. Earth Station Azimuth Angle Eastern Limit** | **E57. Antenna Elevation Angle Eastern Limit** | **E58. Earth Station Azimuth Angle Western Limit** | **E59. Antenna Elevation Angle Western Limit** | **E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)** |
|---|---|---|---|---|---|---|---|---|
| WILKESBARR | Geostationary | 3700<br>4200 | 0.0/ 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Geostationary | 3700<br>4200 | 0.0/ 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REMOTE CONTROL POINT LOCATION

| E61. Call Sign<br><br>NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed. | | | E65. Phone Number |
|---|---|---|---|
| E62. Street Address | | | |
| E63. City | E67. County | E64/68. State/Country / | E66. Zip Code |

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