



U.S. Department  
of Transportation  
**Federal Aviation  
Administration**

Airport Traffic Control Tower  
6311 34<sup>th</sup> Avenue South  
Minneapolis, MN 55450

March 25, 2011

Carol Marple  
8414 122<sup>nd</sup> Avenue North  
Champlin, MN 55316

Dear Ms. Marple:

Enclosed is the Minnesota Amateur Spacemodeler Association (MASA) waiver package for 2011, which includes the Certificate of Waiver or Authorization, Special Provisions, and the Central Altitude Reservation Function sanction.

Please call Pat Karsten at 612-713-4014 if you have any questions.

Sincerely,

A handwritten signature in blue ink, appearing to read "Dawn M. Ingraham".

*Dawn M. Ingraham*

Dawn M. Ingraham  
District Manager, Northern Lights District

Enclosures

U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

# CERTIFICATE OF WAIVER OR AUTHORIZATION

ISSUED TO

Carol Marple – Minnesota Amateur Spacemodeler Association (MASA)

ADDRESS

8414 122nd Avenue North, Champlin, MN 55316

This certificate is issued for the operations specifically described hereinafter. No person shall conduct an operation pursuant to the authority of this certificate except in accordance with the standard and special provisions contained in this certificate, and such other requirements of the Federal Aviation Regulations not specifically waived by this certificate.

OPERATIONS AUTHORIZED

Unmanned Rocket Activities.

Location: Within a 3-nautical mile radius of GEP330013.8 (N45° 21' 10" W93° 29' 50").

Date: April 1, 2011 thru March 31, 2012

Time: 0800-1800 CDT (1300-2300Z)  
0800-1800 CST (1400-0000Z)

Alternate Date: N/A

Time: N/A

Altitude: Surface to 5,500 feet MSL (with call-in requests for higher altitudes)

LIST OF WAIVED REGULATIONS BY SECTION AND TITLE

FAR 101.25(b)(5) operations within five miles of any airport boundary, and FAR 101.25(b)(6) operations in controlled airspace.

### STANDARD PROVISIONS

1. A copy of the application made for this certificate shall be attached to and become a part hereof.
2. This certificate shall be presented for inspection upon the request of any authorized representative of the Administrator of the Federal Aviation Administration, or of any State or municipal official charged with the duty of enforcing local laws or regulations.
3. The holder of this certificate shall be responsible for the strict observance of the terms and provisions contained herein.
4. This certificate is nontransferable.

NOTE – This certificate constitutes a waiver of those Federal rules or regulations specifically referred to above. It does not constitute a waiver of any State law or local ordinance

### SPECIAL PROVISIONS

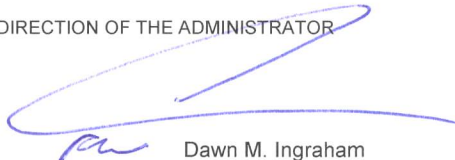
Special Provisions Nos. 1 to 6, inclusive, are set forth on the reverse side hereof.

This certificate is effective from 04/01/2011 to 03/31/2012, inclusive, and is subject to cancellation at any time upon notice by the Administrator or his authorized representative.

BY DIRECTION OF THE ADMINISTRATOR

Central Terminal Service Area

(Region)

  
Dawn M. Ingraham  
(Signature)

03/25/2011

(Date)

District Manager, Northern Lights District

(Title)

**Special Provisions for Certificate of Waiver or Authorization**  
**Issued To**  
**Carol Marple, Minnesota Amateur Spacemodeler Association (MASA)**  
**Near Nowthen, MN GEP330013.8**  
**April 1, 2011**

**Special Provision #1.** Notice requirements specified by 14 CFR 101.27 shall be made at least 24 hours but no more than 3 days in advance of each proposed launch. This notification shall be made to the Lockheed Martin Flight Service Station at (877) 487-6867.

The launch coordinator shall request that Lockheed Martin AFSS issue a Notice to Airman (NOTAM).

Below is an example of the NOTAM that will be issued by the Lockheed Martin AFSS:

!PNM GEP UNMANNED ROCKET 3 NMR GEP330014 5,500/BLW WEF 1004231300-1004232300

**Special Provision #2.** Real time telephone communication shall be effected with the Minneapolis Terminal Radar Approach Control (TRACON) as follows:

One hour before the first launch, the launch coordinator shall contact the Minneapolis TRACON Front Line Manager at (612) 713-4050 to confirm the intent to proceed with the launch. Minneapolis TRACON shall also be provided a telephone number where immediate and continuous coordination can be made with the launch coordinator in the event it becomes necessary for flight safety to halt or delay the launch. This telephone shall be monitored at all times, and the launch coordinator shall be immediately available in the event coordination becomes necessary.

**Special Provision #3.** No unmanned rocket shall exceed 5,500 feet MSL, with the exception of requests for higher altitudes if approved by the Minneapolis TRACON.

**Special Provision #4.** The holder of this authorization shall retain sole responsibility for adherence to applicable requirements of 14 CFR 101, the provisions of this Certificate of Waiver, and for the safeguarding of persons and property.

**Special Provision #5.** All persons connected with the unmanned rocket operations shall be familiar with the applicable requirements of 14 CFR 101 and this waiver with its Special Provisions.

**Special Provision # 6.** 14 CFR 101.25(b)(5) is waived under the condition that the waiver holder contacts any airport managers/owners within a 5-mile radius of the launch site and receives concurrence from those managers/owners.

**Department of Transportation  
Federal Aviation Administration**

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## **Central Altitude Reservation Function**

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The Central Altitude Reservation Function issues this sanction for the operation described on the CERTIFICATE OF WAIVER OR AUTHORIZATION issued to Carol Marple for operations located within a 1 NM radius of the GEP 330 degree radial 13.8 NM fix.

This sanction is valid for the effective period shown on the CERTIFICATE OF WAIVER OR AUTHORIZATION. This sanction is issued 03/25/11.

CB 11-038