



**UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION**

Name: **SATELLITE COMMUNICATIONS SYSTEMS**
 Authorization Type: License
 Non Common Carrier

Call Sign: **E880685**
 File Number: **SES-LIC-19980810-01052**
 Grant Date: **08/06/1999** Expiration Date: **08/06/2009**

Nature of Service: Domestic Fixed Satellite Service
 Nature of Service: International Fixed Satellite Service
 Class of Station: Temporary Fixed Earth Station

A) Site Location(s)

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	Special Provisions NAD (Refer to Section H)
1		VARIOUS.			0	

Licensee certifies antenna(s) comply with gain patterns specified in section 25.109

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 August 6, 1999 (3 AM Eastern Standard Time) and ending August 6, 2009 (3 AM Eastern Standard Time). The required date of completion of construction and commencement of operation is August 6, 2000 (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 (MHz)	Polarization	Emission	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
1	14000.0000-14500.0000	H.V	3GMD3F	76.00	49.00	1	1900	COMPOSITE VIDEO CARRIER W/ AUDIO SUBCARRIERS

C) Frequency Coordination Limits

#	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		
1	14000.0000-14500.0000	31.0W	140.0W						1



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D) Points of Communications

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

- 1) 1 to All authorized U.S. Domestic (ALSAT) Satellites.
- 2) 1 to PANAMSAT 1 (PAS-1 @ 45.0 W.L.) satellite(s) of the PANAMSAT system.
- 3) 1 to PANAMSAT-2R (PAS-2R @ 43.0 W.L.) satellite(s) of the PANAMSAT system.
- 4) 1 to PANAMSAT 4 (PAS-4 @ 191.0 W.L.) satellite(s) of the PANAMSAT system.
- 5) 1 to New Skies Satellite, N.V. 513 @ 183.0 E.L. (Netherlands-licensed)
- 6) 1 to New Skies Satellite, N.V. 703 @ 57.0 E.L. (Netherlands-licensed)
- 7) 1 to INTELSAT AOR @ 304.5 E.L.
- 8) 1 to INTELSAT AOR @ 307.0 E.L.
- 9) 1 to INTELSAT AOR @ 310.0 E.L.
- 10) 1 to INTELSAT AOR @ 325.5 E.L.
- 11) 1 to INTELSAT AOR @ 328.5 E.L.
- 12) 1 to INTELSAT AOR @ 330.5 E.L.
- 13) 1 to INTELSAT AOR @ 335.5 E.L.
- 14) 1 to TELESTAR 11 (used to be ORION F1) @ 37.5 W.L.
- 15) 1 to New Skies Satellite, N.V. 806 @ 319.5 E.L. (Netherlands-licensed)
- 16) 1 to New Skies Satellite, N.V. 803 @ 338.5 E.L. (Netherlands-licensed)
- 17) 1 to New Skies Satellite, N.V. K @ 338.5 E.L. (Netherlands-licensed)
- 18) 1 to INTELSAT AOR @ 332.5 E.L.

E) Antenna Facilities

Site/Elevation: 0 (Meters) AMSL

Site ID	Antenna ID	Units	Diameter (meters)	Manufacturer	Model number	Max Antenna Height (Meters)	Special Provision (Refer to Section)
1	1	1	2.4	PRIM SATCOM TECHNOLOGY	240 KV		
Max Gains(s): 49.0 dBi @ 14.0000 GHz							
Maximum total input power at antenna flange (Watts) =					500.00		
Maximum aggregate output EIRP for all carriers (dBW) =					76.00		

F) Remote Control Point:

Call Sign:

G) Antenna Structure marking and lighting requirements:

None unless otherwise specified under Special and General Provisions