INSPECTION AUTHORIZATION INFORMATION GUIDE

Appendix 1 Sample Forms and Records



No certificate may be issued unless a completed application form has been received (14 CFR 65) **U. S. DEPARTMENT OF TRANSPORTATION** OMB No. 2120-0022 FEDERAL AVIATION ADMINISTRATION Exp: 08/31/2014 **MECHANIC'S APPLICATION FOR INSPECTION AUTHORIZATION** 2. MECHANIC CERTIFICATE NO. 1. NAME (Last, First, Middle) A&P 12345678 Doe, John J. 4b. TELEPHONE NO. 3. MAILING ADDRESS (Number, Street, City, State/County, 4a. FIXED BASE OF OPERATIONS Zip Code) (Place at which you desire to receive PLACE AT WHICH YOU MAY PLACE AT WHICH YOU MAY BE LOCATED IN Airworthiness Directives, etc. PERSON DURING NORMAL WORKING WEEK BE LOCATED BY TELEPHONE **DURING NORMAL WORKING** 1450 E Cheltenham Ave Meridian Aviation, Downtown Airpark WFFK Cleveland County 5060 S Western Ave (405) 555-1875 Oklahoma City, OK 73098 Oklahoma City, OK 73452 YES NO 5. HAVE YOU HELD A MECHANIC CERTIFICATE WITH BOTH AIRFRAME AND POWERPLANT RATINGS FOR THE 3? YEARS PRECEDING THE DATE OF THIS APPLICATION? 6. HAVE YOU BEEN ACTIVELY ENGAGED, FOR AT LEAST THE 2-YEAR PERIOD BEFORE THE DATE OF APPLICATION IN MAINTAINING AIRCRAFT CERTIFICATED AND MAINTAINED IN ACCORDANCE WITH THE CFRs? 7. HAS YOUR MECHANIC CERTIFICATE AND/OR RATINGS BEEN REVOKED OR SUSPENDED DURING THE 3-YEAR \checkmark PERIOD PRECEDING THIS APPLICATION? 8. HAS AN INSPECTION AUTHORIZATION BEEN DENIED YOU WITHIN 90 DAYS PREVIOUS TO THIS APPLICATION? IF ANSWER IS "YES", EXPLAIN IN REMARKS. 9. HAVE YOU MET THE MINIMUM REQUIREMENTS FOR RENEWAL OF INSPECTION AUTHORIZATION? 10. BASIS FOR RENEWAL (Number Performed Per Renewal Period, ALTERATIONS REPAIRS ANNUAL INSP. PROGRESSIVE INSP. RECENT ISSUANCE -IN EFFECT LESS THAN 90 Second Renewal Period First Year Period First Year Second Renewal Period First Year Second Renewal Second Renewal Period Period Period Period DAYS BEFORE EXPIRATION DATE. FAA ACCEPTED COURSE/SEMINAR NO., LOCATION, AND DATE FAA ACCEPTED COURSE/SEMINAR NO., LOCATION, AND DATE (Second Renewal Period, 11. AIRCRAFT MAINTENANCE ACTIVITY DURING LAST 2 YEARS NAME AND ADDRESS OF REPAIR STATION, FACILITY, **DESCRIPTION OF ACTIVITY** DATES MANUFACTURER, OPERATOR, ETC. FROM June 12, 20XX Meridian Aviation, Downtown Airpark Inspection, repair, and overhaul of single-engine and 5077 S Western Ave TO PRESENT multiengine aircraft Oklahoma City, OK 73458 FROM TΩ FROM TO 12. REMARKS Endorsement expires in 30 days. 13. CERTIFICATION: I certify that the statements made above and in all attachments hereto are correct and true. DATE SIGNATURE OF APPLICANT March 22, 20XX John J. Doe 14. RECORD OF ACTION (For FAA use only) DATE INSPECTOR'S SIGNATURE OFFICE IDENTIFICATION ENDORSEMENT March 22, 20XX John Milford **ASW 25** John Milford INSPECTOR'S SIGNATURE OFFICE IDENTIFICATION DATE ISSUANCE RENEWAL ─ VOLUNTARY SURRENDER

Figure 1. FAA Form 8610-1, Mechanic's Application for Inspection Authorization.

FAA Form 8610-1 (07/10) SUPERCEDES PREVIOUS EDITION



front

EXPIRATION DATE ENDORSED BY INSPECTOR FAA OFFICE							
3/31/20XX	Mike Johnson	SW-FSDO-2					

back

Figure 2. FAA Form 8310-5, Inspection Authorization.

											oproved o. 2120-0020	Electronic Tracking Number	
110.000		N	IAJO	R REPAIR A	ND	ΑL	TERATION	1	ŀ	For FAA Use Only			
US Departmen of Transportation Federal Aviation	on	(Airfran	ne, P	owerplant, F	rop	oell	ler, or App	liance)				FOI FAA USE OIIIY	
		or type a	II entri	es See Title 14	L CFI	R 8	43.9 Part 43	Annendix B a	nd AC	43 9-	1 (or sub	esequent revision thereof) for	
instructions		ition of this	form.									sult in a civil penalty for each	
	Nationalit	y and Regi	stratio	n Mark N123	1E I			Serial No.	721-4	1256	6		
1. Aircraft	Make			11123	455		Model			+330	Series		
	FI	eetWing						FW2				80	
Name (As shown on registration certificate) Address (As shown on registration certificate) Address 2414 N. Lincoln									certificate)				
2. Owner	I м	ike J. Ur	bach			City Milltown				State OK			
								zip 7312	22		Coun	try	
						3. I	For FAA Use	Only					
The tec	hnical da	ta identit	fied h	nerein has be	en	f∩ı	und to com	nly with ann	licab	le air	worthir	ness	
				pproved for u								1000	
				rson authoriz									
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							Maria I	alusau	Moria	a lak		ACI	
						•	naua y	onnson	Maria	a Joi	nnson,	ASI	
4. Ty	pe					5. (Unit Identifica	ition					
Repair	Alteration	Uni	t		Mal	ke			Model		Serial No.		
1		AIRFRAM	1E					(As describe	(As described in Item 1 above)				
		POWERF	PLANT										
		PROPELI	LER										
				Туре									
		APPLIAN	CE										
				Manufacturer									
						_							
A. Agency's I	Name and A	ddroee			6.	_	onformity State Kind of Agence						
,	ene Hensor					₽ .		ated Mechanic			Man	ufacturer	
Address 212 S							Foreign Certificated Mechanic			C. Certificate No. A&P 1709665			
City Millto				State OK	_ [Certificated F	ertificated Repair Station					
Zip <u>7312</u>	2Coi	untry			_		Certificated N	laintenance Orgar	nization				
have b	een made in	accordanc	e with		s of F	Part	t 43 of the U.S					e or attachments hereto at the information	
		ade and 60		ature/Date of Aut			Individual a	,			044		
Extended rar per 14 CFR F			Joigilla	ilui ei Dale Oi Aul	ı IOI IZ	.cu	marvidai E	Eugene Henso	w		'Mar	ch 2, 20XX	
Арр. В							E	Eugene Hens	on				
				7.	. Apr	orov	val for Return	to Service					
				ons specified be ministration and i		th	e unit identifi	ed in item 5		spect ejecte		e manner prescribed by the	
	AA FIt. Stand	lards	Man	ufacturer		Ma	aintenance Or	ganization			ns Approve tment of Tr	ed by Canadian ransport	
BY	AA Designee		Repa	air Station	√	In	spection Author	orization	Other	(Spec	cify)		
Certificate or			Signa	ature/Date of Aut	horiz	ed	Individual	λη + Ληη	_		A	1	
Designation N Δ&P Q₂	No. 486717 I <i>A</i>	7						Martin M.	U	yer	Apr	il 2, 20XX	
FAA Form		`					ľ	Martin M. Saw	yer				

Figure 3. FAA Form 337, Major Repair and Alteration (Airframe, Powerplant, Propeller, or Appliance) (front view). Note the FAA inspector's data approval for a major repair (block 3).

N		ıc	

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished (If more space is required, attach additional sheets. Identify with aircraft nat	ionality and registration mark and date	e work completed.)
	N12345J	03/02/20XX
	Nationality and Registration Mark	Date
Aircraft Total Time 6,210 hours		
 Removed horizontal stabilizer from aircraft and open Removed cracked rear spar and replaced with new accordance with FleetWing structural repair manual Original rivet pattern and type (MS20470AD3-4) w 	<i>r</i> spar (part number FW1020 al No. 410, chapter 2, and fig	4-56) in
DATE: 02/25/20XX, inspected repair work to interior top skin. Found repair to be in accordance with dat inspection of the complete interior of the stabilizer revealed no damage and good structural condition	a indicated and ready for fin for hidden damage and cond	al closure. An
Martin M. Sawyer		
Martin M. Sawyer, A&P 9486717 IA		
Primed interior of stabilizer and closed upper skin. operationally checked in accordance with manufaction.		
3. No change in weight and balance.		
END		

FAA Form 337 (10-06)

Figure 3 (cont'd). FAA Form 337, Major Repair and Alteration (Airframe, Powerplant, Propeller, or Appliance) (back view).

Additional Sheets Are Attached

March 22, 20XX

Total Aircraft Time 1,502.0 Hours

Tach Time 972.4 Hours

I certify that this aircraft has been inspected in accordance with an annual inspection as per Air Tractor AT502 owner's manual and was determined to be in an airworthy condition.

Joseph P. Kline A&P 123467899 IA

NOTE: This is an example of a record entry for an **annual inspection** determining the aircraft to be in airworthy condition. The date, aircraft total time, and tachometer (tach) or recorder reading are included. The tach or recorder readings should not be confused with the total time and should only be shown in **addition** to the total time entry. The mechanic's certificate number is suffixed by the letters "IA" indicating that the mechanic is the holder of an inspection authorization. Maintenance done in conjuction with the inspection should be entered as a separate entry.

Figure 4. Example of an airworthy annual inspection maintenance record entry.

Page <u>1</u> of <u>1</u> Date <u>12/02/2000</u>

Registration Number <u>N937JM</u> Aircraft Make/Model <u>FleetWing FW-25-200</u> Serial Number <u>2842015</u>

Aircraft Certification Date <u>07/12/2000</u>

Engine Model <u>Lycoming 0-320-D3G</u> Serial Number <u>L-7656-38A</u>

AD Number	Revision Date	Applicable S.B. Number and Subject	Date and Hours at Compliance	Method of Compliance	One Time	Recurring	Next Compliance at Hours/Date	Authorized Signature, Type, and Number
2008-26-13		Inspect Oil Cooler Hose	5/27/1996 3,102 hours	Replaced hose assembly with TSO 53a, type D hose. 100-hour recurrent inspection or longer required.			NA	Bill Jenkins A&P 23453322 IA
2005-20-R1	Oct. 10, 2005	Inspect fuel cells IAW SB 1134	12/14/2005 2,823 hours	Inspected IAW FleetWing service bulletin 1134 sections A and B.	х		No further action required	Joe Kline A&P 123467899 IA
2001-02-03		Fuel quantity indicators.	02/15/2001 502 hours	Replaced right and left fuel quantity indicators per AD paragraph B2.	x		No further action required	Jimmy Miller A&P 23244411
2000-26-01		Inspect flap jackscrew IAW SB 1002	02/15/2001 502 hours	Inspected IAW FleetWing SB 1002.		х	Inspection required each 3,000 hours	Jimmy Miller A&P 23244411

Figure 5. Airworthiness Directive Compliance Record (suggested format).

OMB No. 2120-0003 08/31/2008

DEPARTMENT OF TRANSPORTATION			OPER. Control No.		Comments (Describe the malfunction or defect and the circumstances under which it occurred. State probable cause and recommendations to prevent recurrence.)	- IGE	NATION	
FEDERAL AVIATI	FEDERAL AVIATION ADMINISTRATION		ATA Code	8120	Pilot reported loss in aircraft's critical	DIST	OPER/ DESIGN	
MALFUNCTION OR DEFECT REPORT		PORT	1. A/C Reg. No.	N- 6696J	altitude. Inspection revealed the left engine's	H H	1-0	
Enter pertinent data	MANUFACTU	JRER	MODEL/SERIES	SERIAL NUMBER	wastegate shaft warped and binding. The	OTH		
2. AIRCRAFT			421B	421B79485	shaft's freedom of travel was also found to	MUTER		219
3. POWERPLANT	Continer	ntal	GTSIO520L	C216977	be partially restricted due to carbon buildup in the bearings. This is possibly a	COM	$\frac{1}{2}$	9
PROPELLER McCauley		Эy	3AF34C92	42279	contributing factor in the warping. Recommend lubricating wastegate valve		,	5 -
5. SPECIFIC PART (of component) CAUSING TROUG		JBLE			JF G.	1/2	55	
Part Name MFG. Model or Part No.		Part No.	Serial No.	Part/Defect Location.	with approved lubricant such as Mouse Milk		13	1
Wastegate shaft Garrett PN 4166952		166952	NA	left engine wastegate	or WD-40 when shaft is cool.	AIRTAXI	Me	429)
6. APPLIANCE/COMP	ONENT (Assembly	that Includ	es part)			Į.	200	
Comp/Appl Name	Manufactu	rer	Model or Part No.	Serial Number		¥ ×	Mike	
Wastegate Garrett			480164-10	1121	Optional Information:	DP ER.	- M	NUMBER
Part TT Part TSO		F	Part Condition	7. Date Sub.	Check a box below, if this report is related to an aircraft	T	P	N O
1,222 hrs NA warpe		ped	1/22/20XX	Accident; Date Incident; Date	REP.STA	SUBMITTED	TELEPHONE	

FAA FORM 8010-4 (10-92) SUPERSEDES PREVIOUS EDITIONS

NOTE: This is a typical FAA Form 8010-4 (revised 10-92). The holder of an IA is urged to use this form for all malfunctions or defects that cannot be attributed to poor maintenance procedures. Provide the information requested on the form. Note that item 8 requests information concerning how the defect can be corrected. The form may be obtained at the local Flight Standards District Office or online at the FAA's web site (FAA.gov). At the web site the form is found under the Aircraft tab and under the Advisories & Guidance—Service Difficulty Reports (SDR) heading. The form may be e-mailed, faxed, or mailed to the addresses or telephone fax number noted under Service Difficulty Reporting System (SDRS) Submissions on the web site.

Figure 6. FAA Form 8010-4, Malfunction or Defect Report.

Operating Limitations: Zeph-Air 63-1A N40023

RPM Do not exceed 2,300

Oil temperature 212°F max.

Airspeed limits—do not exceed:

Level flight or climb 95 knots
Glide or dive 130 knots
Gross weight 1,200 lb

Empty CG 14.4 inches aft of datum

Useful load 453 lb Kinds of operation VFR—day

Figure 7. Operating limitations placard.

March 22, 20XX

Total Aircraft Time 3,202.5 Hours

Hobbs Meter Reading 975.5 Hours

I certify that this aircraft has been inspected in accordance with an annual inspection, and a list of discrepancies and unairworthy items dated March 22, 20XX, have been provided for the aircraft owner.

Joseph P. Kline A&P 1123456789 IA

Figure 8. Example of an unairworthy annual inspection maintenance record entry.

Academy Aviation Hangar 4 North Philadelphia Airport Philadelphia, PA 19114

Mr. Morris McCall 1450 W. Cheltenham Ave. Philadelphia, PA 19125

Mr. McCall:

This is to certify that on March 22, 20XX, I completed an annual inspection on your aircraft, Condor 191B, S/N 3945, N1234, and found the following unairworthy items:

Compression in No. 3 cylinder read 30 over 80, which is below the manufacturer's recommended limits.

The muffler has a broken baffle plate which is blocking the engine exhaust outlet.

There is a 6-inch crack on bottom of the left wing just aft of the main landing gear attach point.

Joseph P. Kline A&P 123456789 IA

Figure 9. Discrepancy list to be provided to an aircraft owner when reporting an aircraft with unairworthy items after completing an annual inspection.

Weight and Balance Revision Date: 05/06/20XX

N44933 Cessna 182L Supersedes Computations found on FAA Form 337,

Serial Number 18234329 dated 10/22/20XX

Removed the following equipment: 1. Turn coordinator P/N C661003-0211 2. Directional gyro P/N 0760099 Total	Weight 2.50 lb +3.12 5.62	<u>Arm</u> 15.0 13.5	Moment 37.50 +42.12 79.62
Aircraft after removal	1,709.60 <u>-5.62</u> 1,703.98	35.26 35.20	60,282.20 <u>-79.62</u> 60,202.58
Installed the following equipment: 1. Vector2 Autopilot system including turn coordinator and directional gyro.	Weight 13.0 lb	<u>Arm</u> 32.7	Moment 425.13
*REVISED LICENSED EMPTY WEIGHT	1,703.98 +13.00 1,716.98		60,202.20 +425.13 60,627.71

^{*}NEW USEFUL LOAD: 1,083.02

Forwar	rd Limit Che	ck (Limit +	38.4)	Rearward Limit Check (Limit +47.4)				
	Wt	Arm	Moment		Wt	Arm	Moment	
A/C Empty	1,716.98	35.31	60,627.21	A/C Empty	1,716.98	35.31	60,627.21	
Fwd Seats	170.00	36.00	6,120.00	Fwd Seats	170.00	36.00	6,120.00	
Aft Seats				Aft Seats	340.00	71.00	24,140.00	
Fuel (min.)	115.00	48.00	5,520.00	Fuel (max.)	360.00	48.00	17,280.00	
Oil	22.00	-15.00	-330.00	Oil	22.00	-15.00	-330.00	
Baggage				Baggage	120.00	97.00	11,640.00	
	2,023.98	35.50	71,937.71		2,728.98	43.78	119,477.71	

Joseph P Kline Joseph P Kline A&P 123456789 IA

NOTE: Computations are shown. Form is signed, dated, and identifies the computations or figures it supersedes. It is recommended that the manufacturer's weight and balance data forms be used for specific aircraft.

Figure 10. Weight and balance revision for a typical light, single-engine aircraft.

July 12, 20XX

Aircraft Total Time: 1,566 hours

Complied with Airworthiness Directive (AD) 20XX-12-10R1, effective date June 30, 20XX. Modified the airplane by compliance with paragraph 2(b) of AD. Installed FleetWing Service Kit SK 1910 as required by AD. No recurring action required.

Bill Quinlan A&P 143298671

Figure 11. One-time Airworthiness Directive compliance entry.

May 23, 20XX

Engine Total Time: 720 hours

Complied with Airworthiness Directive (AD) 20XX-10-12, Alcon Turbo Chargers by inspection as required by paragraphs (b) through (g) of AD. Turbine housing found satisfactory, next inspection due at 920 hours.

Joe Knight A&P 279387792

Figure 12. Recurrent Airworthiness Directive compliance entry.