



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION

Unofficial Copy

Name PRODUCTION & SATELLITE SERVICES, INC.

Callsign: E040041

(d/b/a)

File Number: SES-LIC-20040120-00064

Authorization License

Non Common Carrier **Grant Date:** 06/22/2004 **Expiration Date:** 06/22/2019

Nature Of Service: International Fixed Satellite Service

Class Of Station: Temporary Fixed Earth Station

A) Site Location(s)

#	Site ID	Address	Latitud	Longitude	Elevation (Meters)	NAD	Special Provisions (Refer to Section H)
1)	C 21 C Band #1	4425 Aldebaran AveSte #1 Las Vegas, Clark, NV 89103	°:"	°:"		NA	

Subject to the provisions of the Communications Act of 1934, The Communications Satellite Act of 1962, subsequent acts and treaties, and all present and future regulations made by this Commission, and further subject to the conditions and requirements set forth in this license, the grantee is authorized to construct, use and operate the radio facilities described below for radio communications for the term beginning Tuesday, June 22, 2004 (3 AM Eastern Standard Time) and ending Saturday, June 22, 2019 (3 AM Eastern Standard Time). The required date of completion of construction and commencement of operation is Wednesday, June 22, 2005 (3 AM Eastern Standard Time). Grantee must file with the Commission a certification upon completion of construction and commencement of operation.

B) Particulars of Operations

The General Provision 1010 applies to all receiving frequency bands.

The General Provision 1900 applies to all transmitting frequency bands.

For the text of these provisions, refer to Section H.

#	Frequency	Polarization	Emission	Tx/Rx Mode	Max EIRP /Carrier	Max EIRP Density	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
1)	5925.0000 - 6425.0000	H,V	36M0G7F	T	65.00	25.40	C 21 C		Compressed Digital Video, 45 Mbps, 3/4
2)	5925.0000 - 6425.0000	H,V	4M00G7F	T	61.50	31.50	C 21 C		Compressed Digital Video, 5000Kbps, 3/4 FEC
3)	5925.0000 - 6425.0000	H,V	36M0F3F	T	65.00	38.00	C 21 C		Standard Video W/Associated Audio

C) Frequency Coordination

#	Frequency Limits (MHz)	Satellite Arc (Deg. Long.)		Elevation (Degrees)		Azimuth (Degrees)		Max EIRP Density toward Horizon (dBW/4kHz)	Associated Antenna(s)
		East Limit	West Limit	East Limit	West Limit	East Limit	West Limit		



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1) 5925.0000 - 6425.0000 43.0W - 191.0W 05.0 - 05.0 13.5 C 21 C ban

D) Point of Communications

The following stations located in the Satellite orbits consistent with Sections B and C of this License:

1) C 21 C Band to All authorized U.S. Domestic (ALSAT) Satellites.

E) Antenna Facilities

Site/Elevation:

Site ID	Antenna ID	Units	Diameter (meters)	Manufacture	Model number	Max Antenna Height (Meters)	Special Provisions (Refer to Section H)
C 21 C Band	C 21 C	1	2.4	AVL Technologies	2400	0 AGL/ 0 AMSL	

Max Gains(s): 41.5 dBi @ 6.0000 GHz

Maximum total input power at antenna flange (Watts) = 223.00

Maximum aggregate output EIRP for all carriers (dBW) 65.00

H) Special and General Provisions

A) This RADIO STATION AUTHORIZATION is granted subject to the following special

- 1010 Applicable to all receiving frequency bands. Emission designator indicates the maximum bandwidth of received signal at associated station(s). Maximum EIRP and maximum EIRP density are not applicable to receive operations.
- 1900 Applicable to all transmitting frequency bands. Authority is granted to transmit any number of RF carriers with the specified parameters on any discrete frequencies within associated band in accordance with the other terms and conditions of this authorization, subject to any additional limitations that may be required to avoid unacceptable levels of inter-satellite interference.
- 2087 The use of these small diameter facilities is authorized pursuant to the Commission's Declaratory Order in Routine Licensing of earth stations in the 6 GHz and 14 GHz bands using antennas less than 9 meters and 5 meters in diameter, respectively, for both full transponder and narrowband transmissions (DA 87-391) released April 13, 1987.
- 2088 The EIRP and EIRP Density numbers are the maximum permissible under the Commission's Declaratory Order (DA87-391) noted in General Provision 2087.
- 2916 Transmitter(s) must be turned off during antenna maintenance to ensure compliance with the FCC-specified safety guidelines for human exposure to radiofrequency radiation in the region between the antenna feed and the reflector. Appropriate measures must also be taken to restrict access to other regions in which the earth station's power flux density levels exceed the specified guidelines.



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H) Special and General Provisions

- 2938 Upon completion of construction, each licensee must file with the Commission a certification including the following information: name of the licensee, file number of the application, call sign of the antenna, date of the license and certification that the facility as authorized has been completed, that each antenna facility has been tested and is within 2 dB of the pattern specified in Section 25.209 and that the station is operational including the date of commencement of service and will remain operational during the license period unless the license is submitted for cancellation.
- 3431 To the extent that the 2.4-meter C-band antenna authorized herein appears not be fully compliant with Section 25.209 of FCC Rules and Regulations, the FCC may, if so warranted, cause the immediate termination of the use of such antenna, without a hearing.
- 3432 The power density into the flange of the subject 2.4-meter C-band antenna shall not exceed a minus 9.7
- 5208 The licensee shall take extraordinary measures to ensure that the antenna does not create a potential for harmful non-ionizing radiation to persons who may be within the immediate vicinity since this earth station exceeds the radiation hazard level of 5 mW/cm². This shall include but not be limited to roping off an area or establishing a physical barrier within a radius of at least 20 feet surrounding the antenna or the trailer on which it is mounted. During actual transmitting, warning signs shall be posted informing all persons to keep outside of the roped off area. The bottom of the satellite dish shall not be less than 6 feet above ground level.
- 5216 All operations shall be on a non-common carrier basis.



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H) Special and General Provisions

B) This RADIO STATION AUTHORIZATION is granted subject to the

This authorization is issued on the grantee's representation that the statements contained in the application are true and that the undertakings described will be carried out in good faith.

This authorization shall not be construed in any manner as a finding by the Commission on the question of marking or lighting of the antenna system should future conditions require. The grantee expressly agrees to install such marking or lighting as the Commission may require under the provisions of Section 303(q) of the Communications Act. 47 U.S.C. § 303(q).

Neither this authorization nor the right granted by this authorization shall be assigned or otherwise transferred to any person, firm, company or corporation without the written consent of the Commission. This authorization is subject to the right of use or control by the government of the United States conferred by Section 706 of the Communications Act. 47 U.S.C. § 706. Operation of this station is governed by Part 25 of the Commission's Rules. 47 C.F.R. Part 25.

This authorization shall not vest in the licensee any right to operate this station nor any right in the use of the designated frequencies beyond the term of this license, nor in any other manner than authorized herein.

This authorization is issued on the grantee's representation that the station is in compliance with environmental requirements set forth in Section 1.1307 of the Commission's Rules. 47 C.F.R. § 1.1307.

This authorization is issued on the grantee's representation that the station is in compliance with the Federal Aviation Administration (FAA) requirements as set forth in Section 17.4 of the Commission's Rules. 47 C.F.R. § 17.4.

The following condition applies when this authorization permits construction of or modifies the construction permit of a radio station.

This authorization shall be automatically forfeited if the station is not ready for operation by the required date of completion of construction unless an application for modification of construction permit for additional time to complete construction is filed by that date, together with a showing that failure to complete construction by the required date was due to factors not under control of the grantee.

Licensees are required to pay annual regulatory fees related to this authorization. The requirement to collect annual regulatory fees from regulates is contained in Public Law 103-66, "The Omnibus Budget Reconciliation Act of 1993". These regulatory fees, which are likely to change each fiscal year, are used to offset costs associated with the Commission's enforcement, public service, international and policy and rulemaking activities. The Commission issues a Report and Order each year, setting the new regulatory fee rates. Receive only earth stations are exempt from payment of regulatory fees.