

UNITED STATES OF AMERICA
DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

Air Agency Certificate

Number NWCY386L

This certificate is issued to

SHANNON AIRCRAFT MOTOR WORKS LIMITED
d/b/a: HAMILTON SUNDSTRAND SHANNON

whose business address is
WORLD AVIATION PARK
SHANNON, COUNTY CLARE
IRELAND

*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* REPAIR STATION

with the following ratings:

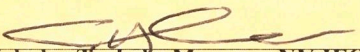
LIMITED, ACCESSORY (DEC. 31, 1999)
LIMITED SPECIALIZED SERVICES (JUL. 26, 2010)

*This certificate, unless canceled, suspended, or revoked,
shall continue in effect* Until SEPTEMBER 30, 2020.

By direction of the Administrator

Date issued:

October 31, 1991


FAA Nicholas Tsokris, Manager NY IFO

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

Table of Contents

Part A

	HQ CONTROL DATE	EFFECTIVE DATE	AMENDMENT NUMBER
001 Issuance and Applicability	02/11/2016	09/25/2018	11
002 Definitions and Abbreviations	12/14/2017	09/14/2018	9
003 Ratings and Limitations	04/03/2017	09/14/2018	8
004 Summary of Special Authorizations and Limitations	09/23/1998	01/09/2013	5
007 Designated Persons	12/19/2006	01/09/2013	6
025 Electronic/Digital Recordkeeping System, Electronic/Digital Signature, and Electronic Media	04/03/2017	09/14/2018	3
060 Ratings for Repair Stations Located Outside the United States Under a Bilateral Aviation Safety Agreement with Maintenance Provisions	06/07/2018	09/14/2018	7

A001 . Issuance and Applicability

HQ Control: 02/11/2016

HQ Revision: 05e

a. These operations specifications are issued to Shannon Aircraft Motor Works LTD., a Repair Station, located outside 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:
World Aviation Park
Shannon
Ireland

b. The holder of these operations specifications is the holder of certificate number NWCY386L 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 expiration date on the issued certificate for a repair station that is located outside the United States unless previously surrendered, suspended, or revoked.

d. The repair station specified on these operations specifications and located within the EU performs maintenance and/or an alteration of aircraft and/or aeronautical products to be installed on U.S.-registered aircraft under the terms and conditions of the U.S./EU Safety Agreement, Annex 2, Maintenance, between the FAA and the EU.

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

Hamilton Sundstrand Shannon
Delegated authorities: None

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



Digitally signed by Luis A Leon, Principal Avionics Inspector (FS59)
[1] SUPPORT INFO: Reissuance of this Paragraph to get fixed the Amendment
Number print error.
[2] EFFECTIVE DATE: 9/25/2018, [3] AMENDMENT #: 11
DATE: 2018.09.25 14:22:17 -05:00

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

Denis Mc Carthy

McCarthy, Denis, Quality Manager

26 September 2018

Date

A002 . Definitions and Abbreviations

HQ Control: 12/14/2017

HQ Revision: 05d

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.
CAAS	Civil Aviation Authority of Singapore
CFR	Code of Federal Regulations
Class Rating	As used with respect to the certification, ratings, privileges of airframes, powerplants, propellers, radios, instruments, and accessories 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 Authorization	Authorization provided to a repair station located outside the United 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's main 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 EASA Agreement, Annex 2, Maintenance. The term Maintenance Agreement Guidance (MAG) defines the processes and activities applicable to a specific country under an MIP, and is not associated with the EASA Agreement.
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 performed under 14 CFR Part 145, Section 145.53(b).
MOE	A maintenance organization exposition (MOE) pertains to procedural manuals used by maintenance organizations certificated by a foreign country. The MOE along with the FAA Supplement, sets forth the structure and procedures of the repair station to meet the requirements of 14 CFR Part 145 under a MIP.

**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 FAA certificated repair station located in the United States.

**Repair Station located
outside the United
States**

A FAA certificated repair station located outside of the United States.

RSM

Repair Station Manual

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



Digitally signed by Luis A Leon, Principal Avionics Inspector (FS59)
[1] SUPPORT INFO: New template revision 05d.
[2] EFFECTIVE DATE: 9/14/2018, [3] AMENDMENT #: 9
DATE: 2018.09.14 10:59:20 -05:00

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

Denis McCarthy

26 September 2018

McCarthy, Denis, Quality Manager

Date

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

None authorized

Limited Ratings

Rating

Any other purpose for which the FAA finds the applicant's request is appropriate

Manufacturer Make/Model Limitations

Ireland

See Paragraph A060 for EASA Ratings.
EASA Certificate Number IE.145.008
Dated: Dec 2 2015

Limited Ratings - Specialized Services

Rating

Rewinding of Electrical Apparatus's from the acceptable Capability List as amended.

Specifications

Process Specification
Stators Ref # IP001,
Process Specification
Armatures Ref # IP002,
Process Specification
Rotor Ref # IP003,
Process Specification
Fields Ref # IP004,
Process Specification
Miscellaneous Ref # IP005

Limitations

Use the methods, techniques, and practices approved by the FAA or prescribed in the current manufacture manuals.

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



Digitally signed by Luis A Leon, Principal Avionics Inspector (FS59)
[1] SUPPORT INFO: New template revision 01a. Updated the EASA Certificate
date.
[2] EFFECTIVE DATE: 9/14/2018, [3] AMENDMENT #: 8
DATE: 2018.09.14 11:04:00 -05:00

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

Denis McCarthy

McCarthy, Denis, Quality Manager

26 September 2018

Date

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
Perform maintenance with NAA ratings where the scope of work is authorized by a BASA/MIP.	A060

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

	Reference Paragraphs
Use Exemptions.	A005
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 work, excluding continuous operations, at additional locations other than at its primary Fixed Location.	D100
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

U.S. Department
of Transportation
Federal Aviation
Administration

Operations Specifications

1. The Certificate Holder applies for the Operations in this paragraph.
2. These Operations Specifications are approved by direction of the Administrator.



Digitally signed by Phillip Kathman, Principal Maintenance Inspector (EA33)
[1] SUPPORT INFO: Renewal per MAG & change of Accountable Manager
[2] EFFECTIVE DATE: 1/9/2013, [3] AMENDMENT #: 5
DATE: 2013.01.09 06:20:02 -06:00

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

Denis M. McCarthy 30 Jan 2013
McCarthy, Denis, Quality Manager Date

A007 . Designated Persons

HQ Control: 12/19/2006

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
Quality Manager	McCarthy, Denis	A
FAA Accountable Manager, 145 / General Manager	Curran, John	A

- 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
Denis Mc Carthy	d.mccarthy@utas.utas.com	+353-61-707161	ALL

1. The Certificate Holder applies for the Operations in this paragraph.
2. These Operations Specifications are approved by direction of the Administrator.



Digitally signed by Phillip Kathman, Principal Maintenance Inspector (EA33)
[1] SUPPORT INFO: Renewal per MAG & change of Accountable Manager
[2] EFFECTIVE DATE: 1/9/2013, [3] AMENDMENT #: 6
DATE: 2013.01.09 06:21:42 -06:00

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

Denis M'Carthy

30 Jan 2013

McCarthy, Denis, Quality Manager

Date

**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.)

Hamilton Sundstrand Shannon MOE 2.8, 2.13, 2.14, 2.21

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

Hamilton Sundstrand Shannon MOE 2.8, 2.13, 2.14, 2.21

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").

Hamilton Sundstrand Shannon MOE 2.8, 2.13, 2.14, 2.21

1. Issued by the Federal Aviation Administration.

2. These Operations Specifications are approved by direction of the Administrator.



Digitally signed by Luis A Leon, Principal Avionics Inspector (FS59)

[1] SUPPORT INFO: New template revision 00b. Update of MOE references per the MAG Audit Report 2 received.

[2] EFFECTIVE DATE: 9/14/2018, [3] AMENDMENT #: 3

DATE: 2018.09.14 11:10:57 -05:00

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

Denis M^cCarthy

McCarthy, Denis. Quality Manager

26 September 2018

Date

A060 . Ratings for Repair Stations Located Outside the United States Under a Bilateral Aviation Safety Agreement with Maintenance Provisions **HQ Control: 06/07/2018**
HQ Revision: 01a

a. The certificate holder is authorized the following EASA ratings where the scope of work is authorized by the appropriate aviation authority. The FAA may issue a repair station certificate with appropriate ratings under 14 CFR Part 145, § 145.53(b) provided A060 satisfies:

- (1) The rating comparison chart and guidance in the applicable MAG
- (2) Ratings are limited by type and weight of aircraft
- (3) Ratings are issued either for base or line maintenance
- (4) Ratings are not listed in operations specification A003 per the prospective MAG procedures.

b. The certificate holder is authorized the following aircraft ratings per the scope of work identified in the Aircraft Ratings Table below:

AIRCRAFT RATINGS	Approval Certificate and Scope of Work
	None

c. The certificate holder is authorized the following engine and APU ratings per the scope of work identified in the Engine Ratings Table below:

ENGINE RATINGS	Approval Certificate and Scope of Work
	None

d. The certificate holder is authorized the following ratings for components other than complete engines or APU per the scope of work identified on the Ratings for Components Table below:

RATINGS for COMPONENTS	Approval Certificate and Scope of Work
C-1 Air Cond & Pres	IE.145.008
C-3 Comms & Nav	IE.145.008
C-5 Electrical Power	IE.145.008
C-6 Equipment	IE.145.008
C-7 Engine-APU	IE.145.008
C-8 Flight Controls	IE.145.008
C-9 Fuel-Airframe	IE.145.008
C-12 Hydraulic	IE.145.008
C-14 Landing Gear	IE.145.008

e. The certificate holder is authorized the following specialized services ratings per the scope of

work identified on the Ratings for Specialized Services Table below:

RATINGS for SPECIALIZED SERVICES	Approval Certificate and Scope of Work
	None

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



Digitally signed by Luis A Leon, Principal Avionics Inspector (FS59)
[1] SUPPORT INFO: New template revision 01a.
[2] EFFECTIVE DATE: 9/14/2018. [3] AMENDMENT #: 7
DATE: 2018.09.14 11:12:55 -05:00

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

Denis M^cCarthy 26 September 2018
McCarthy, Denis. Quality Manager Date