

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:  
STA for Earth Station KL92 to Provide LEOP Services for the W3B Satellite

**1. Applicant**

<b>Name:</b>	PanAmSat Licensee Corp.	<b>Phone Number:</b>	202-944-7848
<b>DBA Name:</b>		<b>Fax Number:</b>	202-944-7870
<b>Street:</b>	c/o Intelsat Corporation 3400 International Drive, N.W.	<b>E-Mail:</b>	susan.crandall@intelsat.com
<b>City:</b>	Washington	<b>State:</b>	DC
<b>Country:</b>	USA	<b>Zipcode:</b>	20008 -3006
<b>Attention:</b>	Susan H Crandall		

*With Conditions*

File # SES-STA-20100812-01029

Call Sign KL92 Grant Date 8/26/2010  
(or other identifier)

Term Dates  
From launch To: + 30 days

Approved: Paul E. Hlep  
*Chief, Systems Analysis Branch*



Attachment

Condition:

All operations are on a non-protected, non-interference basis.

PanAmSat shall coordinate its operations with neighboring satellites with  $\pm 6$  degrees of its orbital location.

PanAmSat shall immediate cease operations if interference is reported.

*With Condition*

File # SES-STH-20100812-01029

Call Sign KL92 Grant Date 8/26/2010  
(or other identifier)

From Lawrence Term Dates To: +30 days

Approved: Paul E. Miller  
*Chief, System Analysis Branch*



**2. Contact**

<b>Name:</b>	PanAmSat Licensee Corp.	<b>Phone Number:</b>	202-944-7848
<b>Company:</b>		<b>Fax Number:</b>	202-944-7870
<b>Street:</b>	c/o Intelsat Corporation 3400 International Drive, N.W.	<b>E-Mail:</b>	susan.crandall@intelsat.com
<b>City:</b>	Washington	<b>State:</b>	DC
<b>Country:</b>	USA	<b>Zipcode:</b>	20008 -3006
<b>Attention:</b>	Susan H. Crandall	<b>Relationship:</b>	Legal Counsel

(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

7. City Castle Rock

8. Latitude  
(dd mm ss.s h)    39   16   38.0   N

9. State CO	10. Longitude (dd mm ss.s h) 104 48 25.0 W
11. Please supply any need attachments. Attachment 1: STA Request                      Attachment 2: Exhibit A                      Attachment 3: Exhibit B	
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;">PanAmSat Licensee Corp. herein requests a grant of Special Temporary Authority for 30 days, from September 11, 2010 through October 10, 2010, to use its Castle Rock, Colorado Ku-band earth station, call sign KL92, to provide LEOP services for the W3B satellite that is expected to be launched on September 11, 2010.</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 Susan H. Crandall	15. Title of Person Signing Asst. General Counsel, Intelsat Corporation
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**

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**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.**

August 13, 2010

Ms. Marlene H. Dortch  
Secretary

Federal Communications Commission  
445 12<sup>th</sup> Street, S.W.  
Washington, D.C. 20554



Re: Request for Special Temporary Authority  
Castle Rock, Colorado Earth Station KI92

Dear Ms. Dortch:

PanAmSat Licensee Corp. ("PanAmSat") herein requests a grant of Special Temporary Authority ("STA")<sup>1</sup> for 30 days, from September 11, 2010 through October 10, 2010, to use its Castle Rock, Colorado Ku-band earth station -- call sign KI92 -- to provide launch and early orbit phase ("LEOP") services for the W3B satellite that is expected to be launched on September 11, 2010.<sup>2</sup> The LEOP period is expected to last approximately six days.<sup>3</sup>

The W3B LEOP operations will be performed in the following frequency bands: 14250.0 MHz RHCP and 14499.8 MHz RHCP (uplink), and 11201.4 MHz RHCP and 11698.6 MHz RHCP (downlink). The LEOP operations will be coordinated with all operators of satellites that use the same frequency bands and are in the LEOP path.<sup>4</sup> All operators of satellites in that path will be provided with an emergency phone number where the licensee can be reached in the event that harmful interference occurs.

The 24x7 contact information for the W3B LEOP mission is as follows:

Harry Burnham or Mike Munion  
Ph.: (202) 944-7701

In further support of this request, PanAmSat is attaching Exhibit A, which contains a waiver request, and Exhibit B, which contains technical information that demonstrates that the operation of the earth station will be compatible with

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<sup>1</sup> PanAmSat has filed its STA request, an FCC Form 159, a \$175.00 filing fee and this supporting letter electronically via the International Bureau's Filing System ("IBFS").

<sup>2</sup> The permanent orbital location for W3B is 16° E.L.

<sup>3</sup> PanAmSat is seeking authority through October 10, 2010 to accommodate a possible launch delay.

<sup>4</sup> Telespazio, which is managing the W3B launch mission, will be handling the coordination.

Ms. Marlene H. Dortch

August 13, 2010

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its electromagnetic environment and will not cause harmful interference into any lawfully operating terrestrial facility. In the extremely unlikely event that harmful interference should occur due to transmissions to or from its earth station, PanAmSat will take all reasonable steps to eliminate the interference.

Grant of this STA request will allow PanAmSat to help launch the W3B satellite to the 16° E.L. location. This, in turn, will help ensure continuity of existing services at that location, and thereby promote the public interest.

Please direct any questions regarding this STA request to the undersigned at (202) 944-7848.

Respectfully submitted,



Susan H. Crandall

Assistant General Counsel  
Intelsat Corporation

Cc: Paul Blais

Prepared By

## COMSEARCH

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

Prepared For  
**PanAmSat Licensee Corp.**

Temporary Transmit/Receive Earth Station  
Operation Dates: 08/27/2010 - 02/27/2011

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 was conducted with the below listed carriers on July 8, 2009.

### Company

AIRCELL, LLC  
ALLTEL Communications of New Mexico, Inc  
Abraham Divestiture Company LLC  
Accelerated Internet LLC dba ResortInter  
Adcom 911  
Arvada, City of  
Boulder, County of  
CHEETAH ACCESS TECHNOLOGIES, INC  
Castle Rock, Town of - Utilities  
Cellular, Inc. Financial Corporation  
CenturyTel of Eagle, Inc.  
City of Aurora  
City of Aurora, Water Department  
Clearwire Spectrum Holdings III, LLC  
Colorado 7-Saguache Limited Partnership  
Colorado RSA No. 3 Limited Partnership  
Comnet Four Corners, LLC  
DENVER, CITY AND COUNTY OF  
Denver Educational Broadcasting Inc.  
ENTRAVISION HOLDINGS, LLC  
Eastern Colorado Independent Networks  
El Paso County Information Technologies  
Elbert County School District C-1  
Federal Communications Commission  
FiberTower Network Services Corp.  
GARFIELD COUNTY EMERGENCY COMMUNICATIONS  
Grainland Cooperative  
Great Western Communications, LLC  
Holy Cross Electric Association, Inc.  
Intermountain Rural Electric Association  
International Communications Group, Inc.



Company (Continued)

Jab Wireless, Inc.  
KLZ RADIO, INC.  
LAKEWOOD, CITY OF  
LP Broadband, Inc.  
MESA NETWORKS, INC  
METROPOLITAN AREA NETWORKS, INC.  
MHO Networks  
Millhouse Electronics Inc  
Motorola, Inc.  
N.E. Colorado Wireless Technologies, Inc  
National Digital TV/Ctr - Comcast Media  
New Cingular Wireless PCS LLC -Colorado  
Open Range Communications  
PACIFICORP  
Platte River Power Authority  
Pueblo, City of  
QWEST CORPORATION  
RED ROCKS DATA CENTER  
ROUTT COUNTY COMMUNICATIONS  
SUMMIT, COUNTY OF  
San Isabel Cellular Of Colorado L.P.  
Sangre DeCristo Cellular Inc.  
Smoky Hill Cellular of Colorado LP  
Sprint Communications Co., LP  
State of Colorado  
Stelera Wireless, LLC  
Thompson School District  
Union Pacific Railroad Company  
Union Telephone Company, Inc.  
Verizon Wireless - Mountain Region  
Vyvx, LLC - Colorado  
WESTMINSTER CITY COLORADO  
WISPER TELECOMMUNICATIONS  
WWC Holding Co., Inc  
West Metro Fire Protection District  
Wyoming State Transportation Dept.  
XTO Energy, Inc.  
Zirkel Wireless, LLC

There are no unresolved interference objections with the stations contained in this application.

The following section presents the data pertinent to frequency coordination of the proposed earth station that was circulated to all carriers within its coordination contours.

**COMSEARCH**  
**Earth Station Data Sheet**  
 19700 Janelia Farm Boulevard, Ashburn, VA 20147  
 (703)726-5500 <http://www.comsearch.com>

Date: 07/08/2010  
 Job Number: 100708COMSJC10

**Administrative Information**  
 Status: TEMPORARY (Operation from 08/27/2010 to 02/27/2011)  
 Call Sign: TEMP02  
 Licensee Code: PANAS  
 Licensee Name: PanAmSat Licensee Corp.

**Site Information**  
**CASTLE ROCK, COLORADO**  
 Venue Name  
 Latitude (NAD 83): 39° 16' 38.0" N  
 Longitude (NAD 83): 104° 48' 26.9" W  
 Climate Zone: A  
 Rain Zone: 2  
 Ground Elevation (AMSL): 2091.1 m / 6860.6 ft

**Link Information**  
 Satellite Type: Low Earth Orbit  
 Mode: TR - Transmit-Receive  
 Modulation: Digital  
 Minimum Elevation Angle: 5.0°  
 Azimuth Range: 0.0° to 360°  
 Antenna Centerline (AGL): 7.74 m / 25.4 ft

<b>Antenna Information</b>	<b>Receive</b>	<b>Transmit</b>
Manufacturer: NEC	NEC	NEC
Model: 12.5 Meter	12.5 Meter	12.5 Meter
Gain / Diameter: 62.0 dBi / 12.5 m	62.0 dBi / 12.5 m	64.0 dBi / 12.5 m
3-dB / 15-dB Beamwidth: 0.20° / 0.40°	0.20° / 0.40°	0.21° / 0.40°

Max Available RF Power: (dBW/4 KHz)	4.7
(dBW/MHz)	28.0
Maximum EIRP: (dBW/4 KHz)	68.7
(dBW/MHz)	92.0
(dBW)	92.0

Interference Objectives:	Long Term	20%	-151.0 dBW/4 KHz	20%
	Short Term		-128.0 dBW/4 KHz	0.0025%
			-146.0 dBW/MHz	0.01%

<b>Frequency Information</b>	<b>Receive 11.0 GHz</b>	<b>Transmit 14.0 GHz</b>
Emission / Frequency Range (MHz): 180KF2D / 11201.4	180KF2D / 11201.4	850KF2D / 14250.0
	180KF2D / 11698.6	850KF2D / 14499.8

Max Great Circle Coordination Distance: 319.2 km / 198.3 mi	214.8 km / 133.5 mi
Precipitation Scatter Contour Radius: 462.5 km / 287.3 mi	249.3 km / 154.9 mi

**Coordination Values**

**CASTLE ROCK, CO**

Licensee Name PanAmSat Licensee Corp.  
 Latitude (NAD 83) 39° 16' 38.0" N  
 Longitude (NAD 83) 104° 48' 26.9" W  
 Ground Elevation (AMSL) 2091.1 m / 6860.6 ft  
 Antenna Centerline (AGL) 7.74 m / 25.4 ft  
 Antenna Model NEC 12.5 Meter  
 Antenna Mode Receive 11.0 GHz  
 Interference Objectives: Long Term -156.0 dBW/MHz 20%  
 Short Term -146.0 dBW/MHz 0.01%  
 Max Available RF Power

Transmit 14.0 GHz  
 -151.0 dBW/4 KHz 20%  
 -128.0 dBW/4 KHz 0.0025%  
 4.7 (dBW/4 KHz)

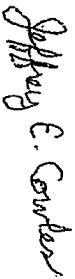
Azimuth (°)	Receive 11.0 GHz		Transmit 14.0 GHz			
	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Horizon Gain (dBi)		
			Coordination Distance (km)	Coordination Distance (km)		
0	1.16	81.12	4.50	319.20	4.50	214.80
5	1.12	76.46	4.50	319.20	4.50	214.80
10	1.02	71.80	4.50	319.20	4.50	214.80
15	0.87	67.14	4.50	319.20	4.50	214.80
20	0.96	62.55	4.50	319.20	4.50	214.80
25	1.11	58.01	4.50	319.20	4.50	214.80
30	1.29	53.54	4.50	319.20	4.50	214.80
35	1.02	49.01	4.50	319.20	4.50	214.80
40	0.93	44.60	4.50	319.20	4.50	214.80
45	1.08	40.39	4.50	319.20	4.50	214.80
50	1.20	36.35	4.50	319.20	4.50	214.80
55	0.87	32.27	4.50	319.20	4.50	214.80
60	0.70	28.54	4.50	319.20	4.50	214.80
65	0.73	25.37	4.50	319.20	4.50	214.80
70	0.93	22.96	4.50	319.20	4.50	214.80
75	0.76	21.06	4.50	319.20	4.50	214.80
80	0.76	20.37	4.50	319.20	4.50	214.80
85	0.76	20.83	4.50	319.20	4.50	214.80
90	0.69	22.32	4.50	319.20	4.50	214.80
95	0.61	24.70	4.50	319.20	4.50	214.80
100	0.71	27.87	4.50	319.20	4.50	214.80
105	0.76	31.45	4.50	319.20	4.50	214.80
110	0.71	35.29	4.50	319.20	4.50	214.80
115	0.67	39.37	4.50	319.20	4.50	214.80
120	0.73	43.65	4.50	319.20	4.50	214.80
125	0.70	48.01	4.50	319.20	4.50	214.80
130	0.60	52.45	4.50	319.20	4.50	214.80
135	0.48	56.95	4.50	319.20	4.50	214.80
140	0.48	61.53	4.50	319.20	4.50	214.80
145	0.29	66.12	4.50	319.20	4.50	214.80
150	0.28	70.77	4.50	319.20	4.50	214.80
155	0.23	75.44	4.50	319.20	4.50	214.80
160	0.29	80.13	4.50	319.20	4.50	214.80
165	0.26	84.83	4.50	319.20	4.50	214.80
170	0.00	89.53	4.50	319.20	4.50	214.80
175	0.00	94.24	4.50	319.20	4.50	214.80
180	0.00	98.94	4.50	319.20	4.50	214.80
185	0.00	103.64	4.50	319.20	4.50	214.80

<b>Coordination Values</b>	<b>CASTLE ROCK, CO</b>	
Licensee Name	PanAmSat Licensee Corp.	
Latitude (NAD 83)	39° 16' 38.0" N	
Longitude (NAD 83)	104° 48' 26.9" W	
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Antenna Centerline (AGL)	7.74 m / 25.4 ft	
Antenna Model	NEC 12.5 Meter	
Antenna Mode	Receive 11.0 GHz	
Interference Objectives:	Long Term	20%
	Short Term	-146.0 dBW/MHz
Max Available RF Power	Receive 11.0 GHz	20%
	Transmit 14.0 GHz	20%
	Short Term	-128.0 dBW/4 KHz
		0.0025%
		4.7 (dBW/4 KHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 11.0 GHz		Transmit 14.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	108.33	4.50	319.20	4.50	214.80
195	0.00	112.99	4.50	319.20	4.50	214.80
200	0.42	117.56	4.50	319.20	4.50	214.80
205	0.92	122.03	4.50	319.20	4.50	214.80
210	1.05	126.53	4.50	319.20	4.50	214.80
215	0.75	131.08	4.50	319.20	4.50	214.80
220	0.92	135.41	4.50	319.20	4.50	214.80
225	1.05	139.62	4.50	319.20	4.50	214.80
230	0.90	143.81	4.50	319.20	4.50	214.80
235	1.11	147.59	4.50	319.20	4.50	214.80
240	1.48	150.92	4.50	319.20	4.50	214.80
245	1.48	154.04	4.50	319.20	4.50	214.80
250	1.76	156.30	4.50	319.20	4.50	214.80
255	1.76	157.97	4.50	319.20	4.50	214.80
260	1.97	158.42	4.50	319.20	4.50	214.80
265	1.98	157.98	4.50	319.20	4.50	214.80
270	2.29	156.23	4.50	319.20	4.50	214.80
275	2.78	153.54	4.50	319.20	4.50	214.80
280	2.68	150.72	4.50	319.20	4.50	214.80
285	2.68	147.35	4.50	319.20	4.50	214.80
290	3.05	143.44	4.50	319.20	4.50	214.80
295	3.13	139.48	4.50	319.20	4.50	214.80
300	3.49	135.22	4.50	319.20	4.50	214.80
305	3.19	131.12	4.50	319.20	4.50	214.80
310	3.64	126.64	4.50	319.20	4.50	214.80
315	3.56	122.27	4.50	319.20	4.50	214.80
320	3.19	117.90	4.50	319.20	4.50	214.80
325	3.05	113.41	4.50	319.20	4.50	214.80
330	2.65	108.91	4.50	319.20	4.50	214.80
335	2.18	104.37	4.50	319.20	4.50	214.80
340	1.94	99.76	4.50	319.20	4.50	214.80
345	1.45	95.13	4.50	319.20	4.50	214.80
350	1.45	90.47	4.50	319.20	4.50	214.80
355	1.13	85.79	4.50	319.20	4.50	214.80

## Certification

I hereby certify that I am the technically qualified person responsible for the preparation of the frequency coordination data contained in this report. I am familiar with Parts 101 and 25 of the FCC Rules and Regulations and I have either prepared or reviewed the frequency coordination data submitted with this report, and that it is complete and correct to the best of my knowledge and belief.



Jeffrey E. Cowles  
Principal Frequency Planner  
COMSEARCH  
19700 Janelia Farm Blvd.  
Ashburn, Va. 20147

DATED: July 14, 2010