#### SUPPLEMENTAL TYPE INSPECTION REPORT

## **General Instruction**

This form provides a means whereby inspectors may record the results of inspections and/or tests, on modified products presented for supplemental type certificates, accomplished in accordance with instructions contained in the Type Inspection Authorization (TIA).

- A. Answer each question on this form by placing a check in the appropriate "YES", "NO", or "NA" (Not Applicable) block, or by filling in the answer, as appropriate. When an answer requires an explanation, record the explanation under "REMARKS" or on page 4 (TIA comments).
- B. The applicant's weight and balance report may be used in lieu of the weight and dimensional page of this form, provided it contains all the information requested. Weight and balance should be included in attachment section of report, when required.
- C. Original FAA Form 8130-9 (317) and FAA Form 8100-1 should be part of the attachments section of this report.

### Table of Regulations\*

14	CFR				CAR			S				
	Balloon	Cert'n	N.U.A	T-Cat	Glider	N-Rotor	T-Rotor	Eng.	Prop			
21.31			3.14 <sup>2</sup>	4b.14 <sup>2</sup>		6.14 <sup>2</sup>	7.14 <sup>2</sup>			Type Design		
21.33		1.15(a)	3.15	4b.15	5.15	6.15	7.15	13.15	14.15	Insp. & Tests		
21.35			3.16(b)	4b.16	5.16	6.16	7.			Flight Tests		
.29			3.72 <sup>2</sup>	4b.104		6.104	7.104			Empty Wt. & C.G.		
.31		3.72	31.51	4b.105		6.105	7.105			Removable Ballast		
.605	31.35		3.293	4b.302		6.302	7.302			Fabrication Method		
.871			3.401	4b.391		6.390	7.390			Leveling Means		
.1301(a)(4)			3.652							Equipment - Label		
.1301(b)				4b.601(b)		6.601(b)	7.601(b)			Equipment - Label		
.1301(c)				4b.601(c)		6.601(c)	7.601(c)			Equipment Install		
.1351(b)(1)			3.681			6.617				Elec - Haz & Prot'n		
.1351(b)(2)	31.71(b)			4b.622(b)(2)			7.622(b)(2)			Elec - Haz/ Mal. Fail		
.1431			3.721							Elec - Hazard		
.1431(a)							7.653(a)			Elec - Hazard		
.1431(b)							7.653(b)			Electronic Effect		
.1431(c)				4b.650(c)						Electronic Effect		

<sup>\*</sup> All regulations are those in effect on or preceding date of recodification.

<sup>1</sup> For airworthiness standards, except balloons, a missing FAR denotes a generic requirement, e.g. 14 CFR parts 23, 25, 27, 29.

<sup>2</sup> In part, see CFR Re-Designation Tables



## SUPPLEMENTAL TYPE INSPECTION REPORT (STIR)

Project No.	Date
Product	
Make	
Model	
Identification and Serial No.	
Serial Nos. Eligible	
Product Specification Or TC Data Sheet	Rev No.
Certification Basis (Part and Amendments)	
Applicant	
Address	
Modifier	
Address	
Description of Modifications	
Attaches and	
Attachments	
Inspection Conducted by	Date
Report Prepared by	Date
Report Reviewed by	Date
Report Approved by	

SUI	SUPPLEMENTAL TYPE INSPECTION REPORT						
	Administrative Data						
A	Period of Inspect from: to:						
B.	Where conducted?						
C.	Number of conformity inspections conducted and recorded on FAA Form 8100-1 and recorded in project file.						
D.	Were design changes needed to correct deficiencies revealed by FAA Inspection?  If yes, identify changes on page 4 (TIA comments), or on attachment.  Yes  No						
E.	E. Have all products/articles subjected to inspections and/or tests been properly recorded by part numbers(s), serial number(s), or registration number(s), as appropriate, on page 1 or in attachment?						
F.	Does the applicant have on file inspection records showing conformity to the type design and acceptable quality of the product?  Yes  No						
G.	Check appropriate block(s) for any FAA forms that have been submitted by the applicant prior to, or at the time of application.						
	FAA Form 8110-12 Date: FAA Form 8130-6 Date:						
	FAA Form 337 Date: FAA Form 8130-9 (317) Date:						
H.	Is supplemental type approval recommended?  Yes  No						
Rei	narks:						

If "Yes", items should be explained under appropriate TIA comments.

SUPPLEMENTAL TYPE INSPECTION REPORT  TIA Comments					
The following comments are contained in Section 12 of thas needed.					ed by reason of instructions dditional pages may be used Item 12 - Part I
4.0	) Empty W	sight and Carra	nond	ing Center of Gra	nei4ne
1.0	, Linpty vv	orgini and correct	эрона		ivity
1.1 Describe Leveling Mar	ks or Means				
1.2 Location of Datum					Ref: § .87
1.3 Horizontal Distance (inc	hes) from Da	tum to average Fron	t Main S	Scale Cl	
Horizontal Distance (inc	,	J			
•	•	· ·		ocale OL	
Horizontal Distance (inc	iles) ilolli Dai	turri to Auxiliary Scal	e CL		
4.1 Empty Weight					
	Sca	le Reading		Tare	Net Weight
Forward Left Main Scale					
Forward Right Main Scale					
Rear Left Main Scale					
Rear Right Main Scale					
Auxiliary Scale					
Empty Weight					
NOTE: The empty weight and co (1) Fixed Ballast	rresponding cent	er of gravity must be dete	rmined by	weighing the aircraft with	-
(2) Unusable Fuel	fluids including (i	) oil (ii) hydraulic fluid ano	l (iii) other	fluids required for normal	operation of aircraft systems, except
		e water, and water intend			sporation of alloral systems, except
Center of Gravity is	inches	Forward		Aft of Datum	Ref: § .29

## 2.0 Removable Ballast

2.1	If removable ballast is used to show compliance with the flight requirements, is the place for carrying ballast installed and marked in accordance with the change to the type design?				No	N/A		
	Ref: §.31							
		3.0 Fabrication Process						
3.1	and a	ne applicant shown that materials, products, parts, processes, cassemblies conform to the specifications and drawings shown in a type design?		Yes	No	N/A		
	b. Has item	the product been changed between the time it was shown to cor 3.1.a. of this report and the time it was presented for FAA Inspendent any changes on FAA Form 8100-1.	Yes	No	N/A			
	c. Has	the applicant made all inspections and tests necessary to determ	ine					
	(1)	Compliance with the applicable airworthiness and noise/emissic requirements;	on	Yes	No	N/A		
	(2)	That the materials and products conform to the specifications is changed type design;	n the	Yes	No	N/A		
	(3)	That the parts of the product conform to the drawings in the chadesign;	anged type	Yes	No	N/A		
	(4)	That the manufacturing processes, construction, and assembly those specified in the type design?	conform to	Yes	No	N/A		
3.2		suitability and durability of materials used for parts, the failure of y affect safety:	which could					
	a. Beer	n established by experience or tests?		Yes	No	N/A		
		n established through approved specifications that ensure their higth and other properties assumed in the design data?and	aving the	Yes	No	N/A		
		n evaluated to take into account the affects of environmental cond as temperature and humidity, expected in service?	ditions, Ref: § .603(a)	Yes	No	N/A		
3.3	Have hig	h standards of workmanship been used in the fabrication of parts	S? Ref: §.603(b)	Yes	No	N/A		
4.0 Fuselage and Wing								
4.4	Ava aban		lacion?					
4.1	Ale Chan	ges to the fuselage or wing in conformity to the change in type d	Ref: § 21.31	Yes	No	N/A		
		5.0 Control System						
5.1	Are chan	iges to the control system in conformity to the change in type des	sign?	Yes	No	N/A		
5.2	Do the co	ontrol surface travels conform to the change in type design?	Ref: § 21.31(a)	Yes	No	N/A		
		6.0 Personnel and Cargo Accommo						
C 4	Ano share	•						
6.1		ges to the personnel and cargo compartments in conformity with the type design?	n the Ref: § 21.31(a)	Yes	No	N/A		

# 7.0 Powerplant Installation

7.1	Does the powerplant installation conform to the change in type design?  Ref: § 21.31(a)	Yes	No	N/A
	8.0 Equipment			
8.1	Are changes to the installed equipment in conformity to the change in type design?  Ref: § 21.31(a)	Yes	No	N/A
8.2	Is each item of equipment installed in accordance with the change in type design			
	<ul> <li>Labeled as to the identification, or operation limitations, or any applicable combination of these factors; and</li> </ul>	Yes	No	N/A
	b. Installed according to limitations specified for that equipment? Ref. § .1301 (b) and (c)	Yes	No	N/A
8.3	Are the electrical, radio, and electronic systems included in or affected by the change in the type design free from hazards in themselves, in their method of operation, and in their effects on other components?  Ref. § .1351(b)(1)(i), .1431 or .1431(a)	Yes	No	N/A
8.4	Are electrical cables and wire bundles included in or affected by the change in type design protected from fuel, oil, water, and other detrimental substances, and from mechanical damage?  Ref. § .1351(b)(1)(ii)	Yes	No	N/A
8.5	Are the changes to the radio and electronic equipment, controls, and wiring installed so that operation of any one unit or system of units will not adversely affect the simultaneous operation of any other radio or electronic unit or system of units required by the airworthiness or operation rules?	Yes	No	N/A
	Ref. § .1351(b)(1)(i), .1431 or .1431(a)			
	9.0 Function and Reliability Testing			
9.1	Did the change in type design necessitate F & R tests?  Ref. § 21.35	Yes	No	N/A
9.2	Did the altered systems and installations function satisfactorily during the F $\&R$ tests? Ref. § 21.35	Yes	No	N/A