



**UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION**

RADIO STATION REGISTRATION

Name: University of WI - Madison

Call Sign: E191494

Authorization Type: Registration

File Number: SES-REG-20181009-05114

Common Carrier

Grant date: 06/30/2020

Expiration Date: 10/09/2033

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)	UWSSEC	1225 West Dayton St Madison, Dane, WI 53706	43°4'14.0"N	89°24'24.0"W	276	27

Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209

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 October 9, 2018 (3 AM Eastern Standard Time) and ending October 9, 2033 (3 AM Eastern Standard Time) . The required date of commencement of operation is 00/00/0000. 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)	3700.0000-3840.0000	H,V	36M0F8F	Rx			LittleAndr		DVBS2 Geonetcast
2)	3700.0000-4200.0000	H,V	36M0G7D	Rx			Orchard		8 PSK, DVBS2 NOAAport, Gilmore Relay, Wallops Relay, Meteosat second generation relay
3)	3700.0000-4200.0000	H,V	36M0G7D	Rx			Patriot1		8PSK, DVBS2, NOAAport
4)	3700.0000-4200.0000	H,V	36M0G7D	Rx			Patriot3		8 PSK, DVBS2 NOAAport, Gilmore Relay



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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	55.0W	-124.0W	30.0	-29.0	135.0	-225.0		Orchard
2)	3700.0000-4200.0000	75.0W	-135.0W	38.0	-23.0	085.0	-225.0		Patriot1
3)	3700.0000-4200.0000	68.0W	-137.0W	36.0	-22.0	150.0	-238.0		Patriot3
4)	3700.0000-4200.0000	58.0W	-58.0W	31.0	-31.0	138.0	-138.0		LittleAndr

D) Points of Communications

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

- 1) UWSSEC to SES-2 @ 87 ° W.L. (U.S.-licensed satellite)
- 2) UWSSEC to SES-1 (S2807) @ 101 degrees W.L. (U.S.-licensed)
- 3) UWSSEC to INTELSAT 21 (S2863) @ 58.0 degrees W.L. (U.S.-licensed)
- 4) UWSSEC to GALAXY 28 (S2160) @ 89 degrees W.L. (U.S.-licensed)

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)
UWSSEC	LittleAndr	1	3.8	Andrews	NA	276	70 AGL/ 331 AMSL	
			Max Gains(s): 41.8 dBi @ 3.9000 GHz					
			Maximum total input power at antenna flange (Watts) =		.00			
			Maximum aggregate output EIRP for all carriers (dBW) =		.00			
UWSSEC	Orchard	1	11	Unknown	NA	276	15 AGL/ 276 AMSL	
			Max Gains(s): 41.8 dBi @ 3.9000 GHz		43.2 dBi @ 3.6000 GHz		43.2 dBi @ 3.6000 GHz	
			Maximum total input power at antenna flange (Watts) =		.00			
			Maximum aggregate output EIRP for all carriers (dBW) =		.00			
UWSSEC	Patriot1	1	4.5	Patriot	NA	276	65 AGL/ 326 AMSL	
			Max Gains(s): 43.2 dBi @ 3.9000 GHz					
			Maximum total input power at antenna flange (Watts) =		.00			
			Maximum aggregate output EIRP for all carriers (dBW) =		.00			



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Site ID	Antenna ID	Units	Diameter (meters)	Manufacturer	Model number	Site Elevation (Meters)	Max Antenna Height (Meters)	Special Provisions (Refer to Section H)
UWSSEC	Patriot3	1	6.3	Patriot	630DAKP	276	70 AGL/ 331 AMSL	
Max Gains(s):		46.4 dBi @ 3.9000 GHz						
Maximum total input power at antenna flange (Watts) =					.00			
Maximum aggregate output EIRP for all carriers (dBW) =					.00			

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:

- 4 --- Licensee must ensure that a current listing of the name, title, mailing address, email address, and telephone number of the responsible point of contact are on file at the FCC. Any changes must be filed electronically in the International Bureau Filing System (MyIBFS) using the "Pleadings and Comments" link on the MyIBFS homepage within 10 days of the change.
- 6 --- Licensee must comply with the license modification and notification requirements of 47 CFR § 25.118 to change the coordinates of its authorized earth station.
- 8 --- Licensee must notify the Commission when all earth stations operating under this authorization are no longer operational or when they have not been used to provide any service during any 6-month operation.

2465 --- Operation of this receive-only earth station shall be in accordance with the frequency coordination exhibit completed for this station.

90398 --- Changes to previously authorized transmitting facilities, operations and devices regulated by the Commission that may have significant environmental impact, and are not excluded by §1.1306, require the preparation of an Environmental Assessment (EA) by the licensee. (See 47 C.F.R. §§1.1307, 1.1308 and 1.1311)

90470 --- The application for this authorization was filed within the 194-day filing window for FSS earth stations operating in the 3700-4200 MHz frequency band as of April 19, 2018, as established by Public Notice DA 18-398 (rel. Apr. 19, 2018) and Public Notice DA-18-639 (rel. Jun. 21, 2018), and Public Notice DA 18-1061 (rel. Oct. 17, 2018).

90471 --- The application for this authorization was filed with a coordination report therefore operations of this earth station in the 3700-4200 MHz band are protected within the limits establish by the coordination report filed.



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H) Special and General Provisions

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

900407 --- The Permitted Space Station List (Permitted List) is a list of all geostationary space stations providing fixed-satellite service pursuant to a Commission license or grant of U.S. market access. The Permitted List currently includes the following frequency bands per §25.103 and §25.115(k)(1):

- 3600-4200 MHz (space-to-Earth)
- 5850-6725 MHz (Earth-to-space)
- 10.95-11.2 GHz (space-to-Earth)
- 11.45-12.2 GHz (space-to-Earth)
- 13.75-14.5 GHz (Earth-to-space)
- 18.3-18.8 GHz (space-to-Earth)
- 19.7-20.2 GHz (space-to-Earth)
- 24.75-25.25 GHz (Earth-to-space)
- 28.35-28.6 GHz (Earth-to-space)
- 29.25-30.0 GHz (Earth-to-space).

Earth stations with "Permitted List" designated as a point of communication may access any space station on the Permitted List, provided the operations comply with the applicable "routine" uplink and downlink limits, are within the specific frequency bands authorized in the earth station license, have completed coordination with terrestrial stations pursuant to §25.203, and otherwise comply with all terms and conditions of both the earth station license and the space station grant.



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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.

Licensees 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.