

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

WS9XQM

(Call Sign)

XT MO

(Class of Station)

1371-EX-ST-2021

(File Number)

NAME Care Weather

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:

The purpose of this test is to validate radio performance over a long distance in order to ensure performance on orbit.

Station Locations

- (1) MOBILE: The Utah County desert surrounding the location LAKE SHORE, UTAH, within 100 km, centered around NL 40-07-26; WL 111-48-57
- (2) MOBILE: The Utah County desert surrounding the location EAGLE MOUNTAIN, UTAH, within 100 km, centered around NL 40-10-53; WL 111-55-27

Frequency Information

MOBILE: The Utah County desert surrounding the location LAKE SHORE, UTAH, within 100 km, centered around NL 40-07-26; WL 111-48-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
137.87-137.93 MHz	MO	60K0F2D	15.84 W (ERP)	0.001 %

This authorization effective September 21, 2021 and
will expire 3:00 A.M. EST March 02, 2022

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: The Utah County desert surrounding the location EAGLE MOUNTAIN, UTAH, within 100 km, centered around NL 40-10-53; WL 111-55-27

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
137.87-137.93 MHz	MO	60K0F2D	2 W (ERP)	0.001 %

Special Conditions:

- (1) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (2) Licensee is authorized to conduct "ground to ground" tests between a prototype of the Cubesat radio and one Care Weather 001 and/or one Care Weather 002 antennas.
- (3) Prior to commencing any operations in the 137.87-137.93 MHz frequency band, experimental licensee must notify licensee of ORBCOMM License Corp. (Call signs: E940534, S2103. Mr. Walter H. Sonnenfeldt, Phone Number: 585-461-3018, E-Mail: sonnenfeldt.walter@orbcomm.com). The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should include the testing parameters (specific location(s), antenna gain(s), antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test.
- (4) Prior to commencing any operations in the 137.87-137.93 MHz frequency band, experimental licensee must notify licensee of Swarm Technologies, Inc. (Call signs: E190490, S3041. Dr. Sophie Arlow, Phone Number: 425-753-3349, E-Mail: sophie@swarm.space). The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should include the testing parameters (specific location(s), antenna gain(s), antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test.
- (5) Further requests for extension of the authority granted herein must be filed on Form 442, "Application for New or Modified Radio Station Authorization under Part 5 of FCC Rules - Experimental Radio Service." Future STA requests to extend this authorization will not be considered.