

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:          | L3 Titan/Linkabit                      | E5: Call Sign:    |              |
| E2: Contact Name:             | MR. WILLIAM HARBISON                   | E6: Phone Number: | 858-597-9102 |
| E3: Street:                   | 3033 SCIENCE PARK ROAD Mobile-1, .36M. | E7: City:         | SAN DIEGO    |
| E4: State:                    | 0f2d5cd7dbbd22008e0b75131f961907       | E8: County:       | SAN DIEGO    |
|                               |                                        | E9: Zip Code:     | 92121        |
| E10: Area of Operation:       |                                        |                   |              |
| E11: Latitude:                | 0° 0' 0"                               |                   |              |
| E12: Longitude:               | 0° 0' 0"                               |                   |              |
| E13: Lat/Lon Coordinates are: | na                                     |                   |              |
| E14: Site Elevation (AMSL):   | 0                                      |                   |              |

|                                                                                                                                                                                                                                                                                                                                                                            |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 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 a technical analysis showing compliance with two-degree spacing policy. | No  |
| 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(a) and (b) as demonstrated by the manufacturer's qualification measurement?                     | No  |
| Is Frequency Coordination required?                                                                                                                                                                                                                                                                                                                                        | No  |
| Is coordination with another country required?                                                                                                                                                                                                                                                                                                                             | No  |
| Is FAA notification required?                                                                                                                                                                                                                                                                                                                                              | No  |
| Is facility operated by remote control?                                                                                                                                                                                                                                                                                                                                    | Yes |

## POINTS OF COMMUNICATION

|                                         |                      |
|-----------------------------------------|----------------------|
| Satellite Name: AMC 9 (S2434) (Retired) |                      |
| E21. Common Name: AMC 9 (S2434)         | E22. ITU Name: AMC 9 |
| E23. Orbit Location: 83 W.L.            | E24. Country:        |

|                                 |                      |
|---------------------------------|----------------------|
| Satellite Name: SES-1 (S2807)   |                      |
| E21. Common Name: SES-1 (S2807) | E22. ITU Name: SES-1 |
| E23. Orbit Location: 101 W.L.   | E24. Country:        |

|                                     |                          |
|-------------------------------------|--------------------------|
| Satellite Name: GALAXY 28 (S2160)   |                          |
| E21. Common Name: GALAXY 28 (S2160) | E22. ITU Name: GALAXY 28 |
| E23. Orbit Location: 89.0 W.L.      | E24. Country:            |

|                                     |                          |
|-------------------------------------|--------------------------|
| Satellite Name: GALAXY 16 (S2687)   |                          |
| E21. Common Name: GALAXY 16 (S2687) | E22. ITU Name: GALAXY 16 |
| E23. Orbit Location: 99 W.L.        | E24. Country:            |

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

|                                     |                           |
|-------------------------------------|---------------------------|
| Satellite Name: HORIZONS 2 (S2423)  |                           |
| E21. Common Name: HORIZONS 2(S2423) | E22. ITU Name: HORIZONS 2 |
| E23. Orbit Location: 73.8 W.L.      | E24. Country:             |

|                                           |                      |
|-------------------------------------------|----------------------|
| Satellite Name: AMC 1 (S2445) (Deorbited) |                      |
| E21. Common Name: AMC-1(S2445)            | E22. ITU Name: AMC 1 |
| E23. Orbit Location: 103 W.L.             | E24. Country:        |

|                              |                          |
|------------------------------|--------------------------|
| Satellite Name: GALAXY 26    |                          |
| E21. Common Name: GALAXY 26  | E22. ITU Name: GALAXY 26 |
| E23. Orbit Location: 93 W.L. | E24. Country:            |

|                                          |                       |
|------------------------------------------|-----------------------|
| Satellite Name: BSAT-1 (S2474) Deorbited |                       |
| E21. Common Name: ESTRELA DO SUL 1       | E22. ITU Name: BSAT-1 |
| E23. Orbit Location: 63 W.L.             | E24. Country:         |

|                                      |                                   |
|--------------------------------------|-----------------------------------|
| Satellite Name: HORIZONS 1 (S2475)   |                                   |
| E21. Common Name: HORIZONS 1 (S2475) | E22. ITU Name: HORIZONS 1 (S2475) |
| E23. Orbit Location: 127 WL          | E24. Country:                     |

|                                 |                      |
|---------------------------------|----------------------|
| Satellite Name: AMC 2 (Retired) |                      |
| E21. Common Name: AMC 2         | E22. ITU Name: AMC 2 |
| E23. Orbit Location: 105.0 W.L. | E24. Country:        |

|                                     |                          |
|-------------------------------------|--------------------------|
| Satellite Name: GALAXY 17 (S2715)   |                          |
| E21. Common Name: GALAXY 17 (S2715) | E22. ITU Name: GALAXY 17 |
| E23. Orbit Location: 85 W.L.        | E24. Country:            |

## ANTENNA

| Site ID           | E28. Antenna Id | E29. Quantity | E30. Manufacturer | E31. Model  | E32. Antenna Size (meters) | E41/42. Antenna Gain Transmit and/or Recieve (dBi at GHz) |
|-------------------|-----------------|---------------|-------------------|-------------|----------------------------|-----------------------------------------------------------|
| L3 Titan/Linkabit | Mobile-1        | 1             | L3 DATRON         | FSS-4180-LP | 0.36                       | undefined at 0                                            |

| E28. Antenna Id | E33/34. Diameter Minor/Major (meters) | E35. Above Ground Level (meters) | E36. Above Sea Level (meters) | E37. Building Height Above Ground | E38. Total Input Power at Antenna | E39. Maximum Antenna Height Above | E40. Total EIRP for all carriers |
|-----------------|---------------------------------------|----------------------------------|-------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|----------------------------------|
|-----------------|---------------------------------------|----------------------------------|-------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|----------------------------------|

|          |          |   |   | Level<br>(meters) | Flange<br>(Watts) | Rooftop<br>(meters) | (dBW) |
|----------|----------|---|---|-------------------|-------------------|---------------------|-------|
| Mobile-1 | 0.3/0.44 | 3 | 0 | 0                 | 20                | 0                   | 44.8  |

## FREQUENCY

| E28.<br>Antenna<br>Id        | E43/44.<br>Frequency<br>Bands<br>(MHz) | E45.<br>T/R<br>Mode | E46. Antenna<br>Polarization<br>(H,V,L,R) | E47.<br>Emission<br>Designator | E48.<br>Maximum<br>EIRP per<br>Carrier<br>(dBW) | E49. Maximum<br>ERIP Density<br>per Carrier<br>(dBW/4kHz) |
|------------------------------|----------------------------------------|---------------------|-------------------------------------------|--------------------------------|-------------------------------------------------|-----------------------------------------------------------|
| Mobile-1                     | 14000<br>14500                         | T                   | null                                      | 1M43G7D                        | 36.6                                            | 11.1                                                      |
| E50. Modulation and Services |                                        |                     |                                           |                                |                                                 |                                                           |
| Digital Data (type 3T)       |                                        |                     |                                           |                                |                                                 |                                                           |

| E28.<br>Antenna<br>Id        | E43/44.<br>Frequency<br>Bands<br>(MHz) | E45.<br>T/R<br>Mode | E46. Antenna<br>Polarization<br>(H,V,L,R) | E47.<br>Emission<br>Designator | E48.<br>Maximum<br>EIRP per<br>Carrier<br>(dBW) | E49. Maximum<br>ERIP Density<br>per Carrier<br>(dBW/4kHz) |
|------------------------------|----------------------------------------|---------------------|-------------------------------------------|--------------------------------|-------------------------------------------------|-----------------------------------------------------------|
| Mobile-1                     | 11700<br>12200                         | R                   | null                                      | 1M43G7D                        | 0                                               | 0                                                         |
| E50. Modulation and Services |                                        |                     |                                           |                                |                                                 |                                                           |
| Digital Data (type 3R)       |                                        |                     |                                           |                                |                                                 |                                                           |

## FREQUENCY COORDINATION

| E28.<br>Antenna<br>Id | E51.<br>Satellite<br>Orbit Type | E52/53.<br>Frequency<br>Limits(MHz) | E54/55.<br>Range<br>of<br>Satellite<br>Arc<br>E/W<br>Limit | E56. Earth<br>Station Azimuth<br>Angle<br>Eastern/Western<br>Limit | E57. Antenna<br>Elevation Angle<br>Eastern/Western<br>Limit | E60.<br>Maximum<br>EIRP<br>Density<br>toward the<br>Horizon<br>(dBW/4kHz) |
|-----------------------|---------------------------------|-------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------------|
| Mobile-1              | Geostationary                   | 14000<br>14500                      | 79 / 129                                                   | 124 / 250                                                          | 21 / 10                                                     | -20.8                                                                     |

Mobile-1Geostationary11700  
1220079 / 129124 / 25021 / 100

**REMOTE CONTROL POINT LOCATION**

|                                                                |                           |                                                 |                         |
|----------------------------------------------------------------|---------------------------|-------------------------------------------------|-------------------------|
| E61. Call Sign:<br>E000002                                     |                           | E65. Phone Number:<br>1-800-331-9401            |                         |
| E62. Street Address:<br>3033 SCIENCE PARK ROAD Mobile-1, .36M. |                           |                                                 |                         |
| E63. City:<br>SAN DIEGO                                        | E67. County:<br>SAN DIEGO | E64/68. State/Country:<br>undefined / undefined | E66. Zip Code:<br>92121 |

**Location of Earth Station Site**

|                               |                                         |                   |              |
|-------------------------------|-----------------------------------------|-------------------|--------------|
| E1: Site Identifier:          | L3 Linkabit                             | E5: Call Sign:    |              |
| E2: Contact Name:             | MR. WILLIAM HARBISON                    | E6: Phone Number: | 858-597-9102 |
| E3: Street:                   | 9890 TOWNE CENTRE DRIVE Mobile-2, .46M. | E7: City:         | SAN DIEGO    |
| E4: State:                    | 0f2d5cd7dbbd22008e0b75131f961907        | E8: County:       | SAN DIEGO    |
|                               |                                         | E9: Zip Code:     | 92121        |
| E10: Area of Operation:       |                                         |                   |              |
| E11: Latitude:                | 0° 0' 0"                                |                   |              |
| E12: Longitude:               | 0° 0' 0"                                |                   |              |
| E13: Lat/Lon Coordinates are: | na                                      |                   |              |
| E14: Site Elevation (AMSL):   | 0                                       |                   |              |

|                                                                                                                                                                                                                                                                                                                                                                            |    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 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 a technical analysis showing compliance with two-degree spacing policy. | No |
| 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                                                                                                        | No |

|                                                                                    |     |
|------------------------------------------------------------------------------------|-----|
| 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? |     |
| Is Frequency Coordination required?                                                | No  |
| Is coordination with another country required?                                     | No  |
| Is FAA notification required?                                                      | No  |
| Is facility operated by remote control?                                            | Yes |

## POINTS OF COMMUNICATION

|                                     |                          |
|-------------------------------------|--------------------------|
| Satellite Name: GALAXY 28 (S2160)   |                          |
| E21. Common Name: GALAXY 28 (S2160) | E22. ITU Name: GALAXY 28 |
| E23. Orbit Location: 89.0 W.L.      | E24. Country:            |

|                              |                          |
|------------------------------|--------------------------|
| Satellite Name: GALAXY 26    |                          |
| E21. Common Name: GALAXY 26  | E22. ITU Name: GALAXY 26 |
| E23. Orbit Location: 93 W.L. | E24. Country:            |

|                                 |                      |
|---------------------------------|----------------------|
| Satellite Name: SES-1 (S2807)   |                      |
| E21. Common Name: SES-1 (S2807) | E22. ITU Name: SES-1 |
| E23. Orbit Location: 101 W.L.   | E24. Country:        |

|                                      |                                   |
|--------------------------------------|-----------------------------------|
| Satellite Name: HORIZONS 1 (S2475)   |                                   |
| E21. Common Name: HORIZONS 1 (S2475) | E22. ITU Name: HORIZONS 1 (S2475) |
| E23. Orbit Location: 127 WL          | E24. Country:                     |

|                                  |                               |
|----------------------------------|-------------------------------|
| Satellite Name: PERMITTED LIST   |                               |
| E21. Common Name: PERMITTED LIST | E22. ITU Name: PERMITTED LIST |
| E23. Orbit Location: GSO         | E24. Country:                 |

## ANTENNA

| Site ID | E28. | E29. | E30. | E31. | E32. | E41/42. Antenna |
|---------|------|------|------|------|------|-----------------|
|---------|------|------|------|------|------|-----------------|

|             | Antenna Id | Quantity | Manufacturer | Model       | Antenna Size (meters) | Gain Transmit and/or Recieve (dBi at GHz) |
|-------------|------------|----------|--------------|-------------|-----------------------|-------------------------------------------|
| L3 Linkabit | Mobile-2   | 200      | L3 DATRON    | FSS-4180-LC | 0.46                  | undefined at 0                            |

| E28. Antenna Id | E33/34. Diameter Minor/Major (meters) | E35. Above Ground Level (meters) | E36. Above Sea Level (meters) | E37. Building Height Above Ground Level (meters) | E38. Total Input Power at Antenna Flange (Watts) | E39. Maximum Antenna Height Above Rooftop (meters) | E40. Total EIRP for all carriers (dBW) |
|-----------------|---------------------------------------|----------------------------------|-------------------------------|--------------------------------------------------|--------------------------------------------------|----------------------------------------------------|----------------------------------------|
| Mobile-2        | 0.46/0.46                             | 3                                | 0                             | 0                                                | 12.6                                             | 0                                                  | 44.5                                   |

## 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) |
|-----------------|-------------------------------|---------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------------------------------|
| Mobile-2        | 11700<br>12200                | R             | null                                | 45K0G7D                  | 0                                   | 0                                                |

### E50. Modulation and Services

Digital Data (type 1R)

| 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) |
|-----------------|-------------------------------|---------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------------------------------|
| Mobile-2        | 14000<br>14500                | T             | null                                | 717KG7D                  | 33.6                                | 11                                               |

### E50. Modulation and Services

Digital Data (type 2T)

## 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/Western Limit | E57. Antenna Elevation Angle Eastern/Western Limit | E60. Maximum EIRP Density toward the Horizon (dBW/4kHz) |
|-----------------|---------------------------|-------------------------------|------------------------------------------|--------------------------------------------------------|----------------------------------------------------|---------------------------------------------------------|
| Mobile-2        | Geostationary             | 11700<br>12200                | 79 / 129                                 | 124 / 250                                              | 21 / 10                                            | 0                                                       |

Mobile-2Geostationary14000  
1450079 / 129124 / 25021 / 10-20.8

#### REMOTE CONTROL POINT LOCATION

|                                                                     |                               |                                                     |                             |
|---------------------------------------------------------------------|-------------------------------|-----------------------------------------------------|-----------------------------|
| E61. Call Sign:<br><br>E000002                                      |                               | E65. Phone Number:<br><br>858-552-9587              |                             |
| E62. Street Address:<br><br>9890 TOWNE CENTRE DRIVE Mobile-2, .46M. |                               |                                                     |                             |
| E63. City:<br><br>SAN DIEGO                                         | E67. County:<br><br>SAN DIEGO | E64/68. State/Country:<br><br>undefined / undefined | E66. Zip Code:<br><br>92121 |

#### Location of Earth Station Site

|                               |                                         |                   |              |
|-------------------------------|-----------------------------------------|-------------------|--------------|
| E1: Site Identifier:          | L3HARRIS                                | E5: Call Sign:    |              |
| E2: Contact Name:             | MAROULA BRATAKOS                        | E6: Phone Number: | 858-552-9500 |
| E3: Street:                   | 9890 TOWNE CENTRE DRIVE Mobile-3, .46M. | E7: City:         | SAN DIEGO    |
| E4: State:                    | 0f2d5cd7dbbd22008e0b75131f961907        | E8: County:       | SAN DIEGO    |
|                               |                                         | E9: Zip Code:     | 92121        |
| E10: Area of Operation:       |                                         |                   |              |
| E11: Latitude:                | 0° 0' 0"                                |                   |              |
| E12: Longitude:               | 0° 0' 0"                                |                   |              |
| E13: Lat/Lon Coordinates are: |                                         |                   |              |

E14: Site Elevation  
(AMSL):

0

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 a technical analysis showing compliance with two-degree spacing policy.

N/A

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(a) and (b) as demonstrated by the manufacturer's qualification measurement?

N/A

Is Frequency Coordination required?

No

Is coordination with another country required?

No

Is FAA notification required?

No

Is facility operated by remote control?

Yes

## POINTS OF COMMUNICATION

Satellite Name: GALAXY 16 (S2687)

E21. Common Name: GALAXY 16 (S2687)

E22. ITU Name: GALAXY 16

E23. Orbit Location: 99 W.L.

E24. Country:

Satellite Name: AMC-6 (S2347) OLD

E21. Common Name: AMC-6 (S2347)

E22. ITU Name: AMC-6

E23. Orbit Location: 139.0 W.L.

E24. Country:

Satellite Name: GALAXY 19 (S2647)

E21. Common Name: GALAXY 19 (S2647)

E22. ITU Name: GALAXY 19

E23. Orbit Location: 97 W.L.

E24. Country:

Satellite Name: GALAXY 11

E21. Common Name: GALAXY 11

E22. ITU Name: GALAXY 11

|                                |               |
|--------------------------------|---------------|
| E23. Orbit Location: 93.1 W.L. | E24. Country: |
|--------------------------------|---------------|

|                                 |                      |
|---------------------------------|----------------------|
| Satellite Name: SES-1 (S2807)   |                      |
| E21. Common Name: SES-1 (S2807) | E22. ITU Name: SES-1 |
| E23. Orbit Location: 101 W.L.   | E24. Country:        |

|                                 |                      |
|---------------------------------|----------------------|
| Satellite Name: SES-2           |                      |
| E21. Common Name: SES-2 (S2826) | E22. ITU Name: SES-2 |
| E23. Orbit Location: 87 W.L.    | E24. Country:        |

|                                      |                                   |
|--------------------------------------|-----------------------------------|
| Satellite Name: INTELSAT 5 (S2704)   |                                   |
| E21. Common Name: INTELSAT 5 (S2704) | E22. ITU Name: INTELSAT 5 (S2704) |
| E23. Orbit Location: 156.9           | E24. Country:                     |

|                                     |                          |
|-------------------------------------|--------------------------|
| Satellite Name: GALAXY 17 (S2715)   |                          |
| E21. Common Name: GALAXY 17 (S2715) | E22. ITU Name: GALAXY 17 |
| E23. Orbit Location: 85 W.L.        | E24. Country:            |

|                                     |                             |
|-------------------------------------|-----------------------------|
| Satellite Name: GALAXY 3C (S2381)   |                             |
| E21. Common Name: GALAXY 3C (S2381) | E22. ITU Name: GALAXY III-C |
| E23. Orbit Location: 95.05 W.L.     | E24. Country:               |

|                                     |                            |
|-------------------------------------|----------------------------|
| Satellite Name: Intelsat 23 (S2831) |                            |
| E21. Common Name: INTELSAT 23       | E22. ITU Name: INTELSAT 23 |
| E23. Orbit Location: 53 W. L.       | E24. Country:              |

|                                     |                          |
|-------------------------------------|--------------------------|
| Satellite Name: GALAXY 18 (S2733)   |                          |
| E21. Common Name: GALAXY 18 (S2733) | E22. ITU Name: GALAXY 18 |
| E23. Orbit Location: 123 W.L.       | E24. Country:            |

|                                      |                                   |
|--------------------------------------|-----------------------------------|
| Satellite Name: HORIZONS 1 (S2475)   |                                   |
| E21. Common Name: HORIZONS 1 (S2475) | E22. ITU Name: HORIZONS 1 (S2475) |
| E23. Orbit Location: 127 WL          | E24. Country:                     |

|                                  |                       |
|----------------------------------|-----------------------|
| Satellite Name: AMC-15 (S2180)   |                       |
| E21. Common Name: AMC-15 (S2180) | E22. ITU Name: AMC-15 |
| E23. Orbit Location: 105.0 W.L.  | E24. Country:         |

|                                         |                      |
|-----------------------------------------|----------------------|
| Satellite Name: AMC-4 (S2135) (Expired) |                      |
| E21. Common Name: AMC-4 (S2135)         | E22. ITU Name: AMC-4 |
| E23. Orbit Location: 134.9 W.L.         | E24. Country:        |

|                                  |                       |
|----------------------------------|-----------------------|
| Satellite Name: SES-14 (S2974)   |                       |
| E21. Common Name: SES-14 (S2974) | E22. ITU Name: SES-14 |
| E23. Orbit Location: 47.5 W.L.   | E24. Country:         |

|                                     |                          |
|-------------------------------------|--------------------------|
| Satellite Name: GALAXY 28 (S2160)   |                          |
| E21. Common Name: GALAXY 28 (S2160) | E22. ITU Name: GALAXY 28 |
| E23. Orbit Location: 89.0 W.L.      | E24. Country:            |

|                                       |                              |
|---------------------------------------|------------------------------|
| Satellite Name: GIBSAT-129W-B (S2951) |                              |
| E21. Common Name: SES-15 (S2951)      | E22. ITU Name: GIBSAT-129W-B |
| E23. Orbit Location: 129.15 W.L       | E24. Country:                |

## ANTENNA

| Site ID  | E28. Antenna Id | E29. Quantity | E30. Manufacturer     | E31. Model  | E32. Antenna Size (meters) | E41/42. Antenna Gain Transmit and/or Recieve (dBi at GHz) |
|----------|-----------------|---------------|-----------------------|-------------|----------------------------|-----------------------------------------------------------|
| L3HARRIS | Mobile-3        | 200           | L3HARRIS TECHNOLOGIES | FSS-4180-IP | 0.46                       | undefined at 0                                            |

| E28.<br>Antenna<br>Id | E33/34.<br>Diameter<br>Minor/Major<br>(meters) | E35.<br>Above<br>Ground<br>Level<br>(meters) | E36.<br>Above<br>Sea<br>Level<br>(meters) | E37.<br>Building<br>Height<br>Above<br>Ground<br>Level<br>(meters) | E38.<br>Total<br>Input<br>Power at<br>Antenna<br>Flange<br>(Watts) | E39.<br>Maximum<br>Antenna<br>Height<br>Above<br>Rooftop<br>(meters) | E40.<br>Total<br>EIRP<br>for all<br>carriers<br>(dBW) |
|-----------------------|------------------------------------------------|----------------------------------------------|-------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------|
| Mobile-3              | 0/0                                            | 3                                            | 5000                                      | 0                                                                  | 12                                                                 | 0                                                                    | 44.5                                                  |

## FREQUENCY

| E28.<br>Antenna<br>Id               | E43/44.<br>Frequency<br>Bands<br>(MHz) | E45.<br>T/R<br>Mode | E46. Antenna<br>Polarization<br>(H,V,L,R) | E47.<br>Emission<br>Designator | E48.<br>Maximum<br>EIRP per<br>Carrier<br>(dBW) | E49. Maximum<br>ERIP Density<br>per Carrier<br>(dBW/4kHz) |
|-------------------------------------|----------------------------------------|---------------------|-------------------------------------------|--------------------------------|-------------------------------------------------|-----------------------------------------------------------|
| Mobile-3                            | 14000<br>14500                         | T                   | null                                      | 45K0G7D                        | 21.6                                            | 11                                                        |
| <b>E50. Modulation and Services</b> |                                        |                     |                                           |                                |                                                 |                                                           |
| Digital Data (type 1T)              |                                        |                     |                                           |                                |                                                 |                                                           |

| E28.<br>Antenna<br>Id               | E43/44.<br>Frequency<br>Bands<br>(MHz) | E45.<br>T/R<br>Mode | E46. Antenna<br>Polarization<br>(H,V,L,R) | E47.<br>Emission<br>Designator | E48.<br>Maximum<br>EIRP per<br>Carrier<br>(dBW) | E49. Maximum<br>ERIP Density<br>per Carrier<br>(dBW/4kHz) |
|-------------------------------------|----------------------------------------|---------------------|-------------------------------------------|--------------------------------|-------------------------------------------------|-----------------------------------------------------------|
| Mobile-3                            | 11700<br>12200                         | R                   | null                                      | 717KG7D                        | 0                                               | 0                                                         |
| <b>E50. Modulation and Services</b> |                                        |                     |                                           |                                |                                                 |                                                           |
| Digital Data (type 2R)              |                                        |                     |                                           |                                |                                                 |                                                           |

## FREQUENCY COORDINATION

| E28.<br>Antenna<br>Id | E51.<br>Satellite<br>Orbit Type | E52/53.<br>Frequency<br>Limits(MHz) | E54/55.<br>Range<br>of<br>Satellite<br>Arc<br>E/W<br>Limit | E56. Earth<br>Station Azimuth<br>Angle<br>Eastern/Western<br>Limit | E57. Antenna<br>Elevation Angle<br>Eastern/Western<br>Limit | E60.<br>Maximum<br>EIRP<br>Density<br>toward the<br>Horizon<br>(dBW/4kHz) |
|-----------------------|---------------------------------|-------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------------|
| Mobile-               | Geostationary                   | 14000                               | 47.5 /                                                     | 120 / 250                                                          | 10 / 10                                                     | -23.5                                                                     |

|   |  |       |     |  |  |  |
|---|--|-------|-----|--|--|--|
| 3 |  | 14500 | 139 |  |  |  |
|---|--|-------|-----|--|--|--|

Mobile-3Geostationary11700  
1220047.5 / 139120 / 25010 / 100

#### REMOTE CONTROL POINT LOCATION

|                                                                     |                               |                                                     |                             |
|---------------------------------------------------------------------|-------------------------------|-----------------------------------------------------|-----------------------------|
| E61. Call Sign:<br><br>E000002                                      |                               | E65. Phone Number:<br><br>858-552-9587              |                             |
| E62. Street Address:<br><br>9890 TOWNE CENTRE DRIVE Mobile-3, .46M. |                               |                                                     |                             |
| E63. City:<br><br>SAN DIEGO                                         | E67. County:<br><br>SAN DIEGO | E64/68. State/Country:<br><br>undefined / undefined | E66. Zip Code:<br><br>92121 |

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