

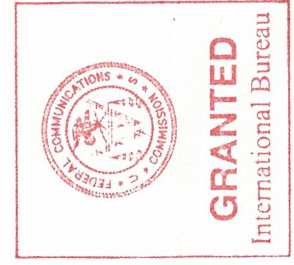
Approved by OMB
3060-0678

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
STA for .98 Meter Antenna

1. Applicant

Name:	WALGREEN CO.	Phone Number:	224-542-6880
DBA Name:		Fax Number:	
Street:	1084 MOUNT PROSPECT PLAZA	E-Mail:	fred.pino@walgreens.com
City:	MT PROSPECT	State:	IL
Country:	USA	Zipcode:	60056
Attention:	FRED PINO		



File # SES-STA-20180615-01080
 Call Sign W80547 Grant Date 6-21-18
 (or other identifier)
 Term Dates From: 6-22-18 To: 8-7-18
 Approved: [Signature]

2. Contact	
Name: FRED PINO	Phone Number: 224-542-6880
Company: WALGREEN CO.	Fax Number:
Street: 1084 MOUNT PROSPECT PLAZA	E-Mail: fred.pino@walgreens.com
City: MT PROSPECT	State: IL
Country: USA	Zipcode: 60056 -
Attention:	Relationship: Same
(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 IB2018002655	
4a. Is a fee submitted with this application?	
<input checked="" type="radio"/> If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114).	
<input type="radio"/> Governmental Entity <input type="radio"/> Noncommercial educational licensee	
<input type="radio"/> Other (please explain):	
4b. Fee Classification CGV – Fixed Satellite VSAT System	
5. Type Request	
<input checked="" type="radio"/> Use Prior to Grant <input type="radio"/> Change Station Location <input type="radio"/> Other	
6. Requested Use Prior Date	
06/21/2018	

7. City	MT PROSPECT		
8. Latitude (dd mm ss.s h)	42	4	8.0 N
9. State	IL		
10. Longitude (dd mm ss.s h)	87	55	6.0 W
11. Please supply any need attachments.			
Attachment 1: EXHIBIT A	Attachment 2: EXHIBIT B	Attachment 3:	
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.) SEE ATTACHED EXHIBITS			
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"; party to the application; for these purposes.			
14. Name of Person Signing Fred Pino			
15. Title of Person Signing Technical Architect			
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).			

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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.

Exhibit A

I. Description of Application

Walgreen Co. (“Walgreens”) hereby requests Special Temporary Authority (“STA”) to operate its VSAT system, licensed under call signs E880547 pursuant to modified parameters described in this exhibit.

Walgreens respectfully requests that the Commission act on this STA request on an expedited basis. Swift grant of this STA request will allow continued operation of the Walgreens VSAT network, an important part of our ability to communicate with the more than 8000 participating retail locations that make up the Walgreens family of retail pharmaceutical locations and related health care participants.

Due to the acquisition of some RiteAid locations, Walgreens is making the following changes to its facilities

A. Addition of a New Model .98 Meter Antenna

Walgreens respectfully requests addition of a new model .98 meter antenna. The 98 cm Prodelin antenna is a well-established Hughes product which has been approved for deployment on many US licensed satellites (SES-MOD-20061020 01873 for Callsign E920495), but which does not comply with §25.209 of the FCC’s Rules. The main lobe for the antennas is slightly wider than the performance mask in §25.209 and as a result the antenna only complies the FCC’s mask from 1.6 degrees onwards.

Prodelin Model Number: 9008668
Diameter: .98M
Number of Units Requested: 1500
Area of Operation: CONUS, PR, AK,
HI, and VI

1. Particulars of Operation:

Frequency (GHz)	Polarization	Emission	T/R Mode	Max EIRP/Carrier	Max EIRP Density	Modulation/Services
11.7-12.2	H, V	12M0G7D	R			PSK, DATA, 10 MSPS
11.7-12.2	H, V	36M0G7D	R			PSK, DATA, 30 MSPS
11.7-12.2	H, V	1M23G7D	R			PSK, DATA, 1024 KSPS
14.0–14.5	H, V	307KG7D	T	44.3	27.3	PSK, DATA, 256 KSPS
14.0–14.5	H, V	1M60G7D	T	44.3	27.3	PSK, DATA, 1024 KSPS

Max Gains: 39.9 dBi at 11.950; 41.3 dBi at 14.250
Max total input power at antenna flange: 2.0 watts
Max aggregate output EIRP for all carriers: 44.3

2. Radiation Hazard Analysis

A radiation hazard analysis was done for a Prodelin 98 cm antenna and 2 Watts of power applied at the flange, using the methodology from OET Bulletin 65. The results of this analysis, which can be seen in Exhibit B, show that the maximum permissible exposure limit (MPE) for protection of the general public of 1 mW/cm^2 is met in the near, transition, and far field as well as in the region between the reflector and the ground.

However, as is typical for all satellite antennas, the value of 1 mW/cm^2 is exceeded in the volume of space between the feed horn and the reflector. This region is not usually accessible to the general public because the units are typically installed on rooftops. As a further protection mechanism, all VSAT terminals are equipped with an automatic shut-off mechanism which disables the transmitter should the receive signal be lost. This mechanism shuts the transmitter off within milliseconds should the receive carrier be blocked.

Exhibit B
Walgreens

RADIATION CALCULATIONS FOR		0.98 meter EARTH STATION	
Nomenclature	Formula	Value	Unit
INPUT PARAMETERS			
M = Antenna Aperture Major Axis m = Antenna Aperture Minor Axis d = Diameter of Feed Mouth f = frequency		0.98 0.98 0.133 14.25	meters meters meters GHZ
P = Max Power into Antenna		2.0	Watts
n = Aperture Efficiency		63%	
k = Wavelength @ 14.25 GHz		0.0210	meters
CALCULATED VALUES			
A = Area of Reflector	$\pi \times M \times m / 4$	0.754	meters ²
l = Length of Near Field	$M^2 / 4k$	11	meters
L = Beginning of Far Field	$0.6M^2 / k$	27	meters
G = Antenna Gain @ 14.25 GHz	$n(4 \times \pi \times A) / k^2$	13,492	(41.3) dBi
a = Area of Feed Mouth	$\pi \times d^2 / 4$	0.0139	meters ²
POWER DENSITY CALCULATIONS			
Region	Maximum Power Density in Region		Hazard Assessment (FCC MPE Limit = 1 mW/cm ²)
	Formula	Value (mW/cm ²)	
1 Near Field	$4nP/A$	0.67	< FCC MPE Limit
2 Far Field	$GP / (4(\pi)L^2)$	0.29	< FCC MPE Limit
3 Transition	<= Nr Fld Region	0.67	< FCC MPE Limit
4 Near Reflector Surface	$4P/A$	1.06	> FCC MPE Limit (See Exhibit A)
5 Between Reflector & Ground	P/A	0.27	< FCC MPE Limit
6 Between Reflector and Feed	$4P/a$	57.6	> FCC MPE Limit (See Exhibit A)

Applicant: Walgreen Co.
Call Sign: E880547
File Number: SES-STA-20180615-01080
Special Temporary Authority (STA)



File # SES-STA-20180615-01080
Call Sign E880547 Grant Date 6-21-18
(or other identifier)
Term Dates
From: 6-22-18 To: 8-21-18
Approved: Paul E. Blach

Walgreen Co. is granted special temporary authority for 60 days beginning June 22, 2018 to operate 1,500 units of the 0.98-meter Prodelin model 9008668 antenna terminals with satellite Galaxy 17 (Call Sign S2715) at orbital location 91° W on 14.0-14.5 GHz (Earth-to-space) and 11.7-12.2 GHz (space-to-Earth) frequency bands throughout CONUS, Puerto Rico, Alaska, Hawaii, and Virgin Islands under the following conditions:

1. Operations will not exceed the operational power levels and parameters requested: maximum total input power at antenna flange of 2.0 Watts, maximum total output eirp for all carriers of 44.3 dBW, maximum total output eirp density per carrier of 27.3 dBW/4kHz, transmit antenna gain of 41.3 dBi at 14.25 GHz, emission carriers of 307KG7D and 1M60G7D.
2. Operations will comply with the input power density per carrier of -14 dBW/4kHz pursuant to 47 C.F.R. § 25.212.
3. Operations 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 and notify the FCC in writing.
4. Grant of this special temporary authority is without prejudice to future FCC action on Walgreen Co.'s pending application, IBFS File No. SES-MOD-20180615-01081.
5. Transmitter(s) must be turned off during antenna maintenance to ensure compliance with the FCC-specified safety guidelines for human exposure to radiofrequency radiation in the region between the antenna feed and the reflector.
6. The licensee shall take all necessary measures to ensure that the antenna does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 CFR 1.1307(b) and 1.1310 wherever such exposures might occur. Measures must be taken to ensure compliance with limits for both occupational/controlled exposure and for general population/uncontrolled exposure, as defined in these rule sections. The FCC's OET Bulletin 65 (available on-line at www.fcc.gov/oet/rfsafety) provides information on predicting exposure levels and on methods for ensuring compliance, including the use of warning and alerting signs and protective equipment for workers.

7. Any action taken or expense incurred as a result of operations pursuant to this authority is solely at Walgreen Co.'s risk.
8. Grant of this authority is without prejudice to any determination that the Commission may make regarding any pending or future application filed by Walgreen Co.

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.