



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

Name: WRANGELL RADIO GROUP  
 Authorization Type: Registration  
 Non Common Carrier

Call Sign: E160080  
 File Number: SES-REG-20160512-00413  
 Grant date: 06/22/2016 Expiration Date: 05/12/2031



Nature of Service: Fixed Satellite Service  
 Class of Station: Fixed Earth Stations

**A) Site Location(s)**

| #  | Site ID | Address   | Latitude     | Longitude     | Elevation (Meters) | Special Provisions NAD (Refer to Section H) |
|----|---------|---|--------------|---------------|--------------------|---|
| 1) | 1       | 202 St. Michaels Street<br>Wrangell, Wrangell, AK 99929 | 56°28'17.7"N | 132°22'46.8"W | 22.3               | 83  |

Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.

*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 registrant is registered to operate the radio facilities described below for radio communications for the term beginning May 12, 2016 (3 AM Eastern Standard Time) and ending May 12, 2031 (3 AM Eastern Standard Time). The required date of commencement of operation is November 12, 2016 (3 AM Eastern Standard Time). Registrant must file with the Commission a certification upon 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 Code | Emission | Tx/Rx Mode | Max EIRP /Carrier (dBW) | Max EIRP Density /Carrier (dBW/4kHz) | Associated Antenna | Special Provisions (Refer to Section H) | Modulation/ Services  |
|----|---------------------|-------------------|----------|------------|-------------------------|--------------------------------------|--------------------|---|-----------------------|
| 1) | 3700.0000-4200.0000 | H,V               | 10M3G7W  | Rx         |                         |                                      | 3.8M.              |   | Digital Audio Carrier |
| 2) | 3700.0000-4200.0000 | H,V               | 30K0F1D  | Rx         |                         |                                      | 3.8M.              |   | Digital Audio Carrier |

**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) | 3700.0000-4200.0000    | 68.0W                      | 143.0W     | 05.2                | 25.0       | 111.8             | 192.7      | 3.8M.                                      |                       |



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**D) Points of Communications**

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

1) 1 to Permitted Space Station List

**E) Antenna Facilities**

| Site ID  | Antenna ID | Units      | Diameter (meters) | Manufacturer | Model number | Site Elevation (Meters) | Max Antenna Height (Meters) | Special Provisions (Refer to Section H) |
|--|------------|------------|-------------------|--------------|--------------|-------------------------|-----------------------------|---|
| 1  | 3.8M.      | 1          | 3.8               | Prodelin     | 1383         | 22.3                    | 3.8 AGL/ 26.1 AMSL          |   |
| Max Gains(s):  |            | 41.2 dBi @ |                   | 4.0000 GHz   |              |                         |                             |   |
| Maximum total input power at antenna flange (Watts) =  |            |            |                   |              |              |                         |                             |   |
| Maximum aggregate output EIRP for all carriers (dBW) = |            |            |                   |              |              |                         |                             |   |

**G) Antenna Structure marking and lighting requirements:**

None unless otherwise specified under Special and General Provisions

**H) Special and General Provisions**

A) This RADIO STATION AUTHORIZATION is granted subject to the following special provisions and general conditions:

- 2200 --- These facilities shall be used for the reception of only such programming material that the grantee has been authorized to receive and use by the owner of the programming material.
- 2456 --- No protection beyond that afforded in "Deregulation of Domestic Receive-Only Satellite Earth Stations" will be provided for TVRO earth stations. Due to 2 degree orbital spacing, "the potential levels of interference caused by satellite transmissions are already defined and the actual level of any protection desired by an applicant from intersatellite interference for small receiving earth station antennas will be achieved by the choice of receiving antenna performance selected by parties installing new receive-only earth stations." FCC 86-133 36552.
- 2464 --- The grantee is authorized to add, delete or change channels of program material without further application or notification to the Commission, provided: (a) The carriage of such program material is an authorized pursuant to the Commission's rules, regulations and policies governing the terrestrial system (s) used to distribute this material to the end subscribers, and (b) that such earth station operations are consistent with the technical parameters specified in the registration.
- 2465 --- This provision relates to potential interference from terrestrial microwave stations. Operation of the receive-only earth station shall be in accordance with the frequency coordination exhibit accompanying the application.
- 5216 --- All operations shall be on a non-common carrier basis.





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B) This RADIO STATION AUTHORIZATION is granted subject to the additional conditions specified below:

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 authorization to request 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.

Licenses are required to pay annual regulatory fees related to this authorization. The requirement to collect annual regulatory fees from regulatees 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.

