



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

Eastern Service Center

1701 Columbia Avenue
College Park, Georgia 30337

July 23, 2018

Sheri Ann Palazzo
Altaeros Energies Inc.
24 Park Street, Suite 10
Somerville, MA 02143

Dear Mr. Palazzo:

Thank you for informing us of your intent to operate a moored balloon in the vicinity of Fremont, NH.

The enclosed Certificate of Waiver or Authorization honors your request for a waiver to Title 14 of the Code of Federal Regulations, Part 101, Subpart B, 101.13 (a)(1), 101.13(a)(3), 101.13(a)(4) and 101.17. 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, or (404) 305-5574.

Sincerely,

Ryan W. Almasy
Manager, Operations Support Group

Enclosures

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

CERTIFICATE OF WAIVER OR AUTHORIZATION
ESA-18018-MB

ISSUED TO

Sheri Ann Palazzo-Altaeros Energies Inc.

ADDRESS

24 Park Street, Suite 10
Somerville, MA 02143

tel: (978) 771-0366

email: joe.anderson@capitolairspace.com

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

Operation of a moored balloon within a .2 nautical mile radius of Latitude 42° 58' 49.6" North, Longitude 71° 06' 44.3" West, not to exceed 499 feet Above Ground Level (AGL) or approximately 700 feet Mean Sea Level (MSL). Manchester VOR/DME (MHT) 074° radial, 13.2 nautical miles.

LIST OF WAIVED REGULATIONS BY SECTION AND TITLE

14 CFR Part 101.1, Subpart B, 101.13 (a) (1) Less than 500 feet from the base of any cloud. 101.13(a)(3) From an area where the ground visibility is less than three miles. 101.13(a)(4) Within five miles of the boundary of any airport, 101.17 Lighting and marking requirements.

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 B- Moored Balloons and Kites. 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 **September 1, 2018** through **August 31, 2019** 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 Area

July 23, 2018



Ryan W. Almasy

Manager, Operations Support Group

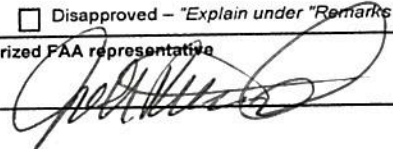
CERTIFICATE OF WAIVER OR AUTHORIZATION
ESA-18018-MB
ATTACHMENT 1

SPECIAL PROVISIONS

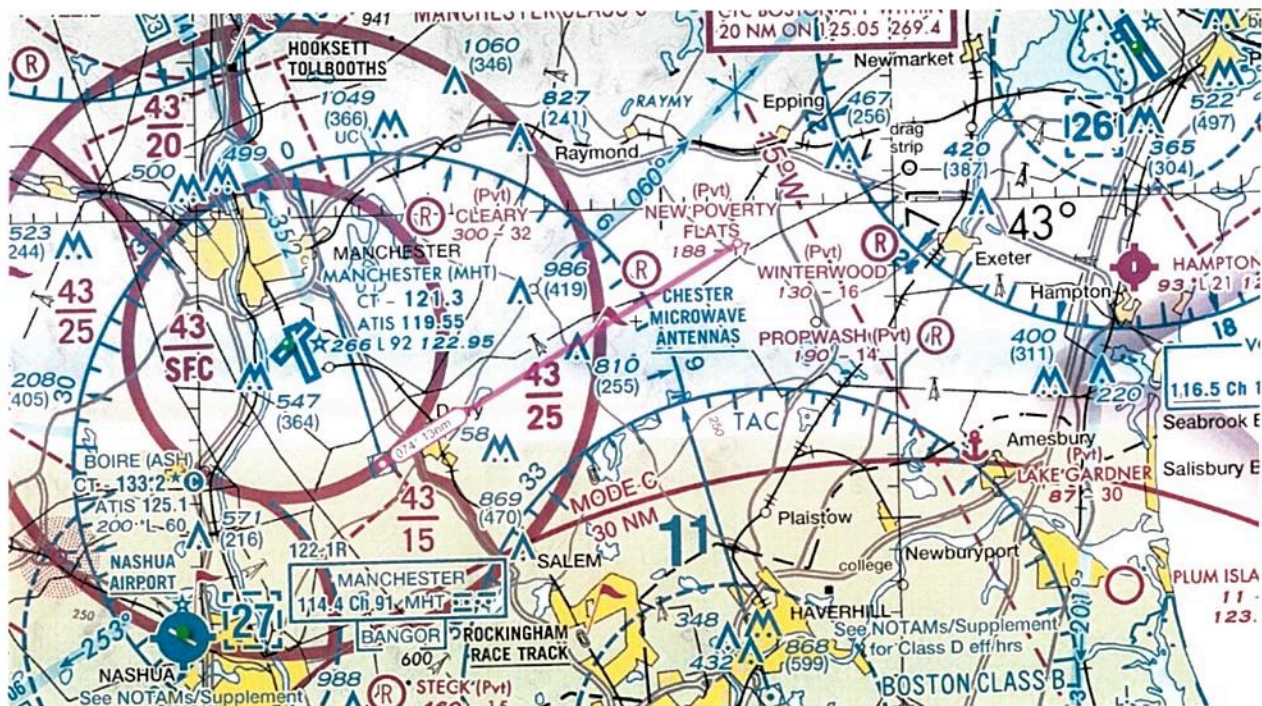
1. Operator shall contact Leidos Flight Service Station at (877) 487-6867, at least 24 hours, but not more than 3 days, prior to conducting balloon operations to request the issuance of a Notice to Airmen (NOTAM). Provide the following information:
 - a. Date and time of balloon activity.
 - b. Location of operation: Within a .2 nautical mile radius of Latitude 42° 58' 49.6" North, Longitude 71° 06' 44.3" West or the Manchester VOR/DME, (MHT) 074° Radial at 13.2 nautical miles.
 - c. Affected altitudes: Not to exceed 499 feet AGL or approximately 700 feet MSL.
2. In the event of any issue or malfunction such as, the balloon escaping its moorings or other operational issue affecting safety of flight, the Certificate holder/operator shall immediately contact Boston Terminal Radar Approach Control (A90) at (603) 594-5551.
3. While this certificate waives the requirement to Part 101.17, primarily for the tethers, the aerostat will be lighted. During the testing and development phase, the FAA Technical Center will be evaluating the conspicuity of the proposed lighting for the aerostat.
4. Certificate holder/operator shall provide the point of contact (POC) name and phone number for each day of operations. The POC or designee shall remain on site and available for the duration of each operation. The operator is responsible for ensuring reliable communication exists between the site and A90. For this operation the POC will be:

Sheri Ann Palazzo (978) 771-0366 or designee.
5. The site will be identified as "**Fremont.**"
6. Certificate holder/operator shall immediately suspend/delay all operations if so directed by air traffic or security personnel. A90 is authorized to restrict/delay/terminate any operation(s) 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 balloon operations shall be familiar with 14 CFR Part 101, Subpart B, 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 (404) 305-5574 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).

 US Department of Transportation Federal Aviation Administration APPLICATION FOR CERTIFICATE OF WAIVER OR AUTHORIZATION		From Approved: O.M.B. No.2120-0027 10/31/2015	
		APPLICANTS - DO NOT USE THESE SPACES	
		Region ESC	Date 7-5-18
		Action ☐ Approved ☐ Disapproved – "Explain under "Remarks" Signature of authorized FAA representative 	
INSTRUCTIONS			
Submit this application in triplicate (3) to any FAA Flight Standards district office. 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. 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.			
1. Name of organization Altaeros Energies Inc.		2. Name of responsible person Sheri Ann Palazzo	
3. Permanent mailing address	House number and street or route number 24 Park Street, Suite 10	City Somerville	State and ZIP code MA 02143
Telephone No. (978) 771-0366			
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. Waiver for same location has previously been submitted to Eastern Service Center and coordinated with Jerry Rutherford.			
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.			
6. FAR section and number to be waived 14 CFR Part 101.13(a)(1); Part 101.13(a)(2); Part 101.13(a)(3); Part 101.13(a)(4) [private airports]; Part 101.17			
7. Detailed description of proposed operation (Attach supplement if needed) A test facility for moored aerostats with three independent tethers that connect to independent winches on a moored platform. Three independent tethers greatly reduces the likelihood of aerostat breaking free of mooring; rapid deflation devices fitted for backup. Maximum balloon size anticipated to be 110' long and 50' tall. Based on recurring utilization of the test platform, coordination may be streamlined with the controlling/notification facility. Altaeros Energies is in the process of coordinating with Jim Patterson (Manager, Airport Safety R&D Section, FAA Technical Center, ANG-E261) to identify the appropriate daytime and nighttime conspicuity for this platform (including the aerostat and tethers).			
8. Area of operation (Location, altitudes, etc.) 42°58'49.6"N, 71°06'44.3"W - surface to 499 feet AGL (or 674 feet AMSL based on USGS elevation data)			
9a. Beginning (Date and hour) 09/01/2018		b. Ending (Date and hour) 08/31/2019	
10. Aircraft make and model (a)	Pilot's Name (b)	Certificate number and rating (c)	Home address (Street, City, State) (d)

▶ ITEMS 11 THROUGH 16 TO BE FILLED OUT FOR AIR SHOW/AIR RACE WAIVER REQUESTS ONLY.				
11. The air event will be sponsored by:				
12. Permanent mailing address	House number and street or route number	City	State and ZIP code	Telephone No.
13. Policing (Describe provisions to be made for policing the event.)				
14. Emergency facilities (Mark all that will be available at time and place of air event.)				
☐ Physician ☐ Ambulance ☐ Fire truck ☐ Crash wagon ☐ Other - Specify _____ _____				
15. Air Traffic control (Describe method of controlling traffic, including provision for arrival and departure of scheduled aircraft.)				
16. Schedule of Events (include arrival and departure of scheduled aircraft and other periods the airport maybe open.)				
Hour (a)	Date (b)	Event (c)		
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	Signature of Applicant			
7/3/18				
Remarks				



Enter the Latitude:

42:58:49.6N

Submit

Clear

Enter the Longitude:

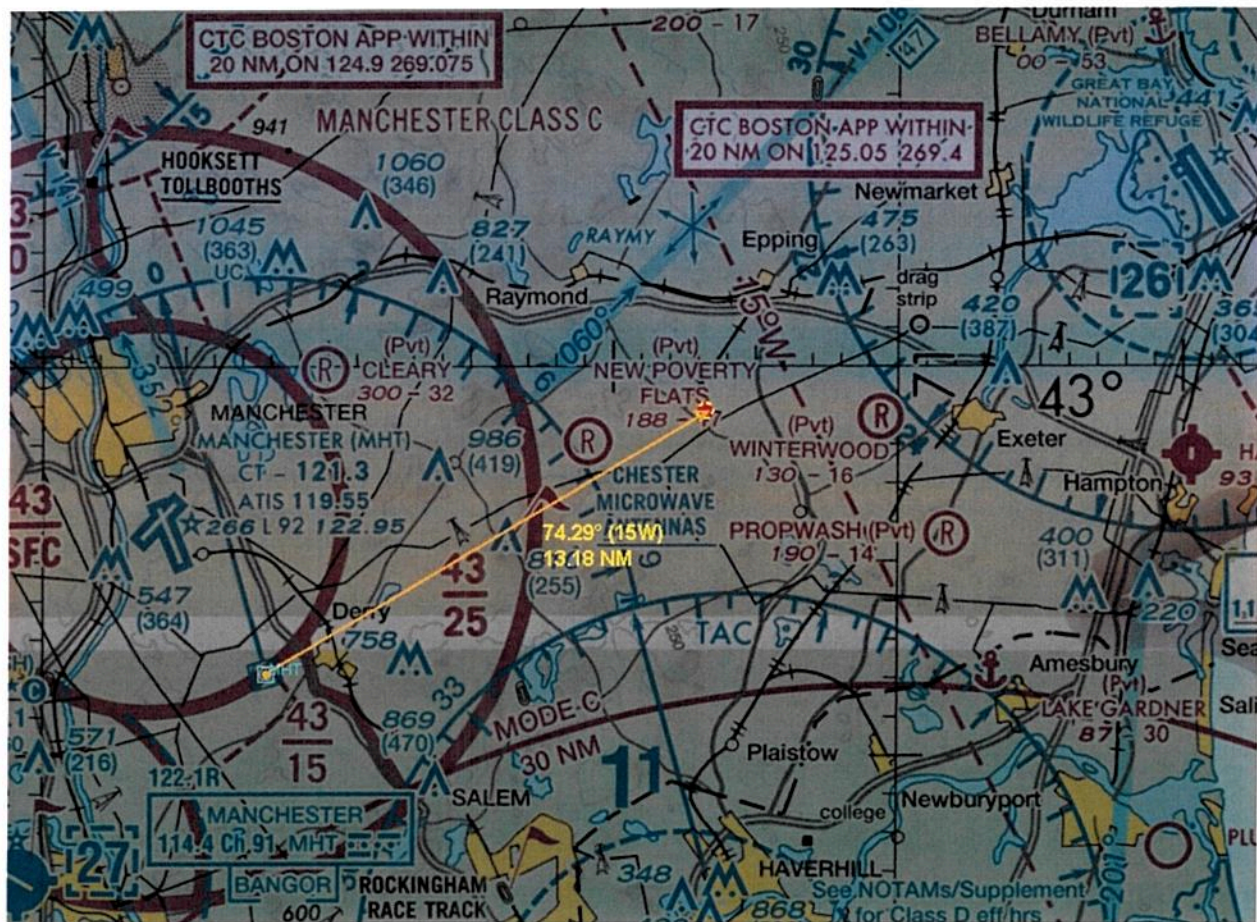
071:06:44.3W

Nearby FRD's

MHT074013.2	MANCHESTER
PSM259013.8	PEASE
LWM012014.4	LAWRENCE
CON140024.9	CONCORD

Site Elevation: 175 feet MSL + 499 AGL = Operational Altitude: Appx. 675 feet MSL





UTM 19 T 327772 4760808 ok	dd.ddddd° Latitude: 42.98044 °N Longitude: -71.11231 °E ok	dd° mm.mmm' 42° 58.826' N 71° 6.739' W ok	dd° mm' ss.s" 42° 58' 49.6" N 71° 6' 44.3" W ok
postal address or point of interest (poi) ok		elevation in m ok 53.1	WP01-A edit 01-A

