Amateur-Built Fabrication and Assembly Checklist (2011) Fixed Wing

Name(s)	SONEX AIRCRAFT LLC
Address:	511 AVIATION RD. OSHKOSH, WI 54902
Aircraft Model:	WAIEX With Assy Spar and Matched Holes
D /	E/0/2012
Date:	7/9/2013
Remarks:	
WAIEX PACKIN	G LIST # WIX-KIT-ALL-MHP-070813

NOTE: This checklist is only applicable to fixed wing aircraft. Evaluation of other types of aircraft (i.e., rotorcraft, balloons, lighter than air) will not be accomplished with this form.

NOTE: This checklist is invalid for and will not be used to evaluate an altered or modified type certificated aircraft with the intent to issue an Experimental Amateurbuilt Airworthiness Certificate. Such action violates FAA policy and DOES NOT meet the intent of § 21.191(g).

Instructions For Using The Amateur-Built Fabrication and Assembly Checklist (2011):

A point (each task equals 1 point) can be divided over multiple categories (Manufacturer, Commercial Assistance, Amateur Builder Assembly and Amateur Builder Fabrication) into 1/10 fractions. A Manufacturer may be a kit manufacturer, a component manufacturer or a part(s) manufacturer. Commercial assistance (for hire or compensation) may include assistance provided by kit manufacturers, commercial assistance centers, individuals (e.g. A& P mechanics or avionics technicians).

For example, 0.5 (half point) can be assigned to the Manufacturer, 0.3 (3/10 - 3 tenths) as Commercial Assistance, 0.2 to the Amateur Builder as Fabrication, for a total of 1 point.

Enter "N/A" in any box where a listed task is not applicable to the particular aircraft being evaluated. Use the "Add item" boxes at the end of each section to add applicable unlisted tasks and award credit.

		A	В	C	D
FAF	BRICATION AND ASSEMBLY TASKS	Mfr Kit/Part/	Commercial	Am-Builder	Am-Builder
		Component	Assistance	Assembly	Fabrication
Tasl	K Fuselage – 22 Listed Tasks				
#					
F1	1 Fabricate Longitudinal Members	0.5			0.5
F2	Fabricate Composite Cores or Shells, Skins	N/A			
F3	1 Fabricate Bulkheads or Cross members	0.7			0.3
F4	1 Fabricate Flt Control Push Pull Tubes/Cables	0.9			0.1
F5	1 Assemble Flt Control Push Pull Tubes/Cables	0		1.0	
F6	1 Assemble Fuselage Basic Structure	0		1.0	

		A	В	C	D
FABRICATION AND ASSEMBLY TASKS		Mfr Kit/Part/	Commercial	Am-Builder	Am-Builder
		Component	Assistance	Assembly	Fabrication
F7 1 Fabricate F	Brackets and Fittings	0.6			0.4
F8 1 Assemble 1	Brackets and Fittings	0		1.0	
F9 1 Fabricate (Cables, Wire, and Lines	1			0.0
F10 1 Assemble	Cables, Wire, and Lines	0		1.0	
F11 Fabricate F	Fuselage Fuel System Components	*			*
F12 Assemble 1	Fuselage Fuel System Components	*		*	
F13 1 Fabricate F	Fuselage Covering or Skin	0.8			0.2
	Fuselage Covering or Skin	0		1.0	
F15 1 Fabricate V	Vindshield	0.3			0.7
	Windshield to Fuselage	0		1.0	
F17 Fabricate V	Vindows	N/A			
F18 Assemble	Windows to Fuselage	N/A			
	Doors/Canopy	0.3			0.7
	Doors/Canopy to Fuselage	0		1.0	
F21 Fabricate N	Mast and Strut Assembly	N/A			
	Mast and Strut Assembly	N/A			
F23 1 Add Fab it	em: Fabricate Fuel Tank	0.9			0.1
F24 1 Add Assy	item: Assembly of Fuel Tank	0		1.0	
F25 Add Fab item:					
F26 Add Assy	item:				
Total # of Fuselage Tasks	Fuselage Subtotal	Mfr Kit/Part/ Component	Commercial Assistance	Am-Builder Assembly	Am-Builder Fabrication
17	Fuselage Total Points >	6.0	0.0	8.0	3.0

Fuselage Comments: F11 and F12 Not evaluated not part of Kit but essential for flight.	F2 credited on F13.
--	---------------------

EADDICATION AND ACCEMBLY TACKS		A	В	C	D
	FABRICATION AND ASSEMBLY TASKS	Mfr Kit/Part/	Commercial	Am-Builder	Am-Builder
			Assistance	Assembly	Fabrication
Task #	Wings – 47 Listed Tasks				
W1	1 Fabricate Right Wing Spars	0.5			0.50
W2	1 Fabricate Right Wing Ribs	0.7			0.30
W3	1 Assemble Wing Spars and Ribs to Form Right Wing Primary Structure	0		1.00	
W4	1 Fabricate Left Wing Spars	0.5			0.50
W5	1 Fabricate Left Wing Ribs	0.7			0.30
W6	Assemble Wing Spars and Ribs to Form Left Wing Primary Structure	0		1.00	
W7	Fabricate Composite Cores	N/A			
W8	Assemble Composite Cores to Wing	N/A			
W9	1 Fabricate Wing Leading and Trailing Edges	0.8			0.20
W10	1 Assemble Wing Leading & Trailing Edges to Wing	0		1.00	
W11	Fabricate Drag/Anti-drag Truss Members	N/A			
W12	Assemble Drag/Anti-drag Truss Members to Wing	N/A			
W13	1 Fabricate Wing Brackets and Fittings	0.6			0.40
W14	1 Assemble Wing Brackets and Fittings to Wing	0		1.00	
W15	1 Fabricate Wing Tips	0.8			0.20
W16	1 Assemble Wing Tips to Wings	0		1.00	
W17	Fabricate Special Tools or Fixtures	N/A			
W18	Fabricate Aileron Spars	N/A			
W19	1 Fabricate Aileron Ribs or Cores	0.7			0.30
W20	Assemble Aileron Spars, Ribs and/or Cores to Form Aileron Primary Structure	0		1.00	
W21	1 Fabricate Aileron Brackets and Fittings	0.7			0.30
W22	1 Assemble Aileron Brackets & Fittings to Aileron	0		1.00	
W23	Fabricate Aileron Covering or Skin (Includes Leading and Trailing Edges)	0.7			0.30
W24	1 Assemble Aileron Covering or Skin to Aileron	0	_	1.00	
W25	1 Assemble Aileron to Wing	0		1.00	
W26	Fabricate Flap Spars	N/A			
W27	1 Fabricate Flap Ribs or Cores	0.7			0.30
W28	Assemble Flap Spars, Ribs or Cores to Form Flap Primary Structure	0		1.00	
W29	1 Fabricate Flap Bracket and Fittings	0.7			0.30
W30	1 Assemble Flap Brackets & Fittings to Flap	0		1.00	

			A	В	C	D
	FABRI	ICATION AND ASSEMBLY TASKS	Mfr Kit/Part/	Commercial	Am-Builder	Am-Builder
			Component	Assistance	Assembly	Fabrication
W31	Fabricate F Trailing Ed	Flap Covering or Skin (Includes Leading and Iges)	0.7			0.30
W32	1 Assemble 1	Flap Covering or Skin to flap	0		1.00	
W33	1 Assemble 1	Flaps to Wing	0		1.00	
W34	Fabricate V	Ving External Lighting Components	N/A			
W35	Assemble '	Wing Ext Lighting Components to Wing	N/A			
W36	1 Assemble	Basic Wing Structure	0		1.00	
W37	Fabricate V	Ving Fuel System components	N/A			
W38	Assemble '	Wing Fuel System Components to Wing	N/A			
W39	Fabricate C	Cables Wires and Lines	*			*
W40	Assemble (Cables Wires and Lines to Wing	*		*	
W41	1 Fabricate V	Ving Covering or Skin	0.8			0.20
W42	1 Assemble	Wing Covering or Skin to Wing	0		1.00	
W43	Fabricate V	Ving Struts/Wires	N/A			
W44	Assemble '	Wing Struts/Wires	N/A			
W45	Fabricate F	Fuel Tanks	N/A			
W46	Assemble 1	Fuel Tanks to Wing	N/A			
W47	1 Assemble	Wings to Next Higher Structure	0		1.00	
W48	Add Fab it	em:				
W49	V49 Add Assy item:					
W50	W50 Add Fab item:					
W51	W51 Add Assy item:					
	# of Wing Tasks	Wings Subtotal	Mfr Kit/Part/ Component	Commercial Assistance	Am-Builder Assembly	Am-Builder Fabrication
	30	Wings Total Points ▶	9.6	0	16	4.4

NOTE: Under W1-W2-W4 and W6 also encompasses the Aft wing Spar. W39 and W40 not evaluated not part of kit but essential for flight.

EADDICATION AND ACCEMBLY TACKS		A	В	C	D
	FABRICATION AND ASSEMBLY TASKS	Mfr Kit/Part/	Commercial		Am-Builder
T. 1		Component	Assistance	Assembly	Fabrication
Task #	Empennage – 42 Listed Tasks				
E1	1 Fabricate Stabilator Spars	0.7			0.3
E2	1 Fabricate Stabilator Ribs	0.7			0.3
E3	Assemble Stabilator Ribs to Form Primary Stabilator Structure	0		1.0	
E4	1 Fabricate Stabilator Brackets & Fittings	0.7			0.3
E5	1 Assemble Stabilator Brackets and Fittings	0		1.0	
E6	Fabricate Stabilator Lead/Trailing Edges	N/A			
E7	Assemble Stabilator Lead/Trailing Edges to Stabilator	N/A			
E8	Fabricate Stabilator Cables, Wires and Lines	N/A			
E9	Assemble Stabilator Cables, Wires and Lines to stabilator	N/A			
E10	1 Fabricate Stabilator Skin	0.7			0.3
E11	1 Assemble Stabilator Skin to Sabilator	0		1.0	
E12	1 Assemble Stabilator Structure to Fuselage	0		1.0	
E13	Fabricate Ruddervator Spars	N/A			
E14	1 Fabricate Ruddervator Ribs	0.7			0.3
E15	Assemble Ruddervator Ribs to Form Primary Ruddervator Structure	0		1.0	
E16	1 Fabricate Ruddervator Brackets and Fittings	0.9			0.1
E17	1 Assemble Ruddervator Brackets and fittings to Ruddervator	0		1.0	
E18	Fabricate Ruddervator Skins (Includes Leading and Trailing Edges)	0.7			0.3
E19	1 Assemble Ruddervator Skins to Ruddervator	0		1.0	
E20	Fabricate Ruddervator trim Tab	N/A			
E21	Assemble Ruddervator Trim Tab to Ruddervator	N/A			
E22	1 Assemble Ruddervator to Stabilator	0		1.0	
E23	Fabricate Vertical Stabilizer Spars	N/A			
E24	Fabricate Vertical Stabilizer Ribs Cores	N/A			
E25	Assemble Spars, Ribs and/or Cores to Form Primary Vertical Stabilizer Structure	N/A			
E26	Fabricate Vertical Stabilizer Brackets and Fittings	N/A			
E27	Assemble Brackets and Fittings to Vertical Stabilizer	N/A			
E28	Fabricate Vertical Stabilizer Cables, Wires and Lines	N/A			
E29	Assemble Cables, Wires, Lines to Vertical Stabilizer	N/A			
E30	Fabricate Vertical Stabilizer Covering or Skin (Includes Leading and Trailing Edges)	N/A			

	FABRICATION AND ASSEMBLY TASKS		A	В	C	D
	FADIO	TCATION AND ASSEMBLI TASKS	Mfr Kit/Part/	Commercial	Am-Builder	Am-Builder
			Component	Assistance	Assembly	Fabrication
E31	Assemble Stabilizer	Vertical Stabilizer Covering or Skin to Vertical	N/A			
E32	Assemble `	Vertical Stabilizer to Next Higher Structure	N/A			
E33	Fabricate F	Rudder Spar	N/A			
E34 1		Rudder Ribs	0.7			0.3
E35 1	Structure	Nudder Spars, Kibs to Politi Fillitary Nudder	0		1.0	
E36 1	Fabricate F	Rudder Brackets and Fittings	0.7			0.3
E37 1	Assemble	Rudder Brackets and Fittings to Rudder	0		1.0	
E38 1	Fabricate F	Rudder Skin (Includes Leading and Trailing Edges)	0.7			0.3
E39 1	Assemble	Rudder Skin to Rudder	0		1.0	
E40 1	Fabricate F	Rudder Trim Tab	0.7			0.3
E41 1	Assemble	Rudder Trim Tab to Rudder	0		1.0	
E42 1	Assemble	Rudder to Vertical Stabilizer	0		1.0	
E43 1	Fabricate S	Stabilator Tips	0.5			0.5
E44 1	Assemble	Stabilator Tips	0		1.0	
E45						
E46	E46 Add Assy item:					
Em	rtal # of pennage Γasks	Empennage Subtotal	Mfr Kit/Part/ Component	Commercial Assistance	Am-Builder Assembly	Am-Builder Fabrication
	26	Empennage Total Points ▶	8.4	0	14	3.6

NOTE: Stabilataor replaced the Horizontal Stabilizer. Ruddervator replaced the Elevator. There is not a Vertical Stailizer.

FABRICATION AND ASSEMBLY TASKS		A	В	C	D
FABR	ICATION AND ASSEMBLY TASKS	Mfr Kit/Part/	Commercial	Am-Builder	Am-Builder
		Component	Assistance	Assembly	Fabrication
Task Lar	ding Gear – 14 Listed Tasks				
LG1 1 Fabricat	e Landing Gear Struts or Major Components	0.8			0.2
(2)	e Landing Gear Struts or Major Components to imary Landing Gear Structure	0		1.0	
LG3 1 Assemb Structur	e Landing Gear System Components Next Level	0		1.0	
LG4 1 Fabricat	e Brake System Components	0.9			0.1
LG5 1 Assemb	e Brake System Components to Wheels/Gear	0		1.0	
LG6 1 Assemb	e Wheels and Tires to Landing Gear	0		1.0	
LG7 1 Fabricat	e Landing Gear Bracket and Fittings	0.7		0.3	0.3
LG8 1 Assemb Gear	e Landing Gear Bracket and Fittings to Landing	0		1.0	
LG9 Fabricat	e Landing Gear Actuation System Components	N/A			
1 (-1 ()	e Landing Gear Actuation System Components to gher Structure	N/A			
LG11 Fabricat	e Landing Gear System Cables, Wires and Lines	*			*
LG12 Assemb Level St	e Landing Gear Cables, Wires and Lines to Next ructure	*		*	
LG13 1 Fabricat	e Landing Gear fairings and wheel pants	0.4			0.6
LG14 1 Assemble Landing Gear Fairings and Wheel Pants to Next Level Structure		0		1.0	
LG15 1 Fabricate Ventral Fin		0.1			0.9
LG16 1 Assemble Ventral Fin to next higher assembly		0		1.0	
Total # of Lan Gear Tasks	Landing Gear Subtotal	Mfr Kit/Part/ Component	Commercial Assistance	Am-Builder Assembly	Am-Builder Fabrication
12	Landing Gear Total Points ▶	2.9	0	7.3	2.1

LG11 and LG12 Not evaluated not part of kit but essential for flight.

		VG A TVO V A VID A GG TV A VID	A	В	С	D
FABR		ICATION AND ASSEMBLY TASKS	Mfr Kit/Part/	Commercial	Am-Builder	Am-Builder
			Component	Assistance	Assembly	Fabrication
Task #	Pro	pulsion – 26 Listed Tasks				
P1	1 Fabricate I	Engine Mounts	0.9			0.1
P2	1 Assemble	Engine Mounts to Next Level Structure	0		1.0	
Р3	Fabricate I	Engine Cooling System/Baffles	*			*
P4	Assemble	Engine Cooling System Baffles to Engine	*		*	
P5	Fabricate I System	Engine Compartment Overheat/Fire Detection	N/A			
P6		Engine Compartment Overheat/Fire Detection Engine Compartment	N/A			
P7		nduction System	*			*
P8		Induction System to Engine	*		*	
P9		Exhaust System	*			*
P10	Assemble	Exhaust System to Engine	*		*	
P11	Fabricate I	Engine Control Installation Brackets	*			*
P12	Assemble	Engine Controls to Next Level Structure	*		*	
P13	Fabricate I	Brackets and Fittings	*			*
P14	Assemble	Brackets and Fittings to Next Level Structure	*		*	
P15	Fabricate (Cables, Wires and Lines	*			*
P16		Cables, Wires and Lines to next Level Structure	*		*	
P17		Engine (Likely N/A)	*		*	
P18		Engine to Engine Mount	*		*	
P19	Fabricate I	Engine Propeller (Likely N/A)	*			*
P20	1 Fabricate I	Propeller Spinner Components	1			0.0
P21	1 Assemble	Propeller and Spinner to Engine	0		1.0	
P22	1 Fabricate I	Engine Cowling	0.7			0.3
P23	1 Assemble	Engine Cowling to Airframe	0		1.0	
P24	1 Assemble : Structure	Engine Fuel System Components to Next Level	0		1.0	
P25	1 Fabricate I	Firewall	0.6			0.4
P26			0		1.0	
P27						
P28	Add Assy item:					
P29 Add Fab item:						
P30						
To	otal # of		MC. Wit/D	C 1	A D '11	A D '11
Pro	opulsion	Propulsion Subtotal	Mfr Kit/Part/ Component	Commercial Assistance	Am-Builder Assembly	Am-Builder Fabrication
	Tasks		Component	Assistance	Assembly	radification
	9	Propulsion Total Points ▶	3.2	0	5	0.8

Propulsion Comments: P3 and P4-P7,P8,P9,P10,P11,P12,P13,P14,P15,P16,P17,P18 and P19 Not evaluated not part of kit but essential for flight.

	EADDI	ICATION AND ACCEMBLY TACKS	A	В	C	D
FADKI		ICATION AND ASSEMBLY TASKS	Mfr Kit/Part/	Commercial		
T. 1	- C 1	***	Component	Assistance	Assembly	Fabrication
Task #	Соскр	it Interior – 23 Listed Tasks				
	1 Fabricate I	nstrument Panel	0.1			0.9
C2	1 Fabricate I	nstrument Sub Panels, Brackets and Fittings	0.3			0.7
		Instrument Panel, Sub Panels and Brackets and				
C3		Next Higher Structure	0		1.0	
C4	Assemble	Avionics to Instrument Panel	N/A			
C5	1 Fabricate S	Seats	0			1.0
C6	1 Fabricate S	Seat Brackets and Fittings	0.1			0.9
C7	1 Assemble S	Seats and Brackets and Fittings to Cockpit	0		1.0	
C8	Fabricate S Brackets	Seat Belts and Shoulder Harness Fittings and	0.6			0.4
С9	Assemble S Brackets to	Seat Belts and Shoulder Harness Fittings and Structure	0		1.0	
C10	Fabricate F	Electrical Wiring, Controls and Switches	*			*
C11		Electrical Systems Controls and Switches to Next	*		*	
C12	1 Fabricate	Control Yokes/Sticks	0.9			0.1
C13	1 Assemble	Control Yokes/Sticks to Flight Control System	0		1.0	
C14		All Flight Control Push Pull Tubes and/or Cables	N/A		110	
C15		Flight Control Push Pull Tubes and/or Cables to er Structure	N/A			
C16	1 Fabricate F	Rudder Pedals	0.9			0.1
C17	1 Assemble	Rudder Pedals to Next Higher Structure	0		1.0	
C18	Fabricate	Roll-Pitch and Yaw Trim Systems	N/A			
C19	Assemble	Roll-Pitch and Yaw Trim Systems to Next Higher	N/A			
C20	1 Fabricate F	Flap/Spoiler Controls	0.8			0.2
C21	· ·		0		1.0	
C22			N/A			
C23			N/A			
C24	C24 Add Fab item:					
C25	Add Assy	item:				
Total # of Cockpit Tasks		Cockpit Interior Subtotal	Mfr Kit/Part/ Component	Commercial Assistance	Am-Builder Assembly	Am-Builder Fabrication
	14	Cockpit Interior Total Points ▶	3.7	0	6	4.3

^{*} For C10 and C11 Not evaluated not furnished in kit but esential for flight.

Total # of	
Aircraft	
Tasks	
108	<u>◀ SUM #1</u>

тот
101

together.

D only, together.

TOTAL TASKS AND LINE ITEMS

6. Total Builder Points - Add points in row 2, column C and D only,

7. Total Builder Percentage – Add percentages in row 4, columns C and

FABRICATION AND ASSEMBLY SUMMARY		A	В	C	D
		Mfr Kit/Part/ Component	Commercial Assistance	Am Builder Assembly	Am Builder Fabrication
1. Total Number of Aircraft Tasks	(Note 1)	(SUM#1)		108.00	
2. Total Points for Each Category.	(Note 2)	33.8	0.0	56.3	18.2
3. Total Points for Complete Aircraft Construction (SUM # 2 should equal SUM # 1 above).	(Note3)	(SUM #2) ► 108.3			
4. Percentage of Each Category as Part of Total Aircraft Construction. (Note 4)		31.21%	0.00%	51.99%	16.81%
5. Total Percentages for Complete Aircraft Construction (Add all percentages in row 4) Total should equal 100% (± . 5%). (Note 5)			100.0%		

(Note 6)

74.5

68.79%

NOTES: Instructions For Completing Fabrication and Assembly Checklist Summary

1. TOTAL NUMBER OF AIRCRAFT TASKS (Sum #1): To find the total points awarded for all tasks, add together the six individual "Total # of Tasks" blocks located at the bottom left of each aircraft tasks section.

(Note 7)

- 2: TOTAL POINTS FOR EACH CATEGORY: [Columns A, B, C and D]. Each columns' total points are tallied by adding the sum of the points awarded in each respective column for each of the tasks in the section (Fuselage, Wings, Empennage, Landing Gear, Propulsion and Cockpit). Include points assigned to 'Additional Items' at the end of each section. Boxes with a N/A (not applicable) or an asterisk, have zero points.
- 3: TOTAL POINTS FOR COMPLETE AIRCRAFT CONSTRUCTION: (SUM#2) In row 3 of the Summary section, add together the numbers in each block on row2, tallied from each of the four column category totals, (Columns A+B+C+D). Compare SUM #1 to SUM #2. SUM #1 should be equal to SUM #2, (Verify the two sums are equal within a deviation of \pm 0.5). Total points will vary from aircraft to aircraft depending on number of add items and N/As (Not Applicable) applied. (e.g., 133 listed task points, plus 5 Add items, minus 22 N/As = 116 tasks)

- **4: PERCENTAGE OF EACH CATEGORY AS PART OF TOTAL AIRCRAFT CONSTRUCTION:** To compute category percentages, divide the number in each individual block found on row 2 by Sum #2 on row 3. For example if the total points of Mfr Kit/Part/Component category (Column A) = 40 and Sum #2 = 120, then divide 40 by 120 to reach 33.3%. Do this for each invidual block on row 4 for each column. Percentages may be rounded to the nearest tenth, (22.86% is rounded to 22.9%).
- **5: TOTAL PERCENTAGES FOR COMPLETE AIRCRAFT CONSTRUCTION:** Add up the percentages of each of the four categories (Columns A+B+C+D) found on row 4. Total must be equal to 100% with a (±) deviation limited to ½ % (0.5%). Example; a derived percentage between 99.5% and 100.5% is acceptable. If this computation falls outside the accepted deviation then an error has occurred in row 2, 3 or 4.
- **6: TOTAL BUILDER POINTS:** Add together the two point tallies from row 2, Columns C and D blocks only. Total will vary from aircraft to aircraft depending on number of N/As applied.
- 7. TOTAL BUILDER PERCENTAGE: Add together the two percentage tallies from row 4 Columns C and D blocks only. Total must exceed 50% to be eligible for amateur built status and to meet major portion requirement under 14 CFR, Part 21.191(g) Operating amateur-built aircraft.

EXPLANATIONS AND EXAMPLES

- ▶ All Points are added at the end of the form in the Summary section under their respective categories. The point total is comprised of all the credits awarded for primary delineated tasks plus any credits given for 'Additional
- ▶ "Additional Items" may be assigned points the same as primary listed tasks if work or parts not reflected in the main entries need to be credited.
- ▶ The applicants completion of tasks can be documented in a number of ways and may include
- (1) Builder's logs.
- (2) Photographs/video/DVD.
- (3) Drawings.
- (4) Engineering data when necessary.
- (5) Relevant documentation (e.g., plans) and references (e.g., handbooks) used.
- (6) Documentation concerning any commercial assist
- (7) Documentation concerning any non-commercial assistance used.
- (8) Part inventories and histories.
- (9) Receipts, Catalogs.
- (10) Log book entries

In addition to using this checklist, the builder should document the entire fabrication and assembly process. To issue an airworthiness certificate the FAA must make a major portion determination (the major portion of an aircraft was fabricated and assembled by an amateur builder (s)). Making this finding requires sufficient, credible and adequate documentation.