



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION
Current Authorization : FCC WEB Reproduction
 Unofficial Copy

Name: COMCAST OF COLORADO/PENNSYLVANIA/WEST VIRGINIA, LLC **Call Sign:** WS91
File Number: SES-RWL-20030403-00425
0013-4316-89

Authorization Type: Renewal of License
Non Common Carrier **Grant Date:** 04/09/2003 **Expiration Date:** 04/15/2018

Nature of Service: Domestic Fixed Satellite Service

Class of Station: Fixed Earth Stations

A) Site Location(s)

| # Site ID | Address | Latitude | Longitude | Elevation (Meters) | NAD | Special Provisions (Refer to Section H) |
|-----------|------------------------|-----------------|----------------|--------------------|-----|---|
| 1) 1 | GALLITZIN, CAMBRIA, PA | 40° 29' 20.0" N | 78° 33' 5.0" W | 725.4 | 83 | |

Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209

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, April 15, 2003 (3 AM Eastern Standard Time) and ending Sunday, April 15, 2018 (3 AM Eastern Standard Time). The required date of completion of construction and commencement of operation is 00/00/0000 (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) 3700.0000 - 4200.0000 | H,V | 3600F9 | R | | | I | | |

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 | West | Limit | Limit | Limit | Limit | | |
| 1) | 3700.0000 - 4200.0000 | 70.0W | 140.0W | 42.4 | 12.8 | 169.0 | 250.5 | 0.0 | I |

D) Point of Communications

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

- 1) I to Permitted Space Station List

E) Antenna Facilities

| Site ID | Antenna ID | Units | Diameter (Meters) | Manufacturer | Model Number | Site Elevation | Max Antenna Height (Meters) | Special Provisions (Refer to Section H) |
|---------|------------|-------|-------------------|--------------------------|--------------|----------------|-----------------------------|---|
| I | I | I | 5.0 | ANTENNA FOR COMMUNICATIO | PR-16.4 | 725.4 | 5.2 AGL/ 730.6 AMSL | |

Max Gains(s):44.0 dBi @ 4.0000 GHz



Comcast Cable
One Comcast Center
1701 John F Kennedy Boulevard
Philadelphia, PA 19103-2838

April 12, 2018

Received-FCC

APR 13 2018

Bureau / Office

Federal Communications Commission
International Bureau --- Earth Stations
445 12th Street, SW
Washington, DC 20554

Attention: International Bureau
Satellite & Radio Communication Division
Satellite Engineering Branch

E5699 -- Comcast Cable Communications Management, LLC
E5830 -- Comcast Cable Communications Management, LLC
E5831 -- Comcast Cable Communications Management, LLC
E5456 -- Comcast of Philadelphia II, LLC
WS91 -- Comcast of Colorado/Pennsylvania/West Virginia, LLC
E3284 -- Comcast of CA/MD/PA/VA/West Virginia, LLC
E5580 -- Comcast of Pennsylvania I, LLC
E5621 -- Comcast of Illinois/Ohio/Oregon, LLC
WU56 -- Comcast of CO/FL/MI/NM/PA/Washington, LLC

Ladies and Gentlemen:

The above referenced Earth Stations are no longer in operation. Comcast Cable Communications Management, LLC, via this letter surrenders all rights to these stations.

If you have any questions concerning the above, please contact me directly.

Sincerely

Sheila Smith
Director, Operations Compliance
(215) 286-7454

Enclosures

cc: Amanda Johnson, Comsearch
Don Lindauer
Chanelle Perry