

UNITED STATES OF AMERICA
DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

Air Agency Certificate

Number JGV5194F

This certificate is issued to

DUNCAN AVIATION, INC.
d/b/a DUNCAN AVIONICS

whose business address is

15290 NORTH 78TH WAY, SUITE D100
SCOTTSDALE, ARIZONA 85260

upon finding that its organization complies in all respects with the requirements of the Federal Aviation Regulations relating to the establishment of an Air Agency, and is empowered to operate an approved **SATELLITE REPAIR STATION.**

with the following ratings:

RADIO
LIMITED AIRFRAME (03/15/2006)
LIMITED ACCESSORY (05/05/2004)
LIMITED INSTRUMENT (10/04/2016)

This certificate, unless canceled, suspended, or revoked, shall continue in effect **INDEFINITELY.**

Date issued:

APRIL 26, 1988

By direction of the Administrator



JAMES H. GUTHRIE
ACTING MANAGER, SDL-FSDO-WP07

This Certificate is not Transferable, AND ANY MAJOR CHANGE IN THE BASIC FACILITIES, OR IN THE LOCATION THEREOF, SHALL BE IMMEDIATELY REPORTED TO THE APPROPRIATE REGIONAL OFFICE OF THE FEDERAL AVIATION ADMINISTRATION

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both

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A001 . Issuance and Applicability

HQ Control: 02/11/2016

HQ Revision: 05e

a. These operations specifications are issued to Duncan Aviation, Inc., a Repair Station located in the United States, pursuant to 14 CFR Part 145, § 145.53. The repair station certificate holder shall conduct operations in accordance with 14 CFR Part 145 and these operations specifications.

The certificate holder's address:

Fixed Location:
15290 North 78th Way, Suite D100
Scottsdale, Arizona 85260

b. The holder of these operations specifications is the holder of certificate number JGV5194F and shall hereafter be referred to as the "certificate holder".

c. These operations specifications are issued as part of this repair station certificate and are in effect as of the date approval is effective. This certificate and these operations specifications shall remain in effect until the certificate for a repair station that is located in the United States is surrendered, suspended, or revoked.

d. U.S./EU Aviation Safety Agreement Repair Station/Maintenance Organization Approvals not authorized.

e. The certificate holder is authorized to conduct the operations described in subparagraph a under the following other business names:

Duncan Avionics
Delegated authorities: None

1. Issued by the Federal Aviation Administration.
2. These Operations Specifications are approved by direction of the Administrator.



Digitally signed by Yasmin Margret Duran, Principal Avionics Inspector (WP07)
[1] SUPPORT INFO: Mandatory Template Revision
[2] EFFECTIVE DATE: 3/7/2016, [3] AMENDMENT #: 11
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3. I hereby accept and receive the Operations Specifications in this paragraph.

Digitally signed by Jeffrey L King
DATE: 2016.03.08 08:00:47 -06:00

A002 . Definitions and Abbreviations

HQ Control: 02/11/2016

HQ Revision: 05c

Unless otherwise defined in these operations specifications, all words, phrases, definitions, and abbreviations have identical meanings to those used in 14 CFR and 49 U.S.C., as cited in Public Law 103-272, as amended. Additionally, the definitions listed below are applicable to operations conducted in accordance with these operations specifications.

BASA The Bilateral Aviation Safety Agreement (BASA) is an executive agreement concluded between the United States and a foreign country for the purpose of promoting aviation safety; also known as an Agreement for the Promotion of Aviation Safety.

Certificate Holder In these operations specifications, the term "certificate holder" means the holder of the repair station certificate described in these operations specifications in Part A paragraph A001 and any of its officers, employees, or agents used in the conduct of operations under this certificate.

CFR Code of Federal Regulations

Class rating As used with respect to the certification, ratings, privileges, and limitation of aircraft within a category having similar operating characteristics.

EASA European Aviation Safety Agency

EASA Accountable Manager The manager who has corporate authority for ensuring that all maintenance required by the customer can be financed and carried out to the standard required by the EASA full-member Authority.

EU European Union

Exemption An authorization that permits an alternate means of compliance with a specific CFR. The exemption must meet the procedural requirements of 14 CFR Part 11.

FOCA Federal Office of Civil Aviation

FAA Accountable Manager A person designated by the certificated repair station who is responsible for and has authority over all repair station operations that are conducted under 14 CFR Part 145, including ensuring that the repair station's personnel follow the regulations and serving as the primary contact with the FAA.

Geographic An approval provided to a repair station located outside the United

Authorization	States to perform maintenance support under contract for a U.S. air carrier (or an operator of U.S.- registered aircraft under 14 CFR Part 129) at a location other than the repair station facility. A geographic authorization is issued by the FAA to respond to a U.S. air carrier's or Part 129 foreign operator's need for maintenance at a station where the frequency and scope of that maintenance does not warrant permanently staffing and equipping the station for its accomplishment.
Limited Rating	A rating issued to repair stations for the performance of maintenance on particular makes and models of airframes, powerplants, propellers, radios, instruments, accessories, and/or parts.
Limited Ratings - Specialized Services	Rating issued for a special maintenance function when the function is performed in accordance with a specification approved by the Administrator.
Line Maintenance	Any unscheduled maintenance resulting from unforeseen events, or scheduled checks where certain servicing and/or inspections do not require specialized training, equipment, or facilities.
MAG	The Maintenance Annex Guidance (MAG) defines the process that the FAA and EASA undertake in the inspection, findings of compliance certification, and monitoring of repair stations, as well as their joint cooperation in quality assurance and standardization activities in support of the Agreement, Annex 2, Maintenance.
Maintenance	The inspection, overhaul, repair, preservation, and replacement of parts, but excludes preventive maintenance.
U.S./EU Aviation Safety Agreement, Annex 2, Maintenance	Annex 2 covers the reciprocal acceptance of findings of compliance, approvals, documentation and technical assistance regarding approvals and the monitoring of repair stations/maintenance organizations.
MIP	Maintenance Implementation Procedures (MIP) are procedures for implementing the provisions of a BASA that apply to maintenance.
MOE	A maintenance organization exposition (MOE) pertains to EASA member countries that use an MOE in place of a Repair Station Manual (RSM) and a Quality Control Manual (QCM).
Preventive Maintenance	As defined in 14 CFR part 1 and part 43 appendix A, subparagraph (c).
QCM	Quality Control Manual
Repair Station located in the United States	A certificated repair station located in the United States.

Repair Station located outside the United States A certificated repair station located outside of the United States.

RSM Repair Station Manual

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1. Issued by the Federal Aviation Administration.
 2. These Operations Specifications are approved by direction of the Administrator.



Digitally signed by Yasmin Margret Duran, Principal Avionics Inspector (WP07)
[1] SUPPORT INFO: Mandatory Template Revision
[2] EFFECTIVE DATE: 3/7/2016, [3] AMENDMENT #: 9
DATE: 2016.03.07 12:14:46 -06:00

3. I hereby accept and receive the Operations Specifications in this paragraph.

Digitally signed by Jeffrey L King
DATE: 2016.03.08 08:00:47 -06:00

A003 . Ratings and Limitations

HQ Control: 04/03/2017

HQ Revision: 01a

The certificate holder is authorized the following Ratings and/or Limitations:

Class Ratings

Radio Class 1: Communications Equipment

Radio Class 2: Navigational Equipment

Radio Class 3: Radar Equipment

Limited Ratings

<u>Rating</u>	<u>Manufacturer</u>	<u>Make/Model</u>	<u>Limitations</u>
Airframe	From the accepted Capability List, as amended.	From the accepted Capability List, as amended.	Airframe Maintenance and Preventive Maintenance excluding: --- Complete inspections to airframe, powerplants and propellers. --- Removal, disassembly and installation of powerplants, propellers, primary flight controls & landing gear components and associated actuators.
Airframe	All (12,500 lbs MGTOW or less per TCDS)	All	Limited to aircraft that weigh 12,500 lbs maximum gross take-off weight (MGTOW) or less per the Type Certificate Data Sheet. Limited to the following: Airframe Maintenance and Preventive Maintenance excluding: --- Complete inspections to airframe, powerplants and propellers. --- Removal, disassembly and installation of powerplants, propellers, primary flight controls & landing gear components and associated actuators.
Accessories	From the accepted Capability List, as amended.	From the accepted Capability List, as amended.	Electrical – Maintenance, Preventive Maintenance excluding Overhaul.
Instruments	Aerosonic, United Kollsman/IDC Honeywell, Collins,	Altimeters	Instrument maintenance and preventive maintenance limited to externally accessible components not requiring instrument

<u>Rating</u>	<u>Manufacturer</u>	<u>Make/Model</u>	<u>Limitations</u>
	Bendix/King, Smith Industries, Thales, Jaeger, Thompson Sextant		disassembly.

Limited Ratings - Specialized Services

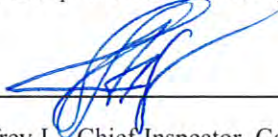
<u>Rating</u>	<u>Specifications</u>	<u>Limitations</u>
None Authorized.		

-
1. Issued by the Federal Aviation Administration.
 2. These Operations Specifications are approved by direction of the Administrator.



Digitally signed by Yasmin Margret Duran, Principal Avionics Inspector (WP07)
[1] SUPPORT INFO: FAA initiated change in concurrence with Central Region
[2] EFFECTIVE DATE: 5/11/2017, [3] AMENDMENT #: 11
DATE: 2017.05.11 11:52:34 -05:00

3. I hereby accept and receive the Operations Specifications in this paragraph.



King, Jeffrey L., Chief Inspector, Components/Satellites Date 5-11-17

A004 . Summary of Special Authorizations and Limitations

HQ Control: 09/23/1998

HQ Revision: 010

a. The certificate holder, in accordance with the reference paragraphs, is authorized to:

	Reference Paragraphs
Use an approved electronic recordkeeping system, electronic/digital signature, and/or electronic media.	A025
Conduct operations choosing to have an antidrug and alcohol misuse prevention program.	A449
Perform work, excluding continuous operations, at additional locations other than at its primary Fixed Location.	D100

b. The certificate holder is *not authorized* and *shall not*:

	Reference Paragraphs
Use Exemptions.	A005
Perform maintenance with EASA ratings where the scope of work is authorized by a BASA/MAG (U.S.-EU), MIP/MaG (U.S.-Swiss).	A060
Perform work, including continuous operations, at additional locations other than at its primary fixed location.	A101
Conduct operations choosing to have an antidrug and alcohol misuse prevention program.	A449
Perform maintenance in accordance with foreign repair station geographic authorizations.	B050
Perform line maintenance for cert. holders conducting operations under Parts 121 and 135 and for foreign carriers/persons operating U.S. registered aircraft in common carriage under Part 129, apart from D100 which authorizes that work away from station.	D107

1. Issued by the Federal Aviation Administration.
2. These Operations Specifications are approved by direction of the Administrator.



Digitally signed by Yasmin Margret Duran, Principal Avionics Inspector (WP07)
[1] SUPPORT INFO: Template Update
[2] EFFECTIVE DATE: 3/7/2016, [3] AMENDMENT #: 8
DATE: 2016.03.07 12:16:14 -06:00

3. I hereby accept and receive the Operations Specifications in this paragraph.

Digitally signed by Jeffrey L King
DATE: 2016.03.08 08:00:48 -06:00

A007. Designated Persons

HQ Control: 12/19/06
HQ Revision: 030

a. The personnel listed in the following table are designated to officially apply for and receive operations specifications for the certificate holder indicated below.

Table 1 -- Designated Persons to Apply for and Receive Authorizations

Title	Name	Parts Authorized
FAA Accountable Manager, 145	Nelson, Matthew Q.	A,D
Manager of Regulatory Compliance	Mertens, Michael R.	A,D
Chief Inspector, Components/Satellites	King, Jeffrey L.	A,D

b. The following personnel listed in Table 2 are designated by the certificate holder to receive information for Operators (INFO) messages for the certificate holder as indicated below. A receipt for the information by an operator or person is not required.

Table 2 -- Designated to Receive INFO Messages

Name	Email Address	Telephone No.	Type of Information to Receive
Mertens, Michael R.	mike.mertens@duncanaviation.com	(402) 475-2611	ALL
King, Jeffrey L.	jeff_king@duncanaviation.com	(402) 475-2611	ALL

1. The Certificate Holder applies for the Operations in this paragraph.
2. Support information reference: Air Agency's letter dated July 30, 2007.
3. These Operations Specifications are approved by direction of the Administrator.


Crowley, Jerry M.


Principal Avionics Inspector

CE09

4. Date Approval is effective: 8/2/07

Amendment Number: 7

5. I hereby accept and receive the Operations Specifications in this paragraph.


King, Jeffrey L.

Chief Inspector, Components/Satellites

Date: 8/2/07

**A025 . Electronic/Digital Recordkeeping System,
Electronic/Digital Signature, and Electronic Media**

HQ Control: 04/03/2017

HQ Revision: 00b

a. The certificate holder is authorized to use an acceptable electronic/digital recordkeeping system, described and/or referenced in this paragraph (if none, enter N/A.)

Electronic recordkeeping system as referenced in the Duncan Aviation Repair Station General Operating Manual (RSGOM).

b. The certificate holder is authorized the use of the following electronic/digital signature procedures (if none, enter "N/A").

Electronic/Digital Signature System (ESO) procedures as outlined in the Duncan Aviation RSGOM.

c. The certificate holder is authorized to use electronic media for the repair station and quality control manuals, if acceptable (if none, enter "N/A").


An electronic copy of the RSGOM shall be posted within five working days as referenced in the Duncan Aviation RSGOM.

1. Issued by the Federal Aviation Administration.
2. These Operations Specifications are approved by direction of the Administrator.



Digitally signed by Yasmin Margret Duran, Principal Avionics Inspector (WP07)
[1] SUPPORT INFO: FAA initiated change in concurrence with Central Region
[2] EFFECTIVE DATE: 5/11/2017, [3] AMENDMENT #: 3
DATE: 2017.05.11 11:53:56 -05:00

3. I hereby accept and receive the Operations Specifications in this paragraph.



King, Jeffrey L., Chief Inspector, Components/Satellites Date 5-11-17

A449 . Antidrug and Alcohol Misuse Prevention Program

HQ Control: 07/17/2009

HQ Revision: 00a

- a. The Part 145 repair station certificate holder has elected to implement an Antidrug and Alcohol Misuse Prevention Program, because the certificate holder performs safety-sensitive functions for a 14 CFR Part 121, and 135 certificate holder and/or for a 14 CFR Part 91 operator conducting operations under Section 91.147.
- b. The certificate holder certifies that it will comply with the requirements of 14 CFR Part 120 and 49 CFR Part 40 for its Antidrug and Alcohol Misuse Prevention Program.
- c. Antidrug and Alcohol Misuse Prevention Program records are maintained and available for inspection by the FAA's Drug Abatement Compliance and Enforcement Inspectors at the location listed in Table 1 below:

Table 1

Location & Telephone of Antidrug and Alcohol Misuse Prevention Program Records:	
Telephone Number:	A3: JGVA
Address:	
Address:	
City:	
State:	
Zip code:	

d. Limitations and Provisions.

- (1) Antidrug and Alcohol Misuse Prevention Program inspections and enforcement activity will be conducted by the Drug Abatement Division. Questions regarding these programs should be directed to the Drug Abatement Division.
- (2) The certificate holder is responsible for updating this operations specification when any of the following changes occur:
 - (a) Location or phone number where the Antidrug and Alcohol Misuse Prevention Program Records are kept.
 - (b) If the certificate holder's number of safety-sensitive employees goes to 50 and above, or falls below 50 safety-sensitive employees.
- (3) The certificate holder with 50 or more employees performing a safety-sensitive function on January 1 of the calendar year must submit an annual report to the Drug Abatement Division of the FAA.
- (4) The certificate holder with fewer than 50 employees performing a safety-sensitive function on January 1 of any calendar year must submit an annual report upon request of the Administrator, as specified in the regulations.

The certificate holder has fewer than 50 safety-sensitive employees.

1. Issued by the Federal Aviation Administration.
2. These Operations Specifications are approved by direction of the Administrator.



Digitally signed by Yasmin Margret Duran, Principal Avionics Inspector (WP07)
[1] SUPPORT INFO: Reword Table 1
[2] EFFECTIVE DATE: 3/7/2016, [3] AMENDMENT #: 1
DATE: 2016.03.07 12:17:36 -06:00

3. I hereby accept and receive the Operations Specifications in this paragraph.

Digitally signed by Jeffrey L King
DATE: 2016.03.08 08:00:47 -06:00

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Part D

	HQ CONTROL DATE	EFFECTIVE DATE	AMENDMENT NUMBER
100 Work to be Performed at a Place Other Than the Repair Station Fixed Location(s)	11/16/2004	03/02/2016	9

D100 . Work to be Performed at a Place Other Than the Repair Station Fixed Location(s) HQ Control: 11/16/2004
HQ Revision: 050

- a. The certificate holder may perform work at a place other than its Fixed Location (as listed in paragraph A001, and paragraph A101 if issued, of these operations specifications) provided it has the facilities, material, equipment and technical personnel to perform the work authorized in the following table.

Table 1

Work Authorized	Repair Stations Manual References	Quality Control Manual References
All functions authorized in paragraph A003	Duncan Aviation, Inc. Repair Station General Operating Manual (RSGOM), Section: Repair Station Manual, Chapter: Work Performed Away From Station.	see Duncan Aviation, Inc. RSGOM

- b. The certificate holder **may not** perform **continuous** operation at a facility other than the station's Fixed Location listed in paragraph A001, and paragraph A101 if issued.
- c. Line Stations . Privileges of a line station, as set forth by the EASA certificate and scope of work and located within the country where the main facility is domiciled are listed in Table 1 are authorized.
- d. Work may be due to a special circumstance or on a recurring basis. If on a recurring basis, the repair station must have procedures in its manual.

1. Issued by the Federal Aviation Administration.
2. These Operations Specifications are approved by direction of the Administrator.



Digitally signed by Yasmin Margret Duran, Principal Avionics Inspector (WP07)
[1] SUPPORT INFO: Reworded Table 1
[2] EFFECTIVE DATE: 3/7/2016, [3] AMENDMENT #: 10
DATE: 2016.03.07 12:19:49 -06:00

3. I hereby accept and receive the Operations Specifications in this paragraph.

Digitally signed by Jeffrey L King
DATE: 2016.03.08 08:00:48 -06:00