

Date & Time Filed: Apr 15 2021 6:46:30:156PM File Number: SAT—STA—20210415—00051

Callsign:

* with conditions

Approved by OMB 3060-0678

*With Conditions () FEDERAL COMMUNICATIONS COMMISSION

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APPLICATION FOR SPACE STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu: STA for Corrected Telecommand Channel (April 2021)

1. Applicant	icant			
***************************************	Name:	R2 Space, Inc.	Phone Number:	207-841-2170
	DBA Name:		Fax Number:	
	Street:	535 West William	E-Mail:	ryan@r2space.com
		Suite 401		
	City:	Ann Arbor	State:	MI
	Country:	USA	Zipcode:	48103 -
	Attention:	David S. Keir		

ATTACHMENT TO GRANT

R2 Space, Inc.
IBFS File No. SAT-STA-20210415-00051

IBFS File No(s):	SAT-STA-20210415-00051	GRANTED -
Licensee/Grantee:	R2 Space, Inc. (R2 Space)	With Conditions
Call Sign:	S3067	OSITED STATES
Satellite Name:	XR-1	
Orbital Location:	Non-geostationary satellite orbit (NGSO), initial	E S
(required station-	deployment to ~550 km altitude (± 50 km), 97.7 degrees	EDER A SOURCE OF SERVICE OF SERVI
keeping tolerance)	(± 15 degrees) inclination, Local Time of Descending Node (LTDN) of 9:30 AM (± 60 min)	COMMUNICATIONS CO
Administration:	United States of America	International Bureau
Nature of Service:	Earth Exploration Satellite Service (EESS)	Satellite Division
Scope of Grant:	Special temporary authority for a period of 60 days to condu	act telemetry, tracking and
	command (TT&C) with the XR-1 space station using a telection 2086.836-2086.964 MHz. ¹	command uplink channel at
Service Area(s):		command uplink channel at
Service Area(s): Frequencies:	2086.836-2086.964 MHz. ¹	command uplink channel at
	2086.836-2086.964 MHz. ¹ Global, subject to limitations in specific frequency bands	•
	2086.836-2086.964 MHz. ¹ Global, subject to limitations in specific frequency bands 8225-8375 MHz (space-to-Earth)	•
	2086.836-2086.964 MHz. ¹ Global, subject to limitations in specific frequency bands 8225-8375 MHz (space-to-Earth) 9500-9800 MHz (space-to-Earth) Synthetic Aperture Radar	•

Operations under this grant must comport with the legal and technical specifications set forth by the applicant or petitioner and with the Federal Communications Commission's rules not waived herein. This grant is also subject to the following conditions:

- 1. Other than the use of the specified 2086.836-2086.964 MHz frequency band in lieu of the 2086.736-2086.864 MHz frequency band, operations of XR-1 must comport with the terms and conditions of the authorization for XR-1 granted in part and deferred in part on December 18, 2020. *See* IBFS File No. SAT-LOA-20200511-00042.
- 2. All operations under this grant of special temporary authority must be on an unprotected and non-harmful interference basis, i.e., the XR-1 space station must not cause harmful interference to, and shall not claim protection from interference caused to it by, any other lawfully operating station. In the event of any harmful interference, R2 Space must cease operations immediately upon notification of such interference, and shall inform the Commission, in writing, immediately of such an event.
- This action is without prejudice to any enforcement action in connection with operations at variance from the terms and conditions specified in IBFS File No. SAT-LOA-20200511-00042 (granted-inpart/deferred-in-part Dec. 18, 2020).

Licensee/grantee is afforded thirty (30) days from the date of release of this action to decline the grant as conditioned. Failure to respond within this period will constitute formal acceptance of the grant as conditioned.

This action is taken pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 CFR § 0.261, and is effective upon release.

Station licenses are subject to the conditions specified in Section 309(h) of the Communications Act of 1934, as amended, 47 U.S.C. § 309(h).

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¹ See IBFS File No. SAT-LOA-20200511-00042 (granted-in-part/deferred-in-part Dec. 18, 2020).

ATTACHMENT TO GRANT

R2 Space, Inc. IBFS File No. SAT-STA-20210415-00051

Action Date:	April 30, 2021		
Term Dates	From: April 30, 2021	To: period of 60 days	
	John W. Whaley Acting Chief, Satellite Police		
	John W. Whaley Acting Chief, Satellite Policy		

Company:	David 3. IXII		202-416-6742
Ctwoot	Lerman Senter PLLC	Fax Number:	
oli eel.	2001 L Street, N.W.	E-Mail:	dkeir@lermansenter.com
	Suite 400		
City:	Washington	State:	DC
Country:	USA	Zipcode:	20036 –
Attention:		Relationship:	Legal Counsel
(If your application is related to application. Please enter only one.) 3. Reference File Number or St	(If your application is related to an application filed with the C plication. Please enter only one.) 3. Reference File Number or Submission ID IB2021001569	th the Commission, enter either 1001569	(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 plication. Please enter only one.) 3. Reference File Number or Submission ID IB2021001569
4a. Is a fee submitte If Yes, complete ar	4a. Is a fee submitted with this application? If Yes, complete and attach FCC Form 159. If No, i	If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).	(see 47 C.F.R.Section 1.1114).
O Governmental Ent	O Governmental Entity O Noncommercial educational licensee	nal licensee	
O Other(please explam):	m);		
4b. Fee Classification	CXW - Space Station (Non-Geostationary)	ostationary)	
5. Type Request			
O Change Station Location		O Extend Expiration Date	Other
6. Temporary Orbit Location	cation	7. Requested Ex	7. Requested Extended Expiration Date

8. 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.)	es not appear in this box, please go to the	and of the form to view it in it	its entirety.)	
Request for authority to oper MHz (center frequency at 2086 application.	operate using corrected telecommand uplink at 2086.836-2086.96.2086.96.96.986.9 MHz) prior to action on concurrently filed modification	nand uplink at 2086. concurrently filed m	2086.836-2086.964 .led modification	Q
9. 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.	at neither applicant nor any other party to the benefits pursuant to Section 5301 of the for possession or distribution of a controlle application" for these purposes.	107	▼ Yes ✓ No No	
10. Name of Person Signing Ryan Farris	11. Title of Person Signing CFO	on Signing		T
12. Please supply any need attachments.				Γ
Attachment 1: Explanatory Stmt	Attachment 2:	Attachment 3:		Г
WILLFUL FALSE STATEMENTS N (U.S. Code, Title 18, Sectio	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	SLE BY FINE AND / OR IM NY STATION AUTHORIZAT	PRISONMENT	1
(U.S. Code, Title 47, Sect	(U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).	U.S. Code, Title 47, Section 5	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 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 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 DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

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EXPLANATORY STATEMENT

As explained in its concurrently filed modification application, R2 Space, Inc. ("R2 Space") was granted authority on December 18, 2020 to launch XR-1, the initial satellite in its XR Earth-Exploration Satellite Service network. *See* FCC Public Notice, Satellite Policy Branch Information: Actions Taken, Report No. SAT-01518, DA No. 20-1502 (IB, rel. 12/18/2020), at 2 (grant issued in part/deferred in part in FCC File No. SAT-LOA-20200511-00042, Call Sign S3067). This partial grant of its application specified a telecommand uplink receive channel utilizing 128 kHz of bandwidth at 2086.736-2086.864 MHz (i.e., with the center frequency at 2086.8 MHz). Shortly thereafter, consistent with the condition on the license grant, R2 Space submitted to the FCC advance publication information for the XR-1 satellite specifying a slightly different 128 kHz channel at 2086.836-2086.964 MHz (center frequency at 2086.9 MHz). The information contained in the API is correct. Accordingly, R2 Space has submitted a modification application to correct the telecommand uplink receive channel specified in its license to instead reflect the correct 2086.836-2086.964 MHz included in the API. No other changes to the license are required in the modification.

Currently, the satellite is being operated during its in-orbit testing phase by ICEYE (ICEYE also holds an EESS license that is issued by the Finnish administration). Both parties are anxious for the XR-1 satellite to be transferred to R2 Space to commence operations under its U.S. license. Currently, the principal impediment to the handover is the discrepancy in the telecommand uplink. Accordingly, to allow this step to occur in the very near term and for U.S. operations to commence consistent with the API submitted to the ITU, R2 Space requests special temporary authority ("STA") effective Tuesday, April 20, 2021 to receive telecommand transmissions at 2086.836-2086.964 MHz.

Under Section 25.120(b)(1) of the FCC's Rules, the International Bureau may grant an STA when the public interest supports the relief requested, and/or delay in the institution of temporary operations would be contrary to the public interest. See 47 C.F.R. § 25.120(b)(1). Such authority may be granted for a period not to exceed 60 days where the applicant has filed a request for permanent authority for the parameters and facilities requested. See 47 C.F.R. § 25.120(b)(3). This is the case here, where R2 Space has filed an application to modify its license to specify the corrected telecommand uplink channel.

R2 Space, Inc. FCC Form 312STA April 2021 Page 2 of 2

Grant of the requested STA will promote the public interest by permitting R2 Space to initiate its operations using a license that was granted four months ago and utilize a receive frequency consistent with the API that the FCC has already submitted to the ITU. The requested revision does not alter R2 Space's transmit authority, but merely adjusts the receive channel to be utilized for the telecommand uplink from Earth stations already authorized to transmit in this S-band frequency range. Accordingly, grant of the authority requested is consistent with Commission policy and will not adversely affect other authorized operations. R2 Space acknowledges that any action taken pursuant to a grant of the requested STA will be at its own risk, and respectfully requests that the FCC grant it authority commencing on or about Tuesday, April 20, 2021, for a period of sixty (60) days, to use the requested telecommand uplink channel.