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A001 . Issuance and Applicability

HQ Control: 02/23/2011

HQ Revision: 05a

a. These operations specifications are issued to Ace Precision Machining Corp., a Domestic Repair Station, pursuant to Title 14 Code of Federal Regulations (CFR) Section 145.53. The repair station certificate holder shall conduct operations in accordance with CFR Part 145 and these operations specifications.

The certificate holder's address:

Fixed Location:
W146 N5714 Enterprise Avenue
Menomonee falls, Wisconsin 53051

b. The holder of these operations specifications is the holder of Certificate Number QAPR054K 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 operations specifications shall remain in effect until the domestic repair station certificate is surrendered, suspended, or revoked.

d. The repair station specified on these operations specifications and located within the domestic United States performs maintenance and/or alteration of aircraft and/or aeronautical products to be installed on aircraft under the terms and conditions of a Bilateral Aviation Safety Agreement and associated Maintenance Implementation Procedures between the Federal Aviation Administration and a Foreign National Aviation Authority identified in the Interim BASA/MIP Guidance.

The certificate holder is authorized to use only the business name which appears on the certificate to conduct the operations described in subparagraph a.

Delegated authorities: None

1. Issued by the Federal Aviation Administration .
2. Support information reference:
3. These Operations Specifications are approved by direction of the Administrator.



2011.06.28 11:20:42 Central Daylight Time
Location: WebOPSS
Digitally signed by Timothy H Anderson,
Principal Maintenance Inspector (GL13)

4. Date Approval is effective: 06/28/2011 Amendment Number: 4
5. I hereby accept and receive the Operations Specifications in this paragraph.

Doug Bittl, , Quality Manager

A handwritten signature in cursive script that reads "Doug Bittl".

Date: 06/28/2011

A002 . Definitions and Abbreviations

HQ Control: 11/15/2010

HQ Revision: 05a

Unless otherwise defined in these operations specifications, all words, phrases, definitions, and abbreviations have identical meanings to those used in the Title 14 Code of Federal Regulations (CFR) Regulations and Title 49 United States Code 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.

**Bilateral Aviation
Safety Agreement
(BASA)**

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" shall mean 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.

**Domestic Repair
Station**

A certificated repair station located in the United States.

Exemption

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

**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.

FAA Form 8000-4-1

The FAA Form 8000-4-1 has been replaced with the form contained within this operations specifications application (OPSS) for the generation of the 14 CFR Part 145 Repair Station Operations Specifications.

**Foreign Repair
Station**

A certificated repair station located outside of the United States.

**Geographic
Authorization**

An approval provided to a foreign repair station to perform maintenance support under contract for a U.S. air carrier, or 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 the need of a U.S. air carrier or Part 129 foreign operator 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.

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.

Limited Rating

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 or data acceptable to 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.

Maintenance

The inspection, overhaul, repair, preservation, and the replacement of parts, but excludes preventive maintenance.

**Maintenance
Implementation
Procedures (MIP)**

Procedures for implementing the provisions of a BASA that apply to maintenance.

MOE

Maintenance Organization Exposition - Pertains to European Aviation Safety Agency member countries that use an MOE in place of a Repair Station Manual and a Quality Control Manual.

**Preventive
Maintenance**

As defined in Appendix A subparagraph (c) of 14 CFR Part 43.

QCM

Quality Control Manual

RSM

Repair Station Manual

1. Issued by the Federal Aviation Administration .
2. Support information reference:
3. These Operations Specifications are approved by direction of the Administrator.



2011.06.28 11:26:44 Central Daylight Time
Location: WebOPSS
Digitally signed by Timothy H Anderson,
Principal Maintenance Inspector (GL13)

4. Date Approval is effective: 06/28/2011 Amendment Number: 4
5. I hereby accept and receive the Operations Specifications in this paragraph.

Doug Bittl, Quality Manager

A handwritten signature in black ink that reads "Doug Bittl".

Date: 06/28/2011

A003 . Ratings and Limitations

HQ Control: 01/30/2004

HQ Revision: 010

The Certificate Holder is authorized the following Ratings and/or Limitations:

Class Ratings

None Authorized

Limited Ratings

<u>Rating</u>	<u>Manufacturer</u>	<u>Make/Model</u>	<u>Limitations</u>
PowerPlant	Honeywell	TFE731 Series.	As listed on the accepted Capabilities List as amended.
	Honeywell	TPE331 Series.	As listed on the accepted Capabilities List as amended.
	Pratt-Whitney	PT6A-65 Series.	As listed on the accepted Capabilities List as amended.
Accessories	Honeywell	GTCP 36, 85, 331, 660 and 700 Series APU's.	As listed on the accepted Capabilities List as amended.
	Honeywell	GTCP 131-9 Series APU's.	As listed on the accepted Capabilities List as amended.
	Honeywell	RE220 APU's	As listed on the accepted Capabilities List as amended.
	Hamilton Sundstrand	Gemini, T-20G Series APU's.	As listed on the accepted Capabilities List as amended.
	Hamilton Sundstrand	APS 500, T-40 Series APU's.	As listed on the accepted Capabilities List as amended.

Limited Ratings - Specialized Services

<u>Rating</u>	<u>Specifications</u>	<u>Limitations</u>
Non Destructive Inspection	Liquid Penetrant. In accordance with ASTM E-1417.	Or as otherwise specified by the manufacturer's procedures. See Note 1.
Electron Beam Welding	In accordance with AMS 2681, latest revision.	Or as otherwise specified by the manufacturer's procedures. See Note 2.

<u>Rating</u>	<u>Specifications</u>	<u>Limitations</u>
Heat Treating.	In accordance with Honeywell specification HT 5088,	Or as otherwise specified by the manufacturer's procedures. See Note 2.
Pressure Testing.	In accordance with Honeywell specification EMS 52310.	Or as otherwise specified by the manufacturer's procedures. See Note 2.
Brazing	In accordance with Honeywell specification WBS 5027	Or as otherwise specified by the manufacturer's procedures. See Note 2.
Plasma Spray Coating.	In accordance with Honeywell specification EMS 52432.	Or as otherwise specified by the manufacturer's procedures. See Note 2.
Fusion Welding	In accordance with AWS D17.1, latest revision.	Or as otherwise specified by the manufacturer's procedures. See note 2.

Note 1. N.D.I. will be conducted in accordance with the referenced standard. The inspection mediums used may be more sensitive than specified by the manufacturer, but under no circumstances, less sensitive.

Note 2. The following applies and must be observed regarding any and all Specialized Service ratings. 1. Subcontracting as a whole and/or a portion of the service is not authorized. 2. Overhauls of any kind shall not be permitted under this rating.

1. Issued by the Federal Aviation Administration .
2. Support information reference:
3. These Operations Specifications are approved by direction of the Administrator.



2011.06.28 11:10:37 Central Daylight Time
Location: WebOPSS
Digitally signed by Timothy H Anderson.
Principal Maintenance Inspector (GL13)

4. Date Approval is effective: 06/28/2011 Amendment Number: 12
5. I hereby accept and receive the Operations Specifications in this paragraph.

Doug Bittl, , Quality Manager

A handwritten signature in black ink that reads "Doug Bittl".

Date: 06/28/2011

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 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

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

	Reference Paragraphs
Use Exemptions.	A005
Perform maintenance with NAA ratings where the scope of work is authorized by a BASA/MIP.	A060
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

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
President	Paul A. Erdmann,	A
Quality Manager	Doug Bittl,	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
Doug Bittl	doug.bittl@aceprecision.com	262 252-4003	ALL

1. Issued by the Federal Aviation Administration .
2. Support information reference:
3. These Operations Specifications are approved by direction of the Administrator.



2010.02.01 14:15:23 Central Standard Time
Location: WebOPSS
Digitally signed by Timothy H Anderson,
Principal Maintenance Inspector

4. Date Approval is effective: 02/01/2010

Amendment Number: 3

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

Doug Bittl, , Quality Manager

A handwritten signature in cursive script that reads "Doug Bittl".

Date: 02/01/2010

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

HQ Control: 11/16/2004

HQ Revision: 00a

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

Authorized to use those functions within the ACE Intranet identified within the repair station manual to include the Vantage, Ace Precision Repair and Overhaul Certification Database and Gagetrak software systems. Reference Section 10, "Required Records and Record Keeping System" of the Repair Station Manual.

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

As per the Ace Precision Repair and Overhaul Certification Database system. Reference the Repair Station Manual Section 2, "Document Control" and Section 10, "Required Records and Record Keeping System".

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").

"Read only" manuals are available to all repair station personnel via the ACE Intranet. Revision to be performed by Quality Manager only. Reference Section 2, "Document Control", of the Repair Station Manual.

A101 . Additional Fixed Locations

HQ Control: 11/16/2004

HQ Revision: 010

a. The certificate holder may perform work at the following additional fixed location(s) listed in Table 1, provided it has the facilities, material, equipment and technical personnel to perform the work authorized :

Table 1

Additional Location Address(es)				
Address	City	State	Country	Postal Code
977 Blue Ribbon Circle	Oconomowoc	Wisconsin	UNITED STATES	53066

b. This authorizes the certificate holder to use multiple locations to perform its operations under a single certificate.

c. This authorization does not constitute a geographic authorization for work performed at another location.

d. The certificate holder may perform continuous operations at the facilities listed in Table 1 above.

e. Privileges of a line station, as set forth by any EASA line station rating, are authorized at these locations, as applicable.

f. All the authorizations and exemptions authorized for the certificate holder apply at these locations, as applicable.

The following Repair Station functions are performed at the Oconomowoc facility: raw material receiving, machining, expanding, wire EDM, electron beam welding, fusion welding, resistance welding, heat treatment and NDT. The "Ace Precision Organizational Chart" depicts the management and inspection personnel breakdown for this facility.

1. Issued by the Federal Aviation Administration .
2. Support information reference:
3. These Operations Specifications are approved by direction of the Administrator.



2010.06.16 10:47:18 Central Daylight Time
Location: WebOPSS
Digitally signed by Timothy H Anderson,
Principal Maintenance Inspector (GL13)

4. Date Approval is effective: 06/16/2010 Amendment Number: 2
5. I hereby accept and receive the Operations Specifications in this paragraph.

Doug Bittl , Quality Manager

A handwritten signature in cursive script that reads "Doug Bittl".

Date: 06/16/2010

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:	A1 (262) 252-4003
Address:	W146 N5714 Enterprise Avenue
Address:	N/A
City:	Menomonee Falls
State:	WI
Zip code:	53051

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 50 or more safety-sensitive employees.

1. Issued by the Federal Aviation Administration .
2. Support information reference:
3. These Operations Specifications are approved by direction of the Administrator.



2010.02.01 14:29:28 Central Standard Time
Location: WebOPSS
Digitally signed by Timothy H Anderson,
Principal Maintenance Inspector

4. Date Approval is effective: 02/01/2010

Amendment Number: 2

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

Doug Bittl, , Quality Manager

A handwritten signature in cursive script that reads "Doug Bittl".

Date: 02/01/2010