



US Department
of Transportation
Federal Aviation
Administration

APPLICATION FOR AIRWORTHINESS CERTIFICATE

INSTRUCTIONS — Print or type. Do not write in shaded areas. These are for FAA use only. Submit original only to an authorized FAA Representative. If additional space is required, use an attachment. For special flight permits complete Sections II and VI or VII as applicable.

I. AIRCRAFT DESCRIPTION	1. REGISTRATION MARK N18263	2. AIRCRAFT BUILDER'S NAME (Manufacturer) Luce	3. AIRCRAFT MODEL DESIGNATION Buttercup	4. YR MFR 2001	FAA CODING
	5. AIRCRAFT SERIAL NO 001X	6. ENGINE BUILDER'S NAME (Manufacturer) Cont. 0200	7. ENGINE MODEL DESIGNATION 0-200A		
	8. NUMBER OF ENGINES 1	9. PROPELLER BUILDER'S NAME (Manufacturer) Aymar - DeMuth	10. PROPELLER MODEL DESIGNATION 66-55		
					11. AIRCRAFT IS (Check if applicable) ☐ EXPORT ☒ IMPORT

II. CERTIFICATION REQUESTED	APPLICATION IS HEREBY MADE FOR: (Check applicable items)										
	A	1	STANDARD AIRWORTHINESS CERTIFICATE (Indicate category)		NORMAL	UTILITY	ACROBATIC	TRANSPORT	GLIDER	BALLOON	
	B	SPECIAL AIRWORTHINESS CERTIFICATE (Check appropriate items)									
		2	LIMITED								
		5	PROVISIONAL (Indicate class)								
		3	RESTRICTED (Indicate operations to be conducted)								
		4	EXPERIMENTAL (Indicate operations to be conducted)								
		8	SPECIAL FLIGHT PERMIT (Indicate operation to be conducted; then complete Section VI or VII as applicable on reverse side)								
		1	CLASS I								
		2	CLASS II								
	1	AGRICULTURE AND PEST CONTROL		2	AERIAL SURVEYING		3	AERIAL ADVERTISING			
	4	FOREST (Wildlife conservation)		5	PATROLLING		6	WEATHER CONTROL			
	7	CARRIAGE OF CARGO		8	OTHER (Specify)						
	1	RESEARCH AND DEVELOPMENT		2	AMATEUR BUILT		3	EXHIBITION			
	4	RACING		5	CREW TRAINING			MKT SURVEY			
	0	TO SHOW COMPLIANCE WITH FAR									
	1	FERRY FLIGHT FOR REPAIRS, ALTERATIONS, MAINTENANCE OR STORAGE									
	2	EVACUATE FROM AREA OF IMPENDING DANGER									
	3	OPERATION IN EXCESS OF MAXIMUM CERTIFICATED TAKE-OFF WEIGHT									
	4	DELIVERING OR EXPORT		5	PRODUCTION FLIGHT TESTING						
	6	CUSTOMER DEMONSTRATION FLIGHTS									
C	6	MULTIPLE AIRWORTHINESS CERTIFICATE (Check ABOVE Restricted Operation and Standard or Limited, as applicable)									

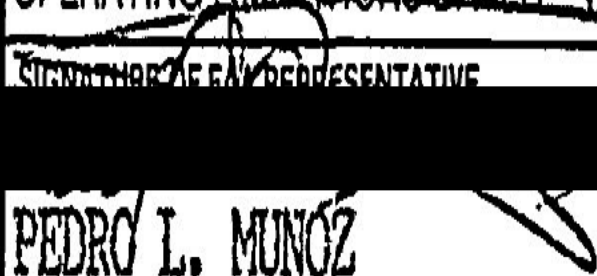
III. OWNER'S CERTIFICATION	A. REGISTERED OWNER (As shown on certificate of aircraft registration)		IF DEALER, CHECK HERE ☐	
	NAME EARL J. Luce Jr.		ADDRESS 	
	B. AIRCRAFT CERTIFICATION BASIS (Check applicable blocks and complete items as indicated)			
	AIRCRAFT SPECIFICATION OR TYPE CERTIFICATE DATA SHEET (Give No and Revision No.)		AIRWORTHINESS DIRECTIVES (Check if all applicable AD's complied with and give latest AD No.)	
	AIRCRAFT LISTING (Give page number(s))		SUPPLEMENTAL TYPE CERTIFICATE (List number of each STC incorporated)	
	C. AIRCRAFT OPERATION AND MAINTENANCE RECORDS			
	CHECK IF RECORDS IN COMPLIANCE WITH FAR 91.173 ☐		TOTAL AIRFRAME HOURS — 0 —	
			3 EXPERIMENTAL ONLY (Enter hours flown since last certificate issued or renewed) — 0 —	
	D. CERTIFICATION — I hereby certify that I am the registered owner (or his agent) of the aircraft described above, that the aircraft is registered with the Federal Aviation Administration in accordance with Section 501 of the Federal Aviation Act of 1958, and applicable Federal Aviation Regulations, and that the aircraft has been inspected and is airworthy and eligible for the airworthiness certificate requested.			
	DATE OF APPLICATION 12-11-01		NAME AND TITLE (Print or type) EARL J. Luce Jr. — owner	
		SIGNATURE 		

IV. INSPECTION AGENCY VERIFICATION	A. THE AIRCRAFT DESCRIBED ABOVE HAS BEEN INSPECTED AND FOUND AIRWORTHY BY (Complete this section only if FAR 21.183(d) applies)			
	2	FAR PART 121 OR 127 CERTIFICATE HOLDER (Give Certificate No.)	3	CERTIFICATED MECHANIC (Give Certificate No.)
	6	CERTIFICATED REPAIR STATION (Give Certificate No.)		
	5	AIRCRAFT MANUFACTURER (Give name of firm)		
	DATE _____ TITLE _____ SIGNATURE _____			

V. FAA REPRESENTATIVE CERTIFICATION	(Check ALL applicable blocks in items A and B)		☒ THE CERTIFICATE REQUESTED		
	A. I find that the aircraft described in Section I or VII meets requirements for		4 AMENDMENT OR MODIFICATION OF CURRENT AIRWORTHINESS CERTIFICATE		
	B. Inspection for a special flight permit under Section VII was conducted by		FAA INSPECTOR		
			FAA DESIGNEE		
			CERTIFICATE HOLDER UNDER		
DATE 12-18-01		DISTRICT OFFICE AEX-PS00-23		DESIGNEE'S SIGNATURE AND NO 4	
		FAA INSPECTOR'S SIGNATURE Pedro L. Munoz		1	

VIII. AIRWORTHINESS DOCUMENTATION (FAA use only)		VII. SPECIAL FLIGHT PERMIT PURPOSES OTHER THAN PRODUCTION FLIGHT TEST		VI. PRODUCTION FLIGHT TESTING	
☒	A. Operating Limitations and Markings in Compliance with FAR 91.31 as Applicable				A. MANUFACTURER
☒	B. Current Operating Limitations Attached				NAME ADDRESS
☒	C. Data, Drawings, Photographs, etc. (Attach when required)				
☒	D. Current Weight and Balance Information Available if Aircraft				B. PRODUCTION BASIS (Check applicable item)
☒	E. Major Repair and Alteration FAA Form 337 (Attach when required)				
☒	F. This Inspection Recorded in Aircraft Records				C. GIVE QUANTITY OF CERTIFICATES REQUIRED FOR OPERATING NEEDS
☒	J. Current Airworthiness Certificate Issued in Accordance with FAR 21.191(g)				APPROVED PRODUCTION INSPECTION SYSTEM
☒	I. Previous Airworthiness Certificate Issued in Accordance with FAR 21.191(g)				TYPE CERTIFICATE ONLY
☒	H. Foreign Airworthiness Certification for Import Aircraft (Attach when required)				PRODUCTION CERTIFICATE (Give production certificate number)
☒	G. Statement of Conformity FAA Form 8130-9 (Attach when required)				
F. CERTIFICATION — I hereby certify that I am the registered owner (or his agent) of the aircraft described above, that the aircraft is registered with the Federal Aviation Administration in accordance with Section 501 of the Federal Aviation Act of 1958, and applicable Federal Aviation Regulations, and that the aircraft has been inspected and is airworthy for the flight described. DATE _____ NAME AND TITLE (Print or type) _____ SIGNATURE _____					
E. THE FOLLOWING RESTRICTIONS ARE CONSIDERED NECESSARY FOR SAFE OPERATION (Use attachment if necessary):					
D. THE AIRCRAFT DOES NOT MEET THE APPLICABLE AIRWORTHINESS REQUIREMENTS AS FOLLOWS					
C. CREW REQUIRED TO OPERATE THE AIRCRAFT AND ITS EQUIPMENT					
B. DESCRIPTION OF FLIGHT CUSTOMER DEMONSTRATION FLIGHTS ☐ (Check if applicable) FROM _____ TO _____ VIA _____ DEPARTURE DATE _____ DURATION _____					
A. DESCRIPTION OF AIRCRAFT REGISTERED OWNER _____ BUILDER (Make) _____ MODEL _____ REGISTRATION MARK _____					

UNITED STATES OF AMERICA
DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
SPECIAL AIRWORTHINESS CERTIFICATE

A	CATEGORY/DESIGNATION	EXPERIMENTAL	
	PURPOSE	OPERATING AMATEUR-BUILT AIRCRAFT	
B	MANUFACTURER	NAME	N/A
		ADDRESS	N/A
C	FLIGHT	FROM	N/A
		TO	N/A
D	N- 18263	SERIAL NO.	001X
	BUILDER EARL JAMES LUCE JR.	MODEL	BUTTERCUP
E	DATE OF ISSUANCE 12/14/2001	EXPIRY	UNLIMITED
	OPERATING LIMITATIONS DATED 12/14/2001 ARE A PART OF THIS CERTIFICATE		
	SIGNATURE OF FAA REPRESENTATIVE  PEDRO L. MUNOZ	DESIGNATION OR OFFICE NO. AEA-FSDO-23	

Any alteration, reproduction or misuse of this certificate may be punishable by a fine not exceeding \$1,000 or imprisonment not exceeding 3 years, or both. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS.

A	This airworthiness certificate is issued under the authority of the Federal Aviation Act of 1958 and the Federal Aviation Regulations (FAR).
B	This airworthiness certificate authorizes the manufacturer named on the reverse side to conduct production flight tests, and only production flight tests, of aircraft registered in his name. No person may conduct production flight tests under this certificate: (1) Carrying persons or property for compensation or hire; and/or (2) Carrying persons not essential to the purpose of the flight.
C	This airworthiness certificate authorizes the flight specified on the reverse side for the purpose shown in Block A.
D	This airworthiness certificate certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to meet the requirements of the applicable FAR. The aircraft does not meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention On International Civil Aviation. No person may operate the aircraft described on the reverse side: (1) except in accordance with the applicable FAR and in accordance with conditions and limitations which may be prescribed by the Administrator as part of this certificate; (2) over any foreign country without the special permission of that country.
E	Unless sooner surrendered, suspended, or revoked, this airworthiness certificate is effective for the duration and under the conditions prescribed in FAR Part 21, Section 21.181 or 21.217.



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

Flight Standards District Office, EA23
One Airport Way, Suite 110
Rochester, NY 14454
(585) 436-3880, Fax: (585) 436-2322

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

December 18, 2001

Mr. Earl J. Luce Jr.

Dear Mr. Luce:

Personnel of this office conducted an initial aircraft certification inspection on your registered aircraft N18263, Buttercup, Serial No. 001X. This letter is a reminder of the discrepancies found during the certification inspection. The discrepancies listed below were noted and must be corrected before the first flight.

1. The aircraft windshield installation is not complete.
2. The engine baffles are missing rubber seals.
3. The battery cable on the fire wall is chafing the cabin heat cable.
4. Cylinder #1 and #3 bottom spark plug harnesses are chafing the oil pressure sensor switch.
5. Cylinder #3 top spark plug wire is chafing cylinder#1 top spark plug.
6. The engine breather line outlet is in line with the engine exhaust pipes.
7. Two sets of bolts on the propeller are not safetied.
8. The brake system need to be serviced and properly checked for operation.
9. The carburetor heat cable is chafing the main fuel line on the left side of the engine.
10. The left wing leading edge is not finished.
11. Improper wings bolts are installed on the aircraft.
12. Improper wing struts bolts are installed on the aircraft.
13. The pitot system pressure line near the left wing strut is missing.

14. Improper bolts are installed on the wings flight controls.
15. Improper bolts are installed on the elevator.
16. The flight controls do not have drain holes.
17. There is a seal missing from the fuel tank filler neck.
18. Both shoulder harnesses are not secured properly.
19. Both cabin lights are not secured properly.
20. The electrical wire bundle is chafing the top of the fuel tank.

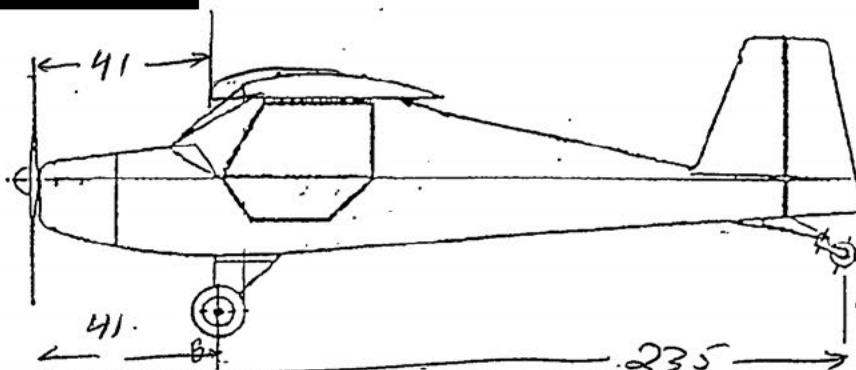
Please inform this office upon completion of the above discrepancies. A follow-up inspection will be conducted at your convenience. If you have any questions regarding this matter, feel free to contact this office. The office hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday and the telephone number is [REDACTED]

Sincerely,

[REDACTED]
Pedro L. Muñoz
Aviation Safety Inspector, A/W

WEIGHT AND BALANCE FORM

Owner's Name Enol J. Luce Jr. Aircraft N. 18263 Date 12-14-01
 Address [REDACTED]



A—Datum for Horizontal Arm as defined by designer or builder

B—Arm: Main Wheel Centerline in inches

C—Arm: Auxiliary Wheel Centerline in inches

Item	Scale	Tare	Lbs. Net	Inches Arm	In. Lbs. Moment
Left Wheel	373		373	41	15293
Right Wheel	386		386	41	15826
Auxiliary Wheel	60		60	235	14100
Less Oil	—				
Fixed Ballast	—				

Empty Weight 819 Total Moment 45219 in. lbs.
 Empty C.G. = $\frac{\text{Total Moment}}{\text{Empty Weight}} = \frac{45219}{819} = 55.2$ inches

FORWARD AND REARWARD CG EXTREMES

Item	Weight	Arm	Moment	Weight	Arm	Moment
Aircraft EW	819	55.2	45219	819	55.21	45219
Oil	9.37	17.75	163.3	8.37	17.75	163.3
Pilot	120	57	6840	215	57	12255
Passenger	—	—	—	200	57	11400
Fuel 20 gal	120	36	4320	(3 gal) 18	36	648
Baggage	—	—	—	50	88	4400
Totals	1067.4	X	56542.3	1310.4	X	74085.3

Forward CG 1 = 52.92 in.

Rearward CG 1 = 56.5 in.

Maximum allowable weight is: 1350 lbs. CG limits are
15% or 49.1 in. Forward CG, and 30% or 57.2 in. Rearward CG

Equipment installed when weighed is as described in Aircraft Manual, Equipment List dated _____
 _____, except for the following items.

Item	Inches Arm	Lbs. Wt.	In. Lbs. Moment
<u>N/A</u>			



General Information

Engine Model	Chevy. 0-200 H
Engine Horsepower	100 HP
Propeller	66-55
Cruise Speed	135
Top Speed	155
Landing Speed	30 mph

Statistical Data

Wing Span	19'-5" (approx.)
Wing Area	103 sq. ft.
Aircraft Length	19'-6" (approx.)
Height	72" ⁿ
Gross Weight	1350
Empty Weight	819
Payload Weight	531
Net Capacity	20 gals.
Number of Seats	2
Cabin Width	38"

Performance

Takeoff distance	$\pm 100'$
Landing Distance	$\pm 100'$
Maximum Speed	170 VNE
Cross Speed	135
Wing (clean)	40 mph
Rate of Climb	~ 300 5000 FPM.



Open Access

Wittman's
DISCOUNT

500

PROFESSOR DR. GERTH VON FÜRSTENBERG

1000

Name: Earl V. Luce Jr.

Address:

City, ST, Zip:

DATE:

12-11-01

TO:

Federal Aviation Administration
Flight Standards District Office, EA-23
One Airport Way, Suite 110
Rochester, NY 14624

FROM:

Earl Luce

PHONE:

I submit this application for the following aircraft to be examined for an airworthiness certificate in the experimental category for the purpose of Educational and Recreational Flying in accordance with the Federal Aviation Regulations pertaining to such aircraft. Flight tests are to be conducted in accordance with Federal Aviation Regulation Part 91, Section 91.98 and 41.92.

Aircraft Make and Model:

BUTTERCUP

Registration Number:

N18263

Signed:

[Signature]



U.S. Department
of Transportation
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Administration

ELIGIBILITY STATEMENT AMATEUR-BUILT AIRCRAFT

Instructions: Print or type all information except signature. Submit original to an authorized FAA representative. Applicant completes Section I thru III. Notary Public Completes Section IV.

I. REGISTERED OWNER INFORMATION

Name(s) Earl J. Luce Jr.
Address(es) [REDACTED]
Telephone No.(s) [REDACTED] [REDACTED]
Residence Business

II. AIRCRAFT INFORMATION

Model Buttercup Engine(s) Make Continental O-200
Assigned Serial No. 001X Engine(s) Serial No.(s) 66223-7-A
Registration No. N 18263 Prop./Rotor(s) Make Aymur-DeMuth
Aircraft Fabricated: Plan ☒ Kit ☐ Prop./Rotor(s) Serial No.(s) _____

III. MAJOR PORTION ELIGIBILITY STATEMENT OF APPLICANT

I certify the aircraft identified in Section II above was fabricated and assembled by Earl J. Luce Jr.

Name of Person(s) (Please Print)

for my (their) education or recreation. I (we) have records to support this statement and will make them available to the FAA upon request.

— NOTICE —

Whoever in any matter within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals or covers up by any trick, scheme, or device a material fact, or who makes any false, fictitious or fraudulent statements or representations, or makes or uses any false writing or document knowing the same to contain any false, fictitious or fraudulent statement or entry, shall be fined not more than \$10,000 or imprisoned not more than 5 years, or both (U.S. Code, Title 18, Sec. 1001.)

APPLICANT'S DECLARATION

I hereby certify that all statements and answers provided by me in this statement form are complete and true to the best of my knowledge, and I agree that they are to be considered part of the basis for issuance of any FAA certificate to me. I have also read and understand the Privacy Act statement that accompanies this form.

Signature of Applicant (Ink) [REDACTED]

Date

12-13-01

IV. NOTARIZATION STATEMENT

Renea M. Schleede
Notary Public, State of New York
Qualified in Monroe County
Commission Expires March 30, 2002

