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SSOG
REFERENCE: [EC:210219-074][GRP=CSE][LOC=261][REP=GOLRYA][2/19/2021 10:26:21 PM]
SUBJECT: Galaxy 16/261 Deg E., SSOG Lineup for Revision of IGEN [SVO=IGB-00869]
[IGC=IGS-14140]

All carrier activations/deactivations need to be coordinated through the Intelsat General Secure Operations Center (ISOC). All new antennas accessing the Intelsat system for the 1st time must perform on-axis isolation measurements in the designated frequencies on the transponder in use. Please contact the ISOC.

| Contact Information | |
|---------------------|---|
| ISOC | Tel: + 1-404-381-2727 Fax: + 1-404-381-2585 Email: isoc@intelsatgeneral.com |

| Service Summary | |
|----------------------|------------------------------------|
| SSOG Start Date | 2/19/2021 |
| Customer | IGEN |
| Service Order Number | IGB-00869 |
| SSOG Document | SSOG 600, Sect 3.1 |

This SSOG revises carriers on transponder 19K.

Participating earth stations:

| Code | Antenna Name |
|----------|---------------|
| BUH+03G1 | SITE 2 |
| CHA+37G1 | SITE 4 |
| CLD+0BE2 | CO-SP 3.7m |
| CLD+0FG1 | 1.2m-2 |
| CLD+0GG1 | 1.2m-3 |
| CLD+0HG1 | 1.2m-4 |
| CLD+0IG1 | 1.2m-5 |
| CLD+0JG1 | 1.2m-6 |
| CLD+20E1 | ANTENNA 1 HUB |
| CLD+23E1 | 2.4-3 |
| CLD+24G1 | 1.2M-1 |
| DAY+02G1 | SITE 5 |
| HOE+05G1 | SITE 1 |
| SDO+11G1 | SITE 3 |

For further information regarding this message contact:
email: staff-cse@intelsatgeneral.com

Best Regards,
Jose Lorenzana
Intelsat

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|-----------------------|-----------------------------------|
| Satellite | Galaxy 16/261 |
| Transponder | 19K/19K |
| Beam | NAKV/NAKH |
| Polarization | V/H |
| Translation Frequency | 2300 MHz |
| Lease Assignment | 14381.4/12081.4 - 14391.4/12091.4 |
| Lease Resource | 10 MHz |

The following carriers will be activated:

| Carrier ID SLR ID | Tx E/S code | Rx E/S code | TX Freq MHz | RX Freq MHz | Modulation | Info. Rate (kbps) | Symbol Rate (ksps) | Coding | Allocated BW (MHz) | PEB (MHz) | U/L EIRP (dBW) | D/L EIRP dBW (B.C.) |
|----------------------|----------------|----------------------|----------------|----------------|------------|----------------------|-----------------------|-----------------------------|-----------------------|--------------|----------------------|------------------------------|
| CXR:30287830 | CLD+0BE2 | CLD+0FG1 CLD+0GG1 | 14382.10000 | 12082.10000 | QPSK | 1670 | 1000 | DIGITAL*FEC=834/1000*RS=1/1 | 1.20000 | 1.34061 | 49.93 | 34.50 |
| CXR:30287840 | CLD+0FG1 | CLD+0BE2 | 14382.90000 | 12082.90000 | QPSK | 256 | 256 | DIGITAL*FEC=1/2*RS=1/1 | 0.35850 | 0.2384 | 42.17 | 27.00 |
| CXR:30287850 | CLD+0GG1 | CLD+0BE2 | 14383.30000 | 12083.30000 | QPSK | 256 | 256 | DIGITAL*FEC=1/2*RS=1/1 | 0.35850 | 0.27561 | 42.79 | 27.63 |
| CXR:30287860 | CLD+0BE2 | CLD+0HG1 | 14384.28000 | 12084.28000 | QPSK | 1670 | 1000 | DIGITAL*FEC=834/1000*RS=1/1 | 1.40000 | 1.34061 | 49.93 | 34.50 |
| CXR:30287870 | CLD+0HG1 | CLD+0BE2 | 14385.75000 | 12085.75000 | QPSK | 1670 | 1000 | DIGITAL*FEC=834/1000*RS=1/1 | 1.40000 | 1.34061 | 49.64 | 34.50 |
| CXR:30287880 | CLD+0BE2 | CLD+0IG1 CLD+0JG1 | 14387.15000 | 12087.15000 | QPSK | 1670 | 1000 | DIGITAL*FEC=834/1000*RS=1/1 | 1.20000 | 1.34061 | 49.93 | 34.50 |
| CXR:30287890 | CLD+0IG1 | CLD+0BE2 | 14388.00000 | 12088.00000 | QPSK | 256 | 256 | DIGITAL*FEC=1/2*RS=1/1 | 0.35850 | 0.2384 | 42.17 | 27.00 |
| CXR:30287900 | CLD+0JG1 | CLD+0BE2 | 14388.40000 | 12088.40000 | QPSK | 256 | 256 | DIGITAL*FEC=1/2*RS=1/1 | 0.35850 | 0.24963 | 42.37 | 27.20 |
| CXR:30287910 | CLD+24G1 | CLD+24G1 | 14389.45000 | 12089.45000 | QPSK | 256 | 256 | DIGITAL*FEC=1/2*RS=1/1 | 0.30750 | 0.42394 | 44.66 | 29.50 |
| CXR:30287920 | HOE+05G1 | CLD+24G1 | 14389.80000 | 12089.80000 | QPSK | 256 | 256 | DIGITAL*FEC=1/2*RS=1/1 | 0.30750 | 0.59883 | 45.07 | 31.00 |
| CXR:30287930 | BUH+03G1 | CLD+24G1 | 14390.15000 | 12090.15000 | QPSK | 256 | 256 | DIGITAL*FEC=1/2*RS=1/1 | 0.30750 | 0.38664 | 46.44 | 29.10 |
| CXR:30287940 | SDO+11G1 | CLD+24G1 | 14390.50000 | 12090.50000 | QPSK | 256 | 256 | DIGITAL*FEC=1/2*RS=1/1 | 0.30750 | 0.42394 | 45.60 | 29.50 |
| CXR:30287950 | CHA+37G1 | CLD+24G1 | 14390.85000 | 12090.85000 | QPSK | 256 | 256 | DIGITAL*FEC=1/2*RS=1/1 | 0.30750 | 0.42394 | 46.07 | 29.50 |
| CXR:30287960 | DAY+02G1 | CLD+24G1 | 14391.20000 | 12091.20000 | QPSK | 256 | 256 | DIGITAL*FEC=1/2*RS=1/1 | 0.30750 | 0.42394 | 44.51 | 29.50 |

The following carriers will be discontinued:

| Carrier ID SLR ID | Tx E/S code | Rx E/S code | TX Freq MHz | RX Freq MHz | Modulation | Info. Rate (kbps) | Symbol Rate (ksps) | Coding | Allocated BW (MHz) | PEB (MHz) | U/L EIRP (dBW) | D/L EIRP dBW (B.C.) |
|----------------------|----------------|----------------------|----------------|----------------|------------|----------------------|-----------------------|-----------------------------|-----------------------|--------------|----------------------|------------------------------|
| CXR:22441187 | CLD+0BE2 | CHA+37G1 SDO+11G1 | 14382.30000 | 12082.30000 | QPSK | 2004 | 1200 | DIGITAL*FEC=834/1000*RS=1/1 | 1.44000 | 2.12189 | 51.55 | 36.49 |
| CXR:22441190 | CHA+37G1 | CLD+23E1 CLD+0BE2 | 14383.30000 | 12083.30000 | QPSK | 256 | 256 | DIGITAL*FEC=1/2*RS=1/1 | 0.34600 | 0.27442 | 43.83 | 27.61 |

| Carrier ID SLR ID | Tx E/S code | Rx E/S code | TX Freq MHz | RX Freq MHz | Modulation | Info. Rate (kbps) | Symbol Rate (ksps) | Coding | Allocated BW (MHz) | PEB (MHz) | U/L EIRP (dBW) | D/L EIRP dBW (B.C.) |
|----------------------|----------------|----------------------|----------------|----------------|------------|----------------------|-----------------------|------------------------|-----------------------|--------------|----------------------|------------------------------|
| CXR:22441193 | HOE+05G1 | CLD+23E1 CLD+0BE2 | 14383.70000 | 12083.70000 | QPSK | 256 | 256 | DIGITAL*FEC=1/2*RS=1/1 | 0.34600 | 0.36083 | 42.52 | 28.80 |
| CXR:22441196 | CLD+24G1 | CLD+20E1 CLD+23E1 | 14384.10000 | 12084.10000 | QPSK | 256 | 256 | DIGITAL*FEC=1/2*RS=1/1 | 0.34600 | 0.2384 | 42.11 | 27.00 |
| CXR:22441199 | HOE+05G1 | CLD+20E1 CLD+23E1 | 14384.50000 | 12084.50000 | QPSK | 256 | 256 | DIGITAL*FEC=1/2*RS=1/1 | 0.34600 | 0.36923 | 42.62 | 28.90 |
| CXR:22441202 | BUH+03G1 | CLD+20E1 CLD+23E1 | 14384.90000 | 12084.90000 | QPSK | 256 | 256 | DIGITAL*FEC=1/2*RS=1/1 | 0.34600 | 0.2384 | 43.99 | 27.00 |
| CXR:22441205 | SDO+11G1 | CLD+20E1 CLD+23E1 | 14385.30000 | 12085.30000 | QPSK | 256 | 256 | DIGITAL*FEC=1/2*RS=1/1 | 0.34600 | 0.23297 | 42.64 | 26.90 |
| CXR:22441208 | CHA+37G1 | CLD+20E1 CLD+23E1 | 14385.70000 | 12085.70000 | QPSK | 256 | 256 | DIGITAL*FEC=1/2*RS=1/1 | 0.34600 | 0.27372 | 43.82 | 27.60 |
| CXR:22441211 | DAY+02G1 | CLD+20E1 CLD+23E1 | 14386.10000 | 12086.10000 | QPSK | 256 | 256 | DIGITAL*FEC=1/2*RS=1/1 | 0.34600 | 0.24395 | 41.75 | 27.10 |

SLR ID is an internal Intelsat reference to identify the services operating from an Intelsat teleport. For services operating from a non-Intelsat teleport, the SLR ID reference will be blank.