



U.S. Department  
of Transportation

**Federal Aviation  
Administration**

Eastern Service Center

1701 Columbia Avenue  
College Park, Georgia 30337

February 2, 2021

Howard Greenblatt and Ken Blade  
Central Massachusetts Spacemodeling Society  
22 Coolidge Rd  
Wayland, MA 01778

Dear Mr. Greenblatt and Mr. Blade:

Thank you for informing the Federal Aviation Administration (FAA) of your intent to operate Class 2 amateur rockets in the vicinity of Amesbury, MA.

The enclosed Certificate of Waiver or Authorization honors your request to conduct unmanned amateur rocket operations. Please review the Special Provisions in Attachment 1 of the Certificate of Waiver or Authorization. To provide for an adequate level of flight safety for air traffic, real-time notification prior to and upon termination of operations is required to Boston Terminal Radar Approach Control as specified.

This Certificate of Waiver or Authorization is only for those regulations specifically identified and disposes the Federal Aviation Administration interest in the matter but should not be construed as superseding or invalidating any existing rules or regulations promulgated by any other federal, state, county, or municipal government, which may be required for this operation.

If you have any questions regarding this waiver, please contact Jerry L. Rutherford at [Jerry.ctr.Rutherford@faa.gov](mailto:Jerry.ctr.Rutherford@faa.gov), or (470) 925-8277.

Sincerely,

Matthew N. Cathcart  
Acting Manager, Operations Support Group  
Eastern Service Center

Enclosures

DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

**CERTIFICATE OF WAIVER OR AUTHORIZATION**  
**ESA-21020-RKT**

ISSUED TO

Howard Greenblatt and Ken Blade-Central Massachusetts Spacemodeling Society

ADDRESS

22 Coolidge Rd

Wayland, MA 01778

tel: (617) 797-1426

email: h.greenblatt@comcast.net

**This certificate is issued for the operations specifically described hereinafter. No person shall conduct any 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**

Launch of unmanned Class II rockets within a 1 nautical mile (NM) radius of 42° 51' 54" North, 70° 57' 26" West, not to exceed 4,900 feet Above Ground Level (AGL) or ~5,000 feet Mean Sea Level (MSL).

Approximately Lawrence (LWM) VOR/DME 054° radial, 9.6 NM. Sunrise to sunset.

**LIST OF WAIVED REGULATIONS BY SECTION AND TITLE**

**No part(s) of the Code of Federal Regulations are waived. Section 101.25 (e) (f) is authorized.**

**STANDARD PROVISIONS**

1. A copy of the application made for this certificate shall be attached and become a part hereof.
2. This certificate shall be presented for inspection upon the request of any authorized representative 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 of Authorization permits the holder to comply with restrictions as defined in Title 14 Code of Federal Regulation, Part 101, Subpart C- Amateur Rockets. It does not constitute a waiver of any State law or local ordinance.**

**SPECIAL PROVISIONS**

See "Special Provisions" attachment letter numbers 1 through 8 inclusive.

This certificate is effective **March 1, 2021** through **February 28, 2022** and is subject to cancellation at any time upon notice by the Administrator or his/her authorized representative.

**BY DIRECTION OF THE ADMINISTRATOR**

Air Traffic Organization/Eastern Service Center

February 2, 2021

Matthew N. Cathcart

Acting Manager, Operations Support Group


**CERTIFICATE OF WAIVER OR AUTHORIZATION**  
**ESA-21020-RKT**  
**ATTACHMENT 1**

**SPECIAL PROVISIONS**

1. Operator shall contact LEIDOS Flight Service Station at (877) 487-6867, at least 24 hours, but not more than 3 days, prior to conducting amateur rocket operations to request the issuance of a Notice to Airmen (NOTAM). Provide the following information:
  - a. Date and time of rocket activity.
  - b. Location: Within a 1 NM radius of 42° 51' 54" North, 70° 57' 26" West or the Lawrence VOR/DME (LWM) 054° Radial at 9.6 NM.
  - c. Affected altitudes: Not to exceed 4,900 feet AGL or ~5,000 feet MSL.
2. Certificate holder/operator shall contact Boston Terminal Radar Approach Control (A90) at (603) 594-5551, 1 hour prior to, again 15 minutes prior to, and upon termination of rocket operations.
3. Certificate holder/operator shall provide the Launch Control Officer (LCO) name and phone number for each day of operations. The LCO shall remain on site and available for the duration of each operation. The LCO is responsible for ensuring reliable communication exists between the launch site and A90. For this operation the LCO will be:

Howard Greenblatt (617) 797-1426 or designee.
4. The launch site will be identified as "**Amesbury.**"
5. Safety spotters must scan the sky prior to each launch and immediately notify the LCO to cease or hold the launch whenever an aircraft is in or approaching the launch area.
6. Certificate holder/operator shall immediately suspend/delay all launches if so directed by air traffic or security personnel. A90 is authorized to restrict/delay/terminate any launch at their discretion. The decision will not be subject to negotiation, compliance will be immediate, and continue until the certificate holder/operator is notified otherwise.
7. All personnel directly involved with amateur rocket launches shall be familiar with 14 CFR Part 101, Subpart C, provisions of the "Certificate of Waiver or Authorization", and this Special Provisions attachment. The certificate holder/operator will strictly adhere to all regulations, except those specifically waived. All equipment shall be maintained and operated in accordance with industry safety guidelines and established criteria.
8. No changes to the Certificate of Waiver or Authorization or Special Provisions may be made unless specifically coordinated with, and approved by, the Federal Aviation Administration, Eastern Service Center, Operations Support Group, Jerry L. Rutherford at Jerry.ctr.Rutherford@faa.gov, or (470) 925-8277 prior to the activity.

No certificate may be issued unless a completed application form has been received (14 C.F.R. 91. 101. and 105).

 <p>US Department of Transportation Federal Aviation Administration</p> <p><b>APPLICATION FOR CERTIFICATE OF WAIVER OR AUTHORIZATION</b></p>		From Approved: O.M.B. No.2120-0027 08/31/2008		
		<b>APPLICANTS - DO NOT USE THESE SPACES</b>		
		Region <b>ESC</b>	Date <b>2/1/21</b>	
		Action <input type="checkbox"/> Approved <input type="checkbox"/> Disapproved – "Explain under "Remarks"		
		Signature of authorized FAA representative <i>Jerry Rutherford</i>		
<b>INSTRUCTIONS</b>				
<p>Submit this application in triplicate (3) to any FAA Flight Standards district office.</p> <p>Applicants requesting a Certificate of Waiver or Authorization for an aviation event must complete all the applicable items on this form and attach a properly marked 7.5 series Topographic Quadrangle Map(s), published by the U.S. Geological Survey (scale 1:24,000), of the proposed operating area. The map(s) must include scale depictions of the flightlines, showlines, race courses, and the location of the air event control point, Police dispatch, ambulance, and fire fighting equipment. The applicant may also wish to submit photographs and scale diagrams as supplemental material to assist in the FAA's evaluation of a particular site. Application for a Certificate of Waiver or Authorization must be submitted 45 days prior to the requested date of the event.</p> <p>Applicants requesting a Certificate of Waiver or Authorization for activities other than an aviation event will complete items 1 through 10 only and the certification, item 17, on the reverse.</p>				
1. Name of organization <b>Central Massachusetts Spacemodeling Society (CMASS)</b>		2. Name of responsible person <b>Mr. Howard Greenblatt &amp; Mr. Kenn Blade</b>		
3. Permanent mailing address	House number and street or route number <b>22 Coolidge Rd</b>	City <b>Wayland</b>	State and ZIP code <b>MA, 01778</b>	
Telephone No. <b>817-797-1428 847-977-4151</b>				
4. State whether the applicant or any of its principal officers/owners has an application for waiver pending at any other office of the FAA. <b>No</b>				
5. State whether the applicant or any of its principal officers/owners has ever had its application for waiver denied, or whether the FAA has ever withdrawn a waiver from the applicant or any of its principal officers/owners. <b>No</b>				
6. FAR section and number to be waived <b>Waiver &amp; certificate of authorization per Section 101.3, Operation of unmanned "Class 2" rockets operated per 101.25</b>				
7. Detailed description of proposed operation (Attach supplement if needed) <b>Normal operations of High Power Class 2 rockets in accordance with the National Association of Rocketry Safety Code (please see attached).</b>				
8. Area of operation (Location, altitudes, etc.) <b>Amesbury, MA. (LWM) VOR/DME, 039 radial 09 DM, Lat: 42° 51' 54" N. Lon: 70° 57' 26" W. Rockets will not exceed 5000 Mean Sea Level (MSL)</b>				
9a. Beginning (Date and hour) <b>01/01/2021                      14:00</b>		b. Ending (Date and hour) <b>12/31/2021                      21:00</b>		
10. Aircraft make and model (a)	Pilot's Name (b)	Certificate number and rating (c)	Home address (Street, City, State) (d)	
N/A				

**ITEMS 11 THROUGH 16 TO BE FILLED OUT FOR AIR SHOW/AIR RACE WAIVER REQUESTS ONLY.**

11. The air event will be sponsored by:  
N/A

12. Permanent mailing address	House number and street or route number N/A	City	State and ZIP code	Telephone No.
-------------------------------	--	------	--------------------	---------------

13. Policing (Describe provisions to be made for policing the event.)  
N/A

14. Emergency facilities (Mark all that will be available at time and place of air event.)


Physician                       Fire truck                       Other - Specify \_\_\_\_\_  
 Ambulance                       Crash wagon                      \_\_\_\_\_

15. Air Traffic control (Describe method of controlling traffic, including provision for arrival and departure of scheduled aircraft.)  
N/A

16. Schedule of Events (include arrival and departure of scheduled aircraft and other periods the airport maybe open.)

Hour (a)	Date (b)	Event (c)
N/A		

*If sufficient space is not available, the entire schedule of events may be submitted on separate sheets, in the order and manner indicated above.*

Please Read  The undersigned applicant accepts full responsibility for the strict observance of the terms of the Certificate of Waiver or Authorization, and understands that the authorization contained in such certificate will be strictly limited to the above described operation.

17. Certification - I CERTIFY that the foregoing statements are true.

Date 01/01/2021	Signature of Applicant 
--------------------	---

Remarks  
The times in fields 9a and 9b are in Zulu (Greenwich mean time). The local start time is 10:00 AM EST/EDT and the end time is 17:00 EST/EDT.  
All operations will be conducted in accordance with the NAR Safety Codes and shall be under the control of experienced Range Safety and Launch Control Officers. A spotter will watch for aircraft entering the operations area and will temporarily suspend operations in this contingency.

## **Attachment for FAR 101.29 information**

### **CMASS - The Central Massachusetts SpaceModeling Society**

***The following is the rocket information attachment mentioned and provides the information requirements of FAR 101.29***

**101.29 (a)(1)** CMASS – The Central Massachusetts SpaceModeling Society (NAR Section 464) will be launching approximately forty (40) rockets each day of our weekend launch(s).

**101.29 (a)(2)** These rockets will be powered with commercial rocket motors utilizing Ammonium Perchlorate Composite Propellant (APCP) and hybrid rocket motors utilizing Nitrous Oxide as the oxidizer and a plastic or paper solid fuel grain.

**101.29 (a)(3)** The rockets will be ground launched from solid launchers that will maintain a vertical trajectory for the rocket as it leaves the launcher per NFPA 1127 and NAR safety code.

**101.29 (a)(4)** The rockets will contain a parachute, streamer, aero-breaking, or gliding recovery system that will return them safely to the ground per NFPA 1127 and NAR safety code.

**101.29 (a)(5)** The rockets will be operated below 4900 feet AGL (5000 feet MSL).

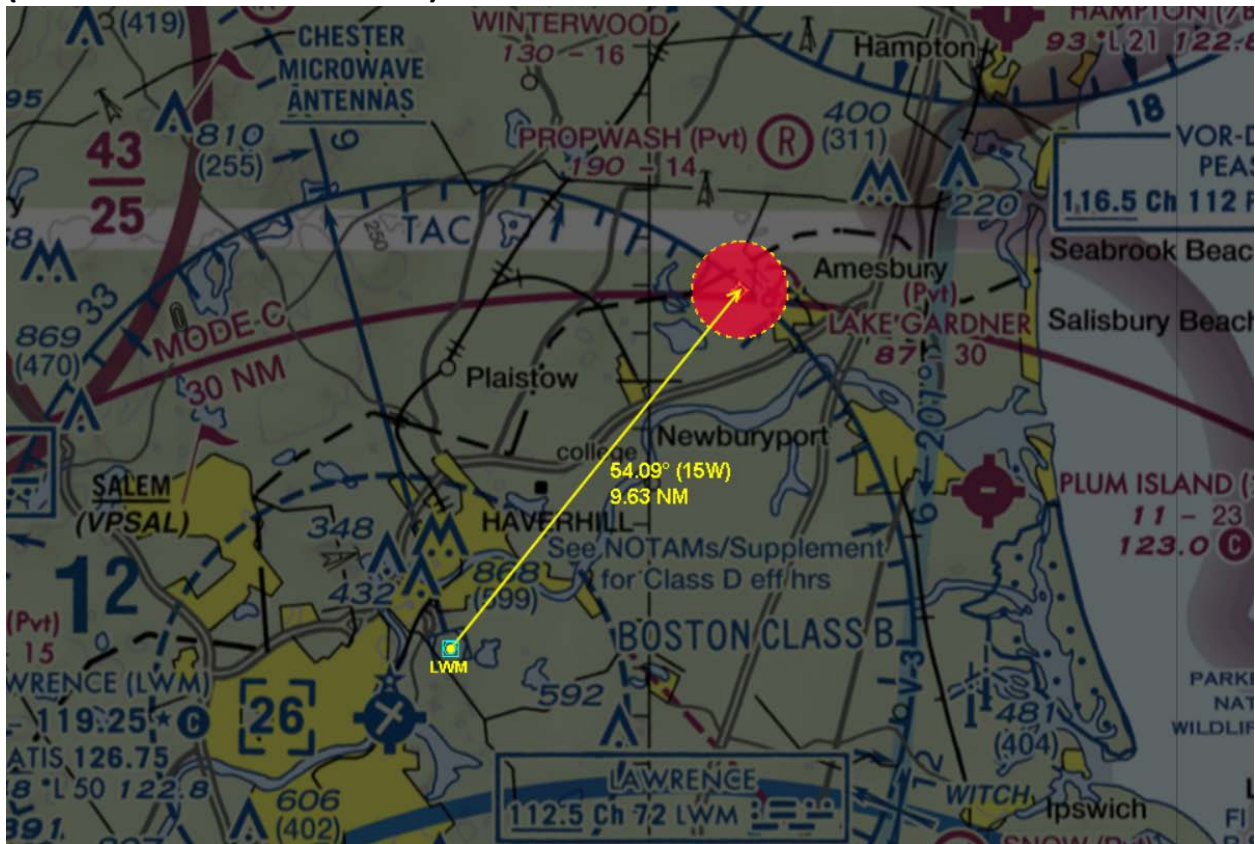
**101.29 (a)(6)** The operations launch site is located in Amesbury MA.  
Lat: 42°51'54"N. Long: 70° 57'26" W. Nearest NAVAID: Lawrence, MA, VOR/DME (LWM) 054° radial 09.6 DME

**101.29(a)(7)** The flight operations will be conducted per all details of FAR 101.23, FAR 101.25, as well as following the NAR high power rocket safety code.

We will be providing notification to the ATC per the requirements of FAR 101.27 and will be providing the following information:

- (a) The name and address of the person so designated as the event launch coordinator, whose duties include coordination of the required launch data estimates and coordinating the launch event. *(Mr. Howard Greenblatt & Mr. Kenn Blade – 22 Coolidge Rd, Wayland, MA - 617-797-1426 / 847-977-4151)*
- (b) Date and time the activity will begin. *(Weekends between 1/01/2021 and 12/31/2021 starting at 14:00:00 Zulu)*
- (c) Radius of the affected area on the ground in statute miles. *(One mile radius)*
- (d) Location of the center of the affected area in latitude and longitude coordinates. *(Lat - 42°51'54"N. Lon - 70° 57'26" W)*
- (e) Highest affected altitude. *(5000 MSL, 4900 AGL)*
- (f) Duration of the activity. *(Seven hours)*
- (g) Any other pertinent information requested by the ATC facility.

Rocket launches not to exceed 4,900 ft. AGL or ~5,000 ft. MSL  
(site elevation ~ 120 ft. MSL)



Airports or Heliports within 5 NM

