

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:  
Request for Extension of Special Temporary Authority SES-STA-20170223-00196


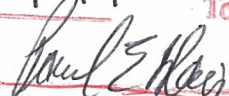
1. Applicant

**Name:** Orbital Media Networks, Inc. **Phone Number:** 303-925-1708  
**DBA Name:** **Fax Number:** 303-925-1714  
**Street:** 76 Inverness Dr. East **E-Mail:** fcc@orbitalmedianetworks.com  
Suite C  
**City:** Englewood **State:** CO  
**Country:** USA **Zipcode:** 80112  
**Attention:** Mr Michael Hagens



File # SES-STA-20170405-00361  
2010074 **Grant Date** 4-7-17  
(or other identifier)  
**Term Dates**  
From: 4-7-17 To: 6-6-17  
Approved: [Signature]

Applicant: Orbital Media Networks, Inc.  
Call Sign: E010074  
File No.: SES-STA-20170405-00361  
Special Temporary Authority

 <b>GRANTED</b> International Bureau	File #	SES-STA-20170405-00361
	Call Sign (or other identifier)	E010074
	Grant Date	4-7-17
	From	4-7-17
	Term Dates To	6-6-17
Approved:		

Orbital Media Networks, Inc. is granted an extension of 60 days to operate a Suman 3.7 meter antenna on Special Temporary Authority at fixed earth station, Call Sign E010074, in Englewood, Colorado to communicate with AMC-18 satellite at the 104.95° W.L. orbital location on frequency bands 5925-6425 MHz (Earth-to-space) and 3700-4200 MHz (space-to-Earth) under the following conditions:

1. Operations will not exceed the operational power levels and parameters requested and coordinated under the filed license application IBFS File No. SES-LIC-20170405-00362.
2. 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 that it has received such a notification within 14 days of receipt..
3. Any action taken or expense incurred as a result of operations pursuant to this STA is
4. 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. Appropriate measures must also be taken to restrict access to other regions in which the earth station's power flux density levels exceed the specified guidelines.
5. 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](http://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.
6. Grant of this authorization is without prejudice to any determination that the Commission may make regarding pending or future Orbital Media Networks, Inc. applications.
7. Operations of this earth station with AMC-18 satellite at the 104.95° W.L. orbital location from April 4, 2017 to the grant of this applicant was authorized pursuant to Section 1.62 of the Commission's rules, 47 C.F.R. §1.62.

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.

<b>2. Contact</b>	
<b>Name:</b> Michael Hagens	<b>Phone Number:</b> 303-799-7222
<b>Company:</b> Orbital Media Networks, Inc.	<b>Fax Number:</b> 303-925-1714
<b>Street:</b> 76 Inverness Drive East	<b>E-Mail:</b> fcc@orbitalmedianetworks.com
Suite C	
<b>City:</b> Englewood	<b>State:</b> CO
<b>Country:</b> USA	<b>Zipcode:</b> 80112
<b>Attention:</b>	<b>Relationship:</b> 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 SESMODINTR201700877 or Submission ID	
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 CGX – Fixed Satellite Transmit/Receive Earth Station	
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	
04/05/2017	

7. City Englewood	8. Latitude (dd mm ss.s h) 39 34 47.0 N
9. State CO	10. Longitude (dd mm ss.s h) 104 51 35.0 W
11. Please supply any need attachments. Attachment 1: Attachment 2: STA Extension Request Attachment 3: SESSTA2017022300196	
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.) Request for extension of Special Temporary Authority	
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. Yes <input checked="" type="radio"/> No <input type="radio"/>	
14. Name of Person Signing Michael Hagans	15. Title of Person Signing President
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.**

## REQUEST FOR EXTENSION OF SPECIAL TEMPORARY AUTHORITY

Orbital Media Networks, Inc. ("OMNi"), pursuant to Section 25.120 of the Commission's rules, hereby requests extension of Special Temporary Authority ("STA") to continue to operate a fixed 3.7-m antenna at its Englewood, CO facility in the manner described herein. OMNi respectfully requests that its STA, SES-STA-20170223-00196 incorporated by reference herein, be extended by one hundred twenty (120) days beginning 4/5/2017 - immediately after the original expiration date of April 4, 2017, consistent with 47 C.F.R. 25.120(b)(2) of the Commission's rules.

OMNi has filed for modification of our existing license (Call Sign E010074) to add the subject antenna to the same license. OMNi anticipates that it will require a period exceeding the term of the previously granted STA for the Commission to act on the license modification application SES-MOD-INTR2017-00877.

Continued operations will comply with the technical specifications set forth in the existing STA.

Grant of this STA extension will serve the public interest, convenience, and necessity because of the peculiar situation arising from the mass migration of commercial radio networks from distribution over AMC8 (139 degrees West) to AMC18 (105 degrees West).

- 1) Most commercial radio stations take syndicated programming from one or more of the major syndicators moving from AMC8 to AMC18. This migration began February 7th and is expected to end no later than August 31<sup>st</sup>, 2017.
- 2) Since most commercial radio stations have only one C-Band receive earth station, usually shared between multiple radio stations at their studio / office location, and since the vast majority of stations that use syndicated programming also take programs from more than one of the major syndicators, it is important that all of the syndicators a) become available at the same time on AMC18, and b) provide programming on both satellites for some period of time (the "dual illumination period") so there is plenty of time for stations to repoint, repair, or replace their antennas.
- 3) Orbital Media Networks operates two receiver platforms to serve affiliates of Orbital Media Networks programming and programming that we distribute for third party syndicators. We made arrangements for our satellite fleet operator, SES, to provide dual-illumination services at one of their earth stations, receiving our two carriers, which we transmit to the new satellite from our Englewood, CO Earth Station, decoding them to ASI streams, and re-modulating, upconverting, and transmitting them to the other satellite.
- 4) Unfortunately our older receiver platform is not fully DVB compliant and SES has been unable to successfully dual-illuminate a carrier for that platform, a problem which would leave hundreds of stations without the syndicated programming they count on, if left unsolved.

The STA we seek to extend allows us to continue to dual-illuminate our older Starguide carrier locally in Englewood, CO transmitting using the 3.7m Suman antenna that was previously licensed at our site, and is currently being operated under STA (SES-STA-20170223-00196), thereby eliminating an excessive burden on the radio stations depending on that platform for programming. The required coordination study (performed by Micronet) was clear and the engineering exhibits necessary to show compliance with FCC rules and / or justify an appropriate waiver for re-licensing the 3.7m antenna in question have been filed under SES-MOD-INTR2017-00877. Our proposed operation falls within the off-axis emissions envelope of the 6.1m antenna already authorized at the same site on our existing Earth Station (Call Sign E010074) license.

Respectfully submitted,

A handwritten signature in black ink, appearing to be 'M Hagans', with a long horizontal flourish extending to the right.

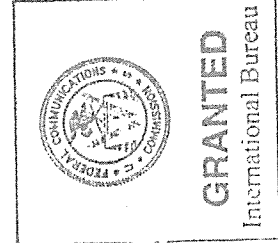
Michael Hagans  
President – Orbital Media Networks, Inc.  
76 Inverness Drive East – Suite C  
Englewood, CO 80112  
Desk 303-799-7222  
Cell 720-490-7116

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:  
Request for Extension of Special Temporary Authority SES-STA-20170131-00106

1. Applicant

Name: Orbital Media Networks, Inc. Phone Number: 303-925-1708  
DBA Name: Fax Number: 303-925-1714  
Street: 76 Inverness Dr. East E-Mail: fcc@orbitalmedianetworks.com  
Suite C  
City: Englewood State: CO  
Country: USA Zipcode: 80112  
Attention: Mr Michael Hagens



File # SES-STA-20170223-00196  
2010074 Call Sign Grant Date 3-2-17  
(or other identifier)  
Term Dates From: 3-5-17 To: 7-1-17  
Approved: *Michael E. Blas*  
ANR-18 on file 10/19/18 only



Applicant: Orbital Media Networks, Inc.  
Call Sign: E010074  
File No.: SES-STA-20170223-00196  
Special Temporary Authority



File # SES-STA-20170223-00196  
Call Sign E010074 Grant Date 3-2-17  
(or other identifier)  
Term Dates  
From: 3-5-17 To: 4-4-17  
Approved: [Signature]

Orbital Media Networks, Inc. is granted an extension of 30-day Special Temporary Authority to operate a Suman 3.7 meter antenna at fixed earth station, Call Sign E010074, in Englewood, Colorado to communicate with the ~~Permitted List~~ satellite <sup>AMSAT</sup> AMC-18 at the 104.95° W.L. orbital location on frequency bands 5925-6425 MHz (Earth-to-space) and 3700-4200 MHz (space-to-Earth) under the following conditions:

1. Operations will not exceed the operational power levels and parameters requested and coordinated under previously filed license application SES-LIC-20111019-01241.
2. 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 that it has received such a notification within 14 days of receipt.
3. Any action taken or expense incurred as a result of operations pursuant to this STA is solely at Orbital Media Networks, Inc's risk.
4. 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. Appropriate measures must also be taken to restrict access to other regions in which the earth station's power flux density levels exceed the specified guidelines.
5. 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](http://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.
6. Grant of this authorization is without prejudice to any determination that the Commission may make regarding pending or future Orbital Media Networks, Inc applications.

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.

**2. Contact**

**Name:** Michael Hagans      **Phone Number:** 303-799-7222  
**Company:** Orbital Media Networks, Inc.      **Fax Number:** 303-925-1714  
**Street:** 76 Inverness Drive East      **E-Mail:** fcc@orbitalmedianetworks.com  
Suite C  
**City:** Englewood      **State:** CO  
**Country:** USA      **Zipcode:** 80112  
**Attention:**      **Relationship:** Engineer

(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 SESSTA2017013100106 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  
03/04/2017

7. City	Englewood
8. Latitude (dd mm ss.s h)	39 34 47.0 N
9. State	CO
10. Longitude (dd mm ss.s h)	104 51 35.0 W
11. Please supply any need attachments.	
Attachment 1:	Attachment 2: SESSTA2017013100106
Attachment 3:	STA Extension Request
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.)	
Request for extension of Special Temporary Authority	
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	Michael Hagans
15. Title of Person Signing	President
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## REQUEST FOR EXTENSION OF SPECIAL TEMPORARY AUTHORITY

Orbital Media Networks, Inc. ("OMNi"), pursuant to Section 25.120 of the Commission's rules, hereby requests extension of Special Temporary Authority ("STA") to continue to operate a fixed 3.7-m antenna at its Englewood, CO facility in the manner described herein. OMNi respectfully requests that its STA, SES-STA-20170131-00106 incorporated by reference herein, be extended by sixty (60) days beginning at the original expiration date of March 4, 2017, consistent with 47 C.F.R. 25.120(b)(2) of the Commission's rules.

OMNi intends to file for modification of our existing license (Call Sign E010074) to add the subject antenna to the same license. OMNi anticipates that it will require a period exceeding the term of the granted STA to complete an expedited frequency coordination and file for the license modification.

Continued operations will comply with the technical specifications set forth in the existing STA.

Grant of this STA extension will serve the public interest, convenience, and necessity because of the peculiar situation arising from the mass migration of commercial radio networks from distribution over AMC8 (139 degrees West) to AMC18 (105 degrees West).

- 1) Most commercial radio stations take syndicated programming from one or more of the major syndicators moving from AMC8 to AMC18. This migration began February 7th and is expected to end no later than August 31<sup>st</sup>, 2017.
- 2) Since most commercial radio stations have only one C-Band receive earth station, usually shared between multiple radio stations at their studio / office location, and since the vast majority of stations that use syndicated programming also take programs from more than one of the major syndicators, it is important that all of the syndicators a) become available at the same time on AMC18, and b) provide programming on both satellites for some period of time (the "dual illumination period") so there is plenty of time for stations to repoint, repair, or replace their antennas.
- 3) Orbital Media Networks operates two receiver platforms to serve affiliates of Orbital Media Networks programming and programming that we distribute for third party syndicators. We made arrangements for our satellite fleet operator, SES, to provide dual-illumination services at one of their earth stations, receiving our two carriers, which we transmit to the new satellite from our Englewood, CO Earth Station, decoding them to ASI streams, and re-modulating, upconverting, and transmitting them to the other satellite.
- 4) Unfortunately our older receiver platform is not fully DVB compliant and SES has been unable to successfully dual-illuminate a carrier for that platform, a problem which would leave hundreds of stations without the syndicated programming they count on, if left unsolved.

The STA we seek to extend allows us to dual-illuminate our older Starguide carrier locally in Englewood, CO transmitting using the 3.7m Suman antenna that was previously licensed at our site, and is currently being operated under STA (SES-STA-20170131-00106), thereby eliminating an excessive burden on the radio stations depending on that platform for programming. Micronet is currently performing the required coordination study and preparing the engineering exhibits necessary to show compliance with FCC rules and / or justify an appropriate waiver to make re-licensing the 3.7m antenna in question practical. Our proposed operation falls within the off-axis emissions envelope of the 6.1m antenna already authorized at the same site on our existing Earth Station (Call Sign E010074) license.

Respectfully submitted,

A handwritten signature in black ink, appearing to be the name 'Michael Hagans', written in a cursive style with a long horizontal flourish extending to the right.

Michael Hagans  
President – Orbital Media Networks, Inc.  
76 Inverness Drive East – Suite C  
Englewood, CO 80112  
Desk 303-799-7222  
Cell 720-490-7116