

13

SES-STA-20130226-00211 IB2013000468  
The Production Crew and Co.

Approved by OMB  
3060-0678

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:  
STA Request - Ponce

I. Applicant

<b>Name:</b>	The Production Crew and Co.	<b>Phone Number:</b>	787-667-2214
<b>DBA Name:</b>		<b>Fax Number:</b>	787-977-7762
<b>Street:</b>	#169 DEL PARQUE ST	<b>E-Mail:</b>	FEDERICO.GOMEZ. HERNANDEZ@GMAIL.COM
	SUITE 201		
<b>City:</b>	SAN JUAN	<b>State:</b>	PR
<b>Country:</b>	USA	<b>Zipcode:</b>	00911 -1967
<b>Attention:</b>	Mr FEDERICO E GOMEZ		



File # SES-STA-20130226-00211  
 Call Sign \_\_\_\_\_ Grant Date 3-14-13  
 (or other identifier)  
 Term Dates  
 From 3-14-13 To: 4-13-13  
 Approved: Paul E. [Signature]

Applicant: The Production Crew and Co.  
File No.: SES-STA-20130226-00211  
Special Temporary Authority (STA)

The Production Crew and Co. is granted STA for 30 days to operate a Transmit-Only Temporary-Fixed earth station using the conventional C-band frequencies 5925-6425 MHz in Pachin Vicens Arena, Ponce, Puerto Rico to access ALSAT-designated authority using a 2.4 meter Prodelin model 2.4M antenna with the following conditions:

1. The Production Crew and Co. shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station and it shall cease transmission(s) immediately upon notice of such interference.
2. In the event that there is a report of interference, The Production Crew and Co. must immediately terminate transmissions and notify the FCC in writing.
3. Any action taken or expense incurred as a result of operations pursuant to this special temporary authority is solely at The Production Crew and Co.'s risk.
4. The Production Crew and Co. shall take all reasonable and customary measures to ensure that the earth station does not create a potential for harmful non-ionizing radiation to persons who may be in the vicinity of the earth station when it is in operation. The earth station operator shall be responsible for assuring that individuals do not stray into the regions around the earth station where there is a potential for exceeding the maximum permissible exposure limits.
5. This action is issued pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. § 0.261, and is effective immediately.


File # SES-STA-20130226-00211

Call Sign \_\_\_\_\_ Grant Date 3-14-13  
(or other identifier)

From 3-14-13 Term Dates 3-14-13 to 4-13-13

Approved: [Signature]

**GRANTED**  
International Bureau



**2. Contact**

<b>Name:</b>	Mr FEDERICO E GOMEZ	<b>Phone Number:</b>	787-667-2214
<b>Company:</b>	The Production Crew and Co.	<b>Fax Number:</b>	787-977-7762
<b>Street:</b>	#169 DEL PARQUE ST Suite 201	<b>E-Mail:</b>	FEDERICO.GOMEZ. HERNANDEZ@GMAIL.COM
<b>City:</b>	San Juan	<b>State:</b>	PR
<b>Country:</b>	USA	<b>Zipcode:</b>	00911 -1967
<b>Attention:</b>	Mr FEDERICO E GOMEZ	<b>Relationship:</b>	Other

(If your application is related to an application filed with the Commission, enter either the file number or the IB Submission ID of the related application. Please enter only one.)

3. Reference File Number or Submission ID

4a. Is a fee submitted with this application?

- If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114).
- Governmental Entity     Noncommercial educational licensee
- Other (please explain):

4b. Fee Classification    CGX – Fixed Satellite Transmit/Receive Earth Station

5. Type Request

- Use Prior to Grant                       Change Station Location                       Other

6. Requested Use Prior Date

02/28/2013

7. CityPonce	8. Latitude (dd mm ss.s h) 17 59 17.0 N
9. State PR	10. Longitude (dd mm ss.s h) 66 37 11.0 W
11. Please supply any need attachments. Attachment 1: Fixed App                      Attachment 2: PCN                      Attachment 3: RadHaz	
12. Description. (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.) <div style="border: 1px solid black; padding: 5px; margin: 10px 0;">Temporary Earth Station Services - Ponce, PR, additional events possible.</div>	
13. By checking Yes, the undersigned certifies that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes. <input checked="" type="radio"/> Yes <input type="radio"/> No	
14. Name of Person Signing Mr FEDERICO E GOMEZ	15. Title of Person Signing Partner
WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT (U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).	

**FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT**

The public reporting for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the required data, and completing and reviewing the collection of information. If you have any comments on this burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal Communications Commission, AMD-PERM, Paperwork Reduction Project (3060-0678), Washington, DC 20554. We will also accept your comments regarding the Paperwork Reduction Act aspects of this collection via the Internet if you send them to [PRA@fcc.gov](mailto:PRA@fcc.gov). PLEASE DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

Remember – You are not required to respond to a collection of information sponsored by the Federal government, and the government may not conduct or sponsor this collection, unless it displays a currently valid OMB control number or if we fail to provide you with this notice. This collection has been assigned an OMB control number of 3060-0678.

**THE FOREGOING NOTICE IS REQUIRED BY THE PAPERWORK REDUCTION ACT OF 1995, PUBLIC LAW 104-13, OCTOBER 1, 1995, 44 U.S.C. SECTION 3507.**



COMSEARCH  
An Andrew Company

19700 Janelia Farm Blvd.

Ashburn, Va 20147

(703)-726-5500 Fax: (703)-726-5600

<http://www.comsearch.com>

February 26, 2013

\*\*\*\*\*

\*\*\* CLIENT COPY \*\*\*

\*\*\* PLEASE MAIL \*\*\*

\*\*\* TO CUSTOMER \*\*\*

Re: The Production Crew and Co.  
PONCE, PR - PACHIN VICENS ARENA  
Temporary Transmit-Only Earth Station  
Operation Dates: 02/28/2013 - 08/28/2013  
Job Number: 130226COMSTC03

Dear Frequency Coordinator:

On behalf of The Production Crew and Co., we are forwarding the attached coordination data for a Temporary Transmit-Only Earth Station to be located at the site referenced above.

This earth station will transmit only on the satellite(s) and frequency or frequencies as described in the attached data. Please do not report cases involving 4 GHz facilities or problems involving non-active paths or frequencies outside the specified range.

COMSEARCH

Timothy O. Crutcher  
Principal Frequency Coordinator

Enclosure(s)

copy sent to: Mr. Charles Magin, EIC  
FCC - Columbia, MD

# COMSEARCH

## Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147  
(703)-726-5500 Fax: (703)-726-5600 <http://www.comsearch.com>

Date: 02/26/2013  
Job Number: 130226COMSTC03

### Administrative Information

Status: TEMPORARY (Operation from 02/28/2013 to 08/28/2013)  
Licensee Name: The Production Crew and Co.

### Site Information

Venue Name: **PONCE, PR**  
Latitude (NAD 83): PACHIN VICENS ARENA  
Longitude (NAD 83): 17°59' 11.0" N  
Climate Zone: 66°37' 5.0" W  
Rain Zone: C  
Ground Elevation (AMSL): 1  
3.0 m / 9.8 ft

### Link Information

Satellite Type: Geostationary  
Mode: TO - Transmit-Only  
Modulation: Digital  
Satellite Arc: 58°W to 99°West Longitude  
Azimuth Range: 153.9° to 244.0°  
Corresponding Elevation Angles: 66.7° / 47.6°  
Antenna Centerline (AGL): 3.66 m / 12.0 ft

### Antenna Information

Manufacturer: Prodelin  
Gain / Diameter: 42.0 dBi / 2.4 m  
3-dB / 15-dB Beamwidth: 1.00° / 2.00°

Max Available RF Power: (dBW/4 KHz) -14.1  
(dBW/MHz) 9.9

Maximum EIRP: (dBW/4 KHz) 27.9  
(dBW/MHz) 51.9  
(dBW)

Interference Objectives: Long Term -154.0 dBW/4 KHz 20%  
Short Term -131.0 dBW/4 KHz 0.0025%

### Frequency Information

Emission / Frequency Range (MHz): **Transmit 6.1 GHz**  
36M0G7W / 6197.0

Max Great Circle Coordination Distance: 225.5 km / 140.1 mi  
Precipitation Scatter Contour Radius: 100.0 km / 62.1 mi

# COMSEARCH

## Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147

(703)-726-5500 Fax: (703)-726-5600 <http://www.comsearch.com>

### Coordination Values

### PONCE, PR

The Production Crew and Co.

Licensee Name  
Latitude (NAD 83) 17°59' 11.0" N

Longitude (NAD 83) 66°37' 5.0" W

Ground Elevation (AMSL) 3.0 m / 9.8 ft

Antenna Centerline (AGL) 3.66 m / 12.0 ft

Antenna Mode Transmit 6.1 GHz

Interference Objectives: Long Term -154.0 dBW/4 KHz 20%

Short Term -131.0 dBW/4 KHz 0.0025%

Max Available RF Power -14.1 (dBW/4 KHz)

Azimuth (°)	Transmit 6.1 GHz	
	Horizon Elevation (°)	Horizon Gain (dBi)
0	1.89	-10.00
5	1.89	-10.00
10	1.21	-10.00
15	1.27	-10.00
20	0.64	-10.00
25	0.51	-10.00
30	0.37	-10.00
35	0.49	-10.00
40	1.22	-10.00
45	1.18	-10.00
50	0.60	-10.00
55	0.32	-10.00
60	0.00	-10.00
65	0.00	-10.00
70	0.00	-10.00
75	0.00	-10.00
80	0.00	-10.00
85	0.00	-10.00
90	0.00	-10.00
95	0.00	-10.00
100	0.00	-10.00
105	0.00	-10.00
110	0.00	-10.00
115	0.00	-10.00
120	0.00	-10.00
125	0.00	-10.00
130	0.00	-10.00
135	0.00	-10.00
140	0.00	-10.00
145	0.00	-10.00
150	0.00	-10.00
155	0.00	-10.00
160	0.00	-10.00
165	0.00	-10.00
170	0.00	-10.00
175	0.00	-10.00
180	0.00	-10.00
185	0.00	-10.00

Antenna Discrimination (°)      Antenna Distance (km)



# COMSEARCH

## Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147

(703)-726-5500 Fax: (703)-726-5600 <http://www.comsearch.com>

Coordination Values	PONCE, PR
Licensee Name	The Production Crew and Co.
Latitude (NAD 83)	17°59' 11.0" N
Longitude (NAD 83)	66°37' 5.0" W
Ground Elevation (AMSL)	3.0 m / 9.8 ft
Antenna Centerline (AGL)	3.66 m / 12.0 ft
Antenna Mode	Transmit 6.1 GHz
Interference Objectives: Long Term	-154.0 dBW/4 KHz 20%
Short Term	-131.0 dBW/4 KHz 0.0025%
Max Available RF Power	-14.1 (dBW/4 KHz)

Azimuth (°)	Transmit 6.1 GHz		
	Horizon Elevation (°)	Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	-10.00	225.03
195	0.00	-10.00	225.03
200	0.00	-10.00	225.03
205	0.00	-10.00	225.03
210	0.00	-10.00	225.03
215	0.00	-10.00	225.03
220	0.00	-10.00	225.03
225	0.00	-10.00	225.03
230	0.00	-10.00	225.03
235	0.00	-10.00	225.03
240	0.00	-9.97	225.27
245	0.00	-9.94	225.46
250	0.00	-10.00	225.03
255	0.00	-10.00	225.03
260	0.46	-10.00	166.76
265	0.65	-10.00	137.18
270	0.88	-10.00	111.49
275	1.07	-10.00	100.00
280	1.47	-10.00	100.00
285	1.89	-10.00	100.00
290	1.66	-10.00	100.00
295	1.63	-10.00	100.00
300	1.67	-10.00	100.00
305	1.33	-10.00	100.00
310	1.57	-10.00	100.00
315	0.79	-10.00	121.49
320	1.23	-10.00	100.00
325	1.45	-10.00	100.00
330	1.69	-10.00	100.00
335	1.74	-10.00	100.00
340	1.75	-10.00	100.00
345	1.72	-10.00	100.00
350	2.07	-10.00	100.00
355	1.84	-10.00	100.00

# COMSEARCH

## Earth Station Data Sheet

19700 Janella Farm Boulevard, Ashburn, VA 20147

(703)-726-5500 Fax: (703)-726-5600 <http://www.comsearch.com>

Pursuant to Part 25.203(c) of the FCC Rules and Regulations, the satellite earth station proposed in this application was coordinated by Comsearch using computer techniques and in accordance with Part 25 of the FCC Rules and Regulations.

Verbal and written coordination data for this earth station was conducted with the below listed carriers on 02/26/2013.

### Company

ALL AMERICAN CABLE AND RADIO INC  
AT&T COMMUNICATIONS OF VIRGIN ISLANDS  
AT&T Mobility Puerto Rico  
AT&T Mobility Virgin Islands, Inc.  
Ackley Caribbean Enterprises, Inc.  
Aeronet Wireless Broadband Corp.  
CROWN CASTLE INT CORP DE PUERTO RICO  
Choice Communications, LLC  
Critical Hub Networks, Inc.  
EVERTEC, INC  
Federal Communications Commission  
INTERISLAND TELEPHONE CORPORATION  
Iniciativa Tecnologica Centro Oriental  
Interference Office, Arecibo Observatory  
Neptuno Media  
PRWireless, Inc.  
PUERTO RICO HIGHWAY AUTHORITY  
Puerto Rico Commonwealth of State Police  
Puerto Rico Electric Power Authority  
Puerto Rico Telephone Company  
Sprint PCS  
Sprintcom, Inc  
Sprintcom, Inc. Puerto Rico  
System Development Integration, LLC  
T-Mobile Puerto Rico LLC  
UNIVERSITY OF THE VIRGIN ISLANDS  
Virgin Islands Telephone Corporation

## Analysis of Non-Ionizing Radiation for a 2.4-Meter Earth Station System

This report analyzes the non-ionizing radiation levels for a 2.4-meter earth station system. The analysis and calculations performed in this report comply with the methods described in the FCC Office of Engineering and Technology Bulletin, No. 65 first published in 1985 and revised in 1997 in Edition 97-01. The radiation safety limits used in the analysis are in conformance with the FCC R&O 96-326. Bulletin No. 65 and the FCC R&O specifies that there are two separate tiers of exposure limits that are dependant on the situation in which the exposure takes place and/or the status of the individuals who are subject to the exposure. The Maximum Permissible Exposure (MPE) limits for persons in a General Population/Uncontrolled environment are shown in Table 1. The General Population/Uncontrolled MPE is a function of transmit frequency and is for an exposure period of thirty minutes or less. The MPE limits for persons in an Occupational/Controlled environment are shown in Table 2. The Occupational MPE is a function of transmit frequency and is for an exposure period of six minutes or less. The purpose of the analysis described in this report is to determine the power flux density levels of the earth station in the far-field, near-field, transition region, between the subreflector or feed and main reflector surface, at the main reflector surface, and between the antenna edge and the ground and to compare these levels to the specified MPEs.

Table 1. Limits for General Population/Uncontrolled Exposure (MPE)

Frequency Range (MHz)	Power Density (mW/cm <sup>2</sup> )
30-300	0.2
300-1500	Frequency (MHz)*(0.8/1200)
1500-100,000	1.0

Table 2. Limits for Occupational/Controlled Exposure (MPE)

Frequency Range (MHz)	Power Density (mW/cm <sup>2</sup> )
30-300	1.0
300-1500	Frequency (MHz)*(4.0/1200)
1500-100,000	5.0

Table 3. Formulas and Parameters Used for Determining Power Flux Densities

Parameter	Symbol	Formula	Value	Units
Antenna Diameter	D	Input	2.4	m
Antenna Surface Area	A <sub>surface</sub>	$\pi D^2 / 4$	4.52	m <sup>2</sup>
Feed Flange Diameter	D <sub>fa</sub>	Input	9.1	cm
Area of Feed Flange	A <sub>fa</sub>	$\pi D_{fa}^2 / 4$	65.04	cm <sup>2</sup>
Frequency	F	Input	6175	MHz
Wavelength	$\lambda$	300 / F	0.048583	m
Transmit Power	P	Input	350.00	W
Antenna Gain (dBi)	G <sub>as</sub>	Input	42.0	dBi
Antenna Gain (factor)	G	10 <sup>G<sub>as</sub>/10</sup>	15848.9	n/a
Pi	$\pi$	Constant	3.1415927	n/a
Antenna Efficiency	$\eta$	$G\lambda^2 / (\pi^2 D^2)$	0.66	n/a

## 1. Far Field Distance Calculation

The distance to the beginning of the far field can be determined from the following equation:

$$\begin{aligned} \text{Distance to the Far Field Region} \\ R_{\#} &= 0.60 D^2 / \lambda \\ &= 71.1 \text{ m} \end{aligned} \quad (1)$$

The maximum main beam power density in the far field can be determined from the following equation:

$$\begin{aligned} \text{On-Axis Power Density in the Far Field} \\ S_{\#} &= G P / (4 \pi R_{\#}^2) \\ &= 87.233 \text{ W/m}^2 \\ &= 8.723 \text{ mW/cm}^2 \end{aligned} \quad (2)$$

## 2. Near Field Calculation

Power flux density is considered to be at a maximum value throughout the entire length of the defined Near Field region. The region is contained within a cylindrical volume having the same diameter as the antenna. Past the boundary of the Near Field region, the power density from the antenna decreases linearly with respect to increasing distance.

The distance to the end of the Near Field can be determined from the following equation:

$$\begin{aligned} \text{Extent of the Near Field} \\ R_{nr} &= D^2 / (4 \lambda) \\ &= 29.6 \text{ m} \end{aligned} \quad (3)$$

The maximum power density in the Near Field can be determined from the following equation:

$$\begin{aligned} \text{Near Field Power Density} \\ S_{nr} &= 16.0 \eta P / (\pi D^2) \\ &= 203.639 \text{ W/m}^2 \\ &= 20.364 \text{ mW/cm}^2 \end{aligned} \quad (4)$$

## 3. Transition Region Calculation

The Transition region is located between the Near and Far Field regions. The power density begins to decrease linearly with increasing distance in the Transition region. While the power density decreases inversely with distance in the Transition region, the power density decreases inversely with the square of the distance in the Far Field region. The maximum power density in the Transition region will not exceed that calculated for the Near Field region. The power density calculated in Section 1 is the highest power density the antenna can produce in any of the regions away from the antenna. The power density at a distance  $R_t$  can be determined from the following equation:

$$\begin{aligned} \text{Transition Region Power Density} \\ S_t &= S_{nr} R_{nr} / R_t \\ &= 20.364 \text{ mW/cm}^2 \end{aligned} \quad (5)$$

#### 4. Region between the Feed Assembly and the Antenna Reflector

Transmissions from the feed assembly are directed toward the antenna reflector surface, and are confined within a conical shape defined by the type of feed assembly. The most common feed assemblies are waveguide flanges, horns or subreflectors. The energy between the feed assembly and reflector surface can be calculated by determining the power density at the feed assembly surface. This can be determined from the following equation:

$$\begin{aligned} \text{Power Density at the Feed Flange} & & S_{ra} &= 4000 P / A_{ra} \\ & & &= 21525.605 \text{ mWV/cm}^2 \end{aligned} \quad (6)$$

#### 5. Main Reflector Region

The power density in the main reflector is determined in the same manner as the power density at the feed assembly. The area is now the area of the reflector aperture and can be determined from the following equation:

$$\begin{aligned} \text{Power Density at the Reflector Surface} & & S_{\text{surface}} &= 4 P / A_{\text{surface}} \\ & & &= 309.468 \text{ W/m}^2 \\ & & &= 30.947 \text{ mWV/cm}^2 \end{aligned} \quad (7)$$

#### 6. Region between the Reflector and the Ground

Assuming uniform illumination of the reflector surface, the power density between the antenna and the ground can be determined from the following equation:

$$\begin{aligned} \text{Power Density between Reflector and Ground} & & S_g &= P / A_{\text{surface}} \\ & & &= 77.367 \text{ W/m}^2 \\ & & &= 7.737 \text{ mWV/cm}^2 \end{aligned} \quad (8)$$

## 7. Summary of Calculations

Table 4. Summary of Expected Radiation levels for Uncontrolled Environment

Region	Calculated Maximum Radiation Power Density Level (mW/cm <sup>2</sup> )	Hazard Assessment
1. Far Field ( $R_{rf} = 71.1$ m)	$S_{rf}$ 8.723	Potential Hazard
2. Near Field ( $R_{nf} = 29.6$ m)	$S_{nf}$ 20.364	Potential Hazard
3. Transition Region ( $R_{rf} < R_t < R_{nf}$ )	$S_t$ 20.364	Potential Hazard
4. Between Feed Assembly and Antenna Reflector	$S_{fa}$ 21525.605	Potential Hazard
5. Main Reflector	$S_{surface}$ 30.947	Potential Hazard
6. Between Reflector and Ground	$S_g$ 7.737	Potential Hazard

Table 5. Summary of Expected Radiation levels for Controlled Environment

Region	Calculated Maximum Radiation Power Density Level (mW/cm <sup>2</sup> )	Hazard Assessment
1. Far Field ( $R_{rf} = 71.1$ m)	$S_{rf}$ 8.723	Potential Hazard
2. Near Field ( $R_{nf} = 29.6$ m)	$S_{nf}$ 20.364	Potential Hazard
3. Transition Region ( $R_{rf} < R_t < R_{nf}$ )	$S_t$ 20.364	Potential Hazard
4. Between Feed Assembly and Antenna Reflector	$S_{fa}$ 21525.605	Potential Hazard
5. Main Reflector	$S_{surface}$ 30.947	Potential Hazard
6. Between Reflector and Ground	$S_g$ 7.737	Potential Hazard

It is the applicant's responsibility to ensure that the public and operational personnel are not exposed to harmful levels of radiation.

## 8. Conclusions

Based on this analysis it is concluded that the FCC RF Guidelines have been exceeded in the specific regions of Tables 4 and 5. The applicant proposes to comply with the Maximum Permissible Exposure (MPE) limits of 1 mW/cm<sup>2</sup> for the Uncontrolled areas and the MPE limits of 5 mW/cm<sup>2</sup> for the Controlled areas by one or more of the following methods:

### Means of Compliance Uncontrolled Areas

The antenna will be located on top of a truck. The bottom lip of the dish will be 3.50 meters above ground level. The general public will not have access to areas within ½ diameter from the edge of the antenna.

Since one diameter removed from the main beam of the antenna or ½ diameter removed from the edge of the antenna the RF levels are reduced by a factor of 100 or 20 dB. None of the areas exceeding the MPE levels will be accessible by the general public.

Radiation hazard signs will be posted while this earth station is in operation.

The applicant will ensure that no buildings or other obstacles will be in the areas that exceed the MPE levels.

#### Means of Compliance Controlled Areas

The earth station's operational personnel will not have access to the areas that exceed the MPE levels while the earth station is in operation.

The transmitters will be turned off during antenna maintenance.

Approved by OMB  
3060-0678

Date & Time Filed:  
File Number: ---  
Callsign/Satellite ID:

<b>APPLICATION FOR EARTH STATION AUTHORIZATIONS</b> FCC 312 MAIN FORM FOR OFFICIAL USE ONLY	FCC Use Only
---	--------------

**APPLICANT INFORMATION**

Enter a description of this application to identify it on the main menu:

2.4 Meter Transportable

1-8. Legal Name of Applicant		The Production Crew and Co.		Phone Number:	787-667-2214
DBA Name:		Fax Number:	787-977-7762		
Street:	#169 DEL PARQUE ST SUITE 201	E-Mail:	FEDERICO.GOMEZ.HERNANDEZ@GMAIL.COM		
City:	SAN JUAN	State:	PR		
Country:	USA	Zipcode:	00911-1967		
Attention:	Mr FEDERICO E GOMEZ				

9-16. Name of Contact Representative		Phone Number:	787-667-2214
Name:	Mr FEDERICO E GOMEZ	Fax Number:	787-977-7762
Company:	The Production Crew and Co.	E-Mail:	FEDERICO.GOMEZ.HERNANDEZ@GMAIL.COM
Street:	#169 DEL PARQUE ST SUITE 201	State:	PR
City:	San Juan	Zipcode:	00911-1967
Country:	USA	Relationship:	Other
Attention:	Mr FEDERICO E GOMEZ		

**CLASSIFICATION OF FILING**

17. Choose the button next to the classification that applies to this filing for both questions a. and b. Choose only one for 17a and only one for 17b.	b. <ul style="list-style-type: none"> <li><input checked="" type="radio"/> b1. Application for License of New Station</li> <li><input type="radio"/> b2. Application for Registration of New Domestic Receive-Only Station</li> <li><input type="radio"/> b3. Amendment to a Pending Application</li> <li><input type="radio"/> b4. Modification of License or Registration</li> <li><input type="radio"/> b5. Assignment of License or Registration</li> <li><input type="radio"/> b6. Transfer of Control of License or Registration</li> <li><input type="radio"/> b7. Notification of Minor Modification</li> <li><input type="radio"/> b8. Application for License of New Receive-Only Station Using Non-U.S.</li> </ul>
a. <ul style="list-style-type: none"> <li><input checked="" type="radio"/> a1. Earth Station</li> <li><input type="radio"/> a2. Space Station</li> </ul>	



Licensed Satellite  
 (N/A) b9. Letter of Intent to Use Non-U.S. Licensed Satellite to Provide Service in the United States  
 b10. Other (Please specify)  
 b11. Application for Earth Station to Access a Non-U.S. satellite Not Currently Authorized to Provide the Proposed Service in the Proposed Frequencies in the United States.

- 17c. Is a fee submitted with this application?  
 If Yes, complete and attach FCC Form 159.  
 If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114).  
 Governmental Entity  Noncommercial educational licensee  
 Other (please explain):

17d.

Fee Classification BAX - Fixed Satellite Transmit/Receive Earth Station

- |  |   |
|--|---|
| 18. If this filing is in reference to an existing station, enter:<br>(a) Call sign of station:<br>Not Applicable | 19. If this filing is an amendment to a pending application enter:<br>(a) Date pending application was filed: (b) File number of pending application:<br>Not Applicable |
|--|---|

TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provide or use the following type(s) of service(s): Select all that apply:

- a. Fixed Satellite
- b. Mobile Satellite
- c. Radiodetermination Satellite
- d. Earth Exploration Satellite
- e. Direct to Home Fixed Satellite
- f. Digital Audio Radio Service
- g. Other (please specify)

21. STATUS: Choose the button next to the applicable status. Choose only one.

- Common Carrier  Non-Common Carrier

22. If earth station applicant, check all that apply.

- Using U.S. licensed satellites
- Using Non-U.S. licensed satellites

23. If applicant is providing INTERNATIONAL COMMON CARRIER service, see instructions regarding Sec. 214 filings. Choose one. Are these facilities:

- Connected to a Public Switched Network  Not connected to a Public Switched Network  N/A

24. FREQUENCY BAND(S): Place an "X" in the box(es) next to all applicable frequency band(s).

- a. C-Band (4/6 GHz)  b. Ku-Band (12/14 GHz)
- c. Other (Please specify upper and lower frequencies in MHz.)  
 Frequency Lower: \_\_\_\_\_ Frequency Upper: \_\_\_\_\_

TYPE OF STATION

25. CLASS OF STATION: Choose the button next to the class of station that applies. Choose only one.

- a. Fixed Earth Station
- b. Temporary-Fixed Earth Station
- c. 12/14 GHz VSAT Network
- d. Mobile Earth Station
- (N/A) e. Geostationary Space Station

(N/A) f. Non-Geostationary Space Station  
g. Other (please specify)

26. TYPE OF EARTH STATION FACILITY: Choose only one.  
 Transmit/Receive  Transmit-Only  Receive-Only  N/A

PURPOSE OF MODIFICATION

27. The purpose of this proposed modification is to: (Place an 'X' in the box(es) next to all that apply.)  
Not Applicable

ENVIRONMENTAL POLICY

28. Would a Commission grant of any proposal in this application or amendment have a significant environmental impact as defined by 47 CFR 1.1307? If YES, submit the statement as required by Sections 1.1308 and 1.1311 of the Commission's rules, 47 C.F.R. §§ 1.1308 and 1.1311, as an exhibit to this application. A Radiation Hazard Study must accompany all applications for new transmitting facilities, major modifications, or major amendments.  Yes  No

ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeronautical en route or aeronautical fixed radio station services are not required to respond to Items 30-34.

29. Is the applicant a foreign government or the representative of any foreign government?  Yes  No

30. Is the applicant an alien or the representative of an alien?  Yes  No  N/A

31. Is the applicant a corporation organized under the laws of any foreign government?  Yes  No  N/A

32. Is the applicant a corporation of which more than one-fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?  Yes  No  N/A

33. Is the applicant a corporation directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?  Yes  No  N/A

34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit an identification of the aliens or foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own or vote.

BASIC QUALIFICATIONS

35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules? If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.  Yes  No

36. Has the applicant or any party to this application or amendment had any FCC station authorization or license revoked or had any application for an initial, modification or renewal of FCC station authorization, license, or construction permit denied by the Commission? If Yes, attach as an exhibit, an explanation of circumstances.  Yes  No

37. Has the applicant, or any party to this application or amendment, or any party directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court? If Yes, attach as an exhibit, an explanation of circumstances.  Yes  No

38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition? If Yes, attach  Yes  No

as an exhibit, an explanation of circumstances

39. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party  Yes  No in any pending matter referred to in the preceding two items? If yes, attach as an exhibit, an explanation of the circumstances.

40. If the applicant is a corporation and is applying for a space station license, attach as an exhibit the names, address, and citizenship of those stockholders owning a record and/or voting 10 percent or more of the Filer's voting stock and the percentages so held. In the case of fiduciary control, indicate the beneficiary(ies) or class of beneficiaries. Also list the names and addresses of the officers and directors of the Filer.

41. By checking Yes, the undersigned certifies, that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.  Yes  No

42a. Does the applicant intend to use a non-U.S. licensed satellite to provide service in the United States? If Yes, answer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No, proceed to question 43.  Yes  No

42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, what administration has coordinated or is in the process of coordinating the space station?

43. Description. (Summarize the nature of the application and the services to be provided). Temporary fixed services for various clients throughout the United States and its territories.

43a. Geographic Service Rule Certification

By selecting A, the undersigned certifies that the applicant is not subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25.  A

By selecting B, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will comply with such requirements.  B

By selecting C, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will not comply with such requirements because it is not feasible as a technical matter to do so, or that, while technically feasible, such services would require so many compromises in satellite design and operation as to make it economically unreasonable. A narrative description and technical analysis demonstrating this claim are attached.  C

CERTIFICATION

The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. The applicant certifies that grant of this application would not cause the applicant to be in violation of the spectrum aggregation limit in 47 CFR Part 20. All statements made in exhibits are a material part hereof and are incorporated herein as if set out in full in this application. The undersigned, individually and for the applicant, hereby certifies that all statements made in this application and in all attached exhibits are true, complete and correct to the best of his or her knowledge and belief, and are made in good faith.

44. Applicant is a (an): (Choose the button next to applicable response.)

- Individual
- Unincorporated Association
- Partnership
- Corporation

- Governmental Entity
- Other (please specify)

45. Name of Person Signing  
**FEDERICO E GOMEZ-HERNANDEZ**

46. Title of Person Signing  
 Partner

47. Please supply any need attachments.

Attachment 1:

Attachment 2:

Attachment 3:

**WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT  
 (U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).**

**SATELLITE EARTH STATION AUTHORIZATIONS  
 FCC Form 312 - Schedule B:(Technical and Operational Description)**

**FOR OFFICIAL USE ONLY**

**Location of Earth Station Site**

E1: Site Identifier: **2.4M**

E5: Call Sign:

E2: Contact Name **FEDERICO E GOMEZ-HERNANDEZ**

E6: Phone Number: **787-667-2214**

E3: Street:

E7: City:

E4: State

E8: County:

E10: Area of Operation:

E9: Zip Code

E11: Latitude: **0 ° 0 ' 0.0 "**

United States and its territories

E12: Longitude: **0 ° 0 ' 0.0 "**

E13: Lat/Lon Coordinates are:

E14: Site Elevation (AMSL):

NAD-27     NAD-83     N/A  
 0.0 meters

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide a technical analysis showing compliance with two-degree spacing policy.

Yes     No     N/A

E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?

Yes     No     N/A

E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.

Yes     No

E18. Is frequency coordination required? If YES, attach a frequency coordination report as

Yes     No

E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as

Yes     No

**E20. FAA Notification - (See 47 CFR Part 17 and 47 CFR part 25.113(c))**

**Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and or the FAA's study regarding the potential hazard of the**

Yes     No

structure to aviation?  
**FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL  
 RESULT IN THE RETURN OF THIS APPLICATION.**

**POINTS OF COMMUNICATION**

Satellite Name: ALSAT | ALL AUTHORIZED U.S. | ALSAT If you selected OTHER, please enter the following:

E21. Common Name:

E22. ITU Name:

E23. Orbit Location:

E24. Country:

**POINTS OF COMMUNICATION (Destination Points)**

E25. Site Identifier:

E26. Common Name:

E27. Country:

**ANTENNA**

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmitt and/or Recieve dBi at (GHz)	
2.4M	2.4	1	Prodelim	2.4M	2.4	42.0 dBi at 6.175	
E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)	E36. Above Sea Level (meters)	E37. Building Height Above Ground Level (meters)	E38. Total Input Power at antenna flange (Watts)	E39. Maximum Antenna Height Above Rooftop (meters)	E40. Total EIRP for al carriers (dBW)
2.4	0.0/0.0	3.66	0.0	0.0	350.0	0.0	67.4

**FREQUENCY**

E28. Antenna Id	E43/44. Frequency Bands(MHz)	E45. T/R Mode	E46. Antenna Polarization (H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier(dBW)	E49. Maximum EIRP Density per Carrier (dBW/4kHz)
2.4	5925 6425	T	Right Hand Circular	36M0G7W	67.4	27.9

E50. Modulation and Services Digital Traffic Various FEC, data rates, modulation

2.4	5925 6425	T	Horizontal and Vertical	4M00G7W	57.9	27.9

E50. Modulation and Services Digital Traffic Various FEC, data rates, modulation

**FREQUENCY COORDINATION**

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits (MHz)	E54/55. Range of Satellite Arc E/W Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
2.4	Geostationary	5925 6425	0.0/0.0	0.0	5.0	0.0	5.0	-14.0

**REMOTE CONTROL POINT LOCATION**

*Handwritten notes:*  
 5136  
 320m  
 27.9  
 57.9

**REMOTE CONTROL POINT LOCATION**

E61. Call Sign		E65. Phone Number	
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.			
E62. Street Address			
E63. City	E67. County	E64/68. State/Country	E66. Zip Code

**FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT**

The public reporting for this collection of information is estimated to average 0.25 - 24 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the required data, and completing and reviewing the collection of information. If you have any comments on this burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal Communications Commission, AMD-PERM, Paperwork Reduction Project (3060-0678), Washington, DC 20554. We will also accept your comments regarding the Paperwork Reduction Act aspects of this collection via the Internet if you send them to PRA@fcc.gov. PLEASE DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

Remember - You are not required to respond to a collection of information sponsored by the Federal government, and the government may not conduct or sponsor this collection, unless it displays a currently valid OMB control number or if we fail to provide you with this notice. This collection has been assigned an OMB control number of 3060-0678.

**THE FOREGOING NOTICE IS REQUIRED BY THE PAPERWORK REDUCTION ACT OF 1995, PUBLIC LAW 104-13, OCTOBER 1, 1995, 44 U.S.C. SECTION 3507.**