

Floats & Fuel Cells, Inc. 3615 Air Park Memphis, TN 38118 Phone: 901-842-7110 www.ffcfuelcells.com FAA REPAIR STATION TH4R544M- A SUBSIDIARY OF LINDEN STREET CAPITAL CORPORATION

Date: January 2020

Re: Response to Supplier/Vendor Audit Evaluation/Survey

Dear Customer,

At Floats and Fuel Cells we have consolidated a certification package for our Maintenance Repair Station.

This package includes a copy of the following:

- ✓ Completed Audit Checklist
- ✓ FAA Repair Station Air Agency Certification
- ✓ Drug and Alcohol Certification
- ✓ ISO 9001: AS9100 Certification
- ✓ EASA Certification
- ✓ Capability List
- ✓ Operations Specifications

Thank you for your interest in FFC. For additional information or questions contact FFC's Quality Department.

Best Regards,

Dale Rosson Quality Manager Floats and Fuel Cells Office: 901-842-7110 Email: drosson@ffcfuelcells.com



Floats and Fuel Cells 3615 Air Park Memphis, TN 38118 Phone: 901-842-7110 www.ffcfuelcells.com

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Floats and Fuel Cells 3615 Air Park Memphis, TN 38118 Phone: 901-842-7110 www.ffcfuelcells.com

Company Name	Floats and Fuel Cells
Billing Address	4010 Pilot Dr. Suite 103
Shipping Address	3615 Air Park
City, State	Memphis, TN 38118
Phone	901-842-7110
Fax	901-842-7135
Website	www.ffcfuelcells.com

**Organization Personnel** 

Quality Manager Dale Rosso	i
Sales Manager Kevin Brewe	r

Business Type Aircraft Maintenance Repair Station

Certificates	Cert. Number
FAA	TH4R544M
Drug/Alcohol	CONN671B
ISO 9001/ AS9100	12986
EASA	EASA.145.4448
NAICS	336413
Cage Code	4U536
DUNs	106-299-076



Α	GENERAL	Yes	No	N/A	Comments
1	Does the provider hold an FAA Air Agency or Transport Canada AMO Certificate?	x			14 CFR Part 145 Air Agency Certificate
	a) Certificate # TH4R544M	х			
	b) Operation Specifications attached	х			
2	Does the Provider only perform work for which it is authorized on it's Op Spec?	x			
3	Are the person(s) directly in charge of maintenance authorized on it's Op Spec?	x			
	a) Certificates to include company employees and subcontract personnel?	x			No subcontracting allowed per RSM, ref.
4	Does the repair station observe duty time limitations?	х			

В	QUALITY ASSURANCE	Yes	No	N/A	Comments
1	Is there an established Quality Control Program?	х			
2	Does the provider have an up to date QC manual that covers the FAR manual requirements?	x			
	a) Does it detail duties, responsibilities and reporting	х			
	b) Is the manual current and available to employees in acceptable formats: i.e. paper, CDRom, intra net?	x			
3	Does the provider have an internal audit and surveillance function?	x			
	a) Do you have an established schedule?	х			
	b) Is there an established procedure to provide corrective actions for discrepancies?	x			
	c) Is there evidence appropriate corrective actions have been applied when necessary?	x			
4	Do you maintain a file of audit findings and corrective actions for 3 years?	x			
5	Does the provider have an established procedure to ensure segregation of military and commercial parts/ components?	x			
6	Does your company maintain an approved vendors list? a) Do Receiving Inspection and Purchasing Department	x			
	receive copies of the approved vendor's list?	х			
7	Does the provider have a procedure for reporting defects or non-airworthy conditions to the FAA concerning significant findings within 96 hours of the discovery?	x			



С	INSPECTION	Yes	No	N/A	Comments
1	Does the provider use appropriately licensed/authorized maintenance personnel to sign the maintenance releases, airworthiness releases, inspections, etc. Such personnel shall have met the applicable authority requirements?	x			
2	Does the provider ensure a proper separation of maintained and inspection responsibilities if they perform required inspections?	x			
3	Does the provider maintain an up to date roster of persons authorized to conduct required inspections and any restrictions imposed?	x			
4	Does the provider maintain a roster that identifies all personnel authorized for return to service?	x			
5	Does the roster maintain a roster identifying all supervisory and inspection personnel?	x			
6	If stamps are used, is there an acceptable system for the control of stamps for authorized personnel?			x	No stamps used.
7	Does the provider have an acceptable receiving inspection program?	x			
	a) Does the provider have an acceptable procedure to identify customer parts?	x			
	b) Does the provider inspect and maintain traceability certification on all parts and raw materials?	x			
	c) Are incoming shipments checked to the requirements of the Repair or Purchase order?	x			
	d) Are inspected items properly segregated from material awaiting inspection?	x			

D	TECHNICAL DATA	Yes	No	N/A	Comments
1	Is a specific individual by title responsible for the Technical Publications Program?	x			
2	Does the Technical Publications department maintain a record of all manual revisions?	x			
3	Does the provider have the required technical data and or publications and the specification to perform the repair/overhaul OEM specifications?	x			
4	Are there established approved procedures controlling revisions in manuals deviating from OEM specifications?	x			



5	Are components overhaul manuals properly identified and available to all maintenance /QA personnel?	x		
6	Is there a system to control working copies of manuals to ensure they are revised with the master?	x		
7	Is technical data stored in a manner that will protect it from dirt and damage?	x		

Ε	CALIBRATED TOOLS	Yes	No	N/A	Comments
1	Does the provider have a calibrated tool program?	х			
2	Is a specific individual by title responsible for the Calibrated Tooling Program?	x			
3	Are all tools that require calibration on the Calibrated Tool List?	x			
4	Are all tools calibrated to NIST standards?	х			
5	Is there a system to identify each tool in the program, it's calibration frequency and it's calibration due date?	x			
6	Does the provider have a procedure for controlling and/ or preventing out-of-service and due-for-calibration tools and equipment from being used?	x			
7	Does the provider have a procedure to control the calibration of employee owned tools and gauges?	x			
8	Did a sample check of tooling indicate that the tooling is within calibration?	x			
9	Are the tools in serviceable condition, clean, and properly stored?	x			
10	In a sample comparison of the tools to the master tool list, did the due dates, P/N, etc. match?	x			
11	Do the records:	х			
	a) Show the date calibrated?	х			
	b) Identify vendor that performed calibration?	х			
	c) Show calibration due date and frequency?	х			
	d) Details of adjustments and repairs?	х			
	e) Show P/N and S/N of the standard used?	х			



F	MATERIALS/ PARTS/ SUPPLIES	Yes	No	N/A	Comments
1	Is access to stock room and material storage areas controlled to prevent unauthorized stocking or removal?	x			
2	Does provider have a quarantine area for rejected parts awaiting disposition?	x			
3	Does your company have a documented procedure to assure that scrapped parts are either returned to the customer or mutilated beyond repair?	x			
4	Do you maintain a record of all life limited parts that are scrapped for two years?	x			
5	Does the record include that part number and serial number of the part and the date scrapped?	x			
6	Do the parts in bins, plastic bags, etc., match the part numbers on the containers?	x			
7	Does the provider handle any ESD parts?			х	No ESD Parts
8	Are sensitive parts and equipment (O-rings, oxygen parts, ESD devices, etc.) properly packaged, identified and stored to prevent damage, contamination, electrostatic discharge and/or loss?	x			
9	Are controls adequate to properly segregate customer furnished material to assure its use in the intended end items?	x			
10	Are flammable, toxic or volatile materials properly identified and stored?	x			
11	For non-aircraft parts, materials and/or maintenance activities, are they adequately segregated from the aircraft function?	x			
12	Are high pressure bottles correctly labeled and properly stored and secured?	x			
13	Does the Repair Station provide material/parts certifications with every shipment?	x			

G	SHELF LIFE PROGRAM	Yes	No	N/A	Comments
1	Does the provider have a documented shelf life program?	х			
2	Does the program assign program responsibility to a specific person?	x			
3	Does the program list parts and matel1'als that have shelf life limits?	x			
4	Does each shelf life item have the shelf life expiration limit displayed and is the item properly identified?	x			



	Is there an adequate system to assure that no item will be			
5	issued or used past it's expiration date?	х		
6	Were items sampled for shelf life within limits?	x		

Η	TRAINING	Yes	No	N/A	Comments
1	Does the provider have a documented training program?	х			
2	Does the provider have sufficient training facilities/space and instructors, either employed or contracted?	x			
3	Does it include all mechanics, inspectors and technical supervisors?	x			
4	Does the training program employ a scheduling method that assures all required initial training is accomplished and recurrent training is accomplished on time?	x			
5	Are accurate files kept that contain all training certifications, OJT records and copies of certificates?	x			
6	Are special authorizations such as inspection and airworthiness releases identified and documented?	x			
7	Are training records for mechanics, inspectors and supervisors retained for two years after the person leaves the company?	x			
8	Does the Training Program include training in the knowledge and skills related to human performance	x			
9	Does the Training Program assure maintenance personnel with technical responsibilities have the requisite knowledge of regulations, standards and procedures?	x			
10	Does the Training Program include a training and qualification program for auditors used in the QA Program?	x			

I	FACILITIES	Yes	No	N/A	Comments
1	Does the facility meet all of the requirements for housing facilities and capabilities for work to be performed?	x			
2	Overall, are the work areas, shops, hangar and offices clean and orderly?	x			
3	Does your company provide adequate security for customer parts in its possession?	x			
4	Is the security system reviewed periodically by management or an outside vendor?	x			
5	Are components returned in an appropriate shipping container or as specified by the customer?	x			



1 1		1	1		1		
	Are "No Smoking" areas clearly identified and is the						
	provider in compliance with its State laws regarding						
6	authorized locations?	Х					
	Are there sufficient fire extinguishers, inspected annually by						
	the Fire Marshall or supplier and are monthly checks						
7	completed by provider management?	х					
	Are fire stations identified and can one be found easily						
8	from any work location?	x					
	Are fire lanes, doors, alarms, blankets, hoses, axes and						
9	extinguishers clear of obstructions?	x					
		^					
	Are safety guards in place on power equipment and is there						
10	evidence of periodic cleaning and inspections of the						
10	equipment operations?	х					
11	Does the provider maintain shop personnel safety records?	х					
	Are parts and materials properly identified and stored to						
12	prevent accidental falls, slips and trips?	х					
	Are oil and all liquid 55 gal drums kept in a containment						
	area after opening to prevent spills into the sewer/waste						
13	water system?	х					
	Are oil and other liquid 55 gal drums (non-plastic) properly						
14	grounded to prevent the possibility of sparks?	х					
15	Are spill kits or equivalent available for use?	х					
	Are there sufficient eye wash stations which are clearly						
	marked, clean and inspected routinely?						
16		х					
_		1	1				
	Do stands & ladders have the maximum weight placards or						
17	markings and the last inspection dates?	х					
	Are electrical boxes clearly identified and free from						
18	obstruction to access the doors?	х					
	Are oxygen and other high pressure bottles properly						
19	identified & stored, secured with chains or equivalent?	x					
20	Are first aid kits clearly identified?	x					
			I	1			



J	STORAGE	Yes	No	N/A	Comments
1	Does the provide have a facility of adequate size to house all necessary tooling, equipment, materials and parts?	x			
2	Does storage adequately protect parts, materials and customer's units from damage, theft and contamination?	x			
3	Is the environment appropriate to protect workers so the quality of the workmanship is not impaired?	x			
4	Do the facilities storage areas have adequate lighting?	х			
5	5 Is the storage separate from shop and work areas?	х			
6	Do shipping and receiving areas have adequate space, lighting, shelving, security and fire protection?	x			
	a) Is there space to safely store suitable shipping containers and protect them from damage?	x			

UNITED STATES OF AMERICA DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

# Air Agency Certificate

Number TH4R544M

This certificate is issued to

FLOATS AND FUEL CELLS

whose business address is

3615 AIR PARK MEMPHIS, TENNESSEE 38118

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 FLOAT LIMITED EMERGENCY EQUIPMENT LIMITED SPECIALIZED SERVICES

This certificate, unless canceled, suspended, or revoked,

shall continue in effect INDEFINITELY

Date issued:

OCTOBER 5, 1998 REISSUED NOVEMBER 18, 2014

JAMES D. DEAN MANAGER, MEMPHIS FSDO

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

SUPERSEDES FAA FORM 390.

nga global assurance

This is to certify that the Quality Management System of:

# **FFC Floats and Fuel Cells**

4010 Pilot Drive, Suite 103 Memphis TN 38118 United States of America

applicable to:

#### Design and Manufacture and Repair of fuel cells for all aircraft platforms

has been assessed and approved by National Quality Assurance, U.S.A., against the provisions of:

# ISO 9001:2015 and AS9100:2016

and in accordance with the requirements of AS9104/1:2012.

For and on behalf of NQA, USA



Certificate Number: 12986 EAC Code: 17 Certified Since: June 5, 2009 Valid Until: April 17, 2021 Reissued: April 18, 2018 Cycle Issued: April 18, 2018 Site Structure: Single Site

Page 1 of 1

This approval is subject to the company maintaining its system to the required standard, which will be monitored by NQA, USA, 289 Great Road, Suite 105, Acton, MA 01720, an accredited organization under the Aerospace Registrar Management Program.



Office of Aerospace Medicine Drug Abatement Division 800 Independence Ave., S.W. Washington, D.C. 20591

January 31, 2019

Jeanne Hogenbirk Human Resources Manager Floats & Fuel Cells, Inc 4010 Pilot Drive Suite 103 Memphis, TN 38118

Dear Ms. Hogenbirk:

We have processed your program registration renewal and a copy is enclosed. Your Registration number, **CONN671B**, has not changed.

Your program registration includes the following certificated repair stations or locations:

#	Name	Certificate #.	Location
1	Ffc Services Inc.	N2RR559Y	Memphis, TN
2	Float and Fuel Cells	TH4R544M	Memphis, TN

Please note that your registration will **expire on January 31, 2022** and we request that you submit a Renewed Registration prior to the date.

If you have any questions, please contact our office at (202) 267-8442 or drugabatement@faa.gov.

Sincerely, Famika Furner-Graydon For Margie Rustin Manager, Program Administration Branch Drug Abatement Division

Enclosure

	stion 🗹 Registration Rene-	wal (CONN 671B )	Registration	1 Amendmer	a (CONN 6/1B
ype of Company:	Contractor (if you are a part Air traffic control facility				
ompany Name: Floats	& Fuel Cells, Inc.				
hysical Address 4010 P	Pilot Drive Suite 1	03, Memphis, TN	38118		
Address	Berth	City		State	Zip
4010 P	Pilot Drive Suite 1	ogram records are kept at the ph		WEI-OFF	
Tailing Address: 40101 Address	not brive outo in	City	00110	State	Zip
		ogram records are kept at the m		sian	
tecords Address: 4010 P	Pilot Drive Suite 1	03, Memphis, TN	38118		
Address (The records address, if a	different, should be the loca	City tion where an inspection w	ould be held. N	State OT the addr	Zip ess of a service agen
174100000000000000000000		CONTRACTOR OF STREET			
ist DBA's and/or part 145 Floats & Fuel Cells TH4R5	certificates covered by th 544M FFC Service	his registration, if applic s N2RR559Y	able (use atta	chment if n	ecessary):
dentify the type of safety-se	ensitive function(s) inclu-	ded in your program:			
] Flight crewmember duties	Aircraft dispatch	er duties		ffic control o	
Flight attendant duties		coordinator duties		on screening	
Flight instruction duties	<ul> <li>Aircraft mainten maintenance dut</li> </ul>	and the second sec	A 1997		specialist duties
lease describe the safety-so	ensitive duties you plan to	o provide (use attachme	nt if necessary	, Aircra	nt line
maintenance and aircr	raft component main	tenance			
low many safety-sensitive of	employees will be covered	a by this stepher atoon.	'5		
udicate whether you are:	A Staffing Company	<u>الا الم</u>	Not A Staffing	Company	
Certification Statement:	I certify that I/my company	y will comply with 14 CF	R part 120 and	49 CFR pa	rt 40, If I am a
contractor, I certify that I in					
with authority to operate un				he FAA or I	sy or under
chronitetoril fra fina d' 5, multificare					
contract to the U.S. military		IN A	Date: 0	1/24/20	19
Signature: Sea					
Signature: Authorized Repe	resentative (Service Agents m				
Signature: Authorized Repe Print Name: Jeann	resentative (Service Agents m The Hogenbirk	ay not sign for company) Title	Human Res		
Signature: Authorized Repe Print Name: Jeann	resentative (Service Agents m The Hogenbirk	ay not sign for company) Title	Human Res		
Signature: Authorized Repe Print Name: Jeann Telephone: Business - 90	resentative (Service Agents m The Hogenbirk	ay not sign for company) Title nile - 901-842-714	Human Res		
Signature: Authorized Repo Print Name: Jeann Telephone: Business - 90 E-mail address: Jhoger	ne Hogenbirk 101-842-7114 nbirk@ffcfuelcells	ay not sign for company) Title mile - 901-842-714 S.COM	Human Res		
Signature: Authorized Repe Print Name: Jeann Telephone: Business - 90 E-mail address: Jhoger end form to: Federal Av	ne Hogenbirk 01-842-7114 Facsio	ay not sign for company) Title nile - 901-842-714 S.COM Prug Abatement Division	Human Res		
Signature: Authorized Repe Print Name: Jeann Telephone: Business - 90 E-mail address: Jhoger end form to: Federal Av 800 Indepe Washingto	resentative (Service Agents in the Hogenbirk 01-842-7114 Facsis nbirk@ffcfuelcells viation Administration, D endence Avenue, S.W., R on, DC 20591	ay not sign for company) Title nile - 901-842-714 5.COM Prug Abatement Division aom 806	Human Res	sources Mr	mager
Signature: Authorized Repe Print Name: Jeann Telephone: Business - 90 E-mail address: Jhoger end form to: Federal Av 800 Indepe Washingto	resentative (Service Agents in the Hogenbirk D1-842-7114 Facsian nbirk@ffcfuelcells viation Administration, D endence Avenue, S.W., R on, DC 20591 per - (202) 267-5200; Ema	ay not sign for company) Title nile - 901-842-714 5.COM Prug Abatement Division aom 806 il - drugabatement@faa	Human Res 7 Cell	sources Ma	mager
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Signature: Authorized Repe Print Name: Jeann Telephone: Business - 90 E-mail address: Jhoger end form to: Federal Av 800 Indepe Washingto	resentative (Service Agents in the Hogenbirk 01-842-7114 Facsis nbirk@ffcfuelcells viation Administration, D endence Avenue, S.W., R on, DC 20591 per - (202) 267-5200; Ema DO NOT WI	ay not sign for company) Title nile - 901-842-714 5.COM Prug Abatement Division aom 806 il - drugabatement@faa	Human Res 7 Cell - (AAM-810) R FAA USE	amber - (20 ONLY	inager



Karl Specht Maintenance Organisation Oversight Section Manager Flight Standards Directorate

2019(D) Adonis no.50001 KSP/ape/FS.1.4 Cologne, 18.01.2019 The Quality Manager Floats and Fuel Cells 4010 Pilot Drive Suite 103 Memphis, Tennessee 38118 United States of America

Subject:

#### Renewal of EASA Part-145 approval

Reference: Attachment: L6/Rev 1/EASA.145.4448/FAA.TH4R544M EASA Part-145 approval certificate

Dear Sir or Madam,

Following a positive recommendation from the **FAA** the European Aviation Safety Agency hereby confirms the renewed validity of your EASA Part-145 approval until **01 February 2021**, subject to continued compliance with FAR 145 and the EASA special conditions in accordance with the Agreement between the United States of America and the European Community on Cooperation in the Regulation of Civil Aviation Safety and the Maintenance Annex Guidance (MAG):

#### **Floats and Fuel Cells**

EASA Part-145 Approval certificate reference number:

#### EASA.145.4448

You are reminded that you will be required to submit your next renewal paperwork package in accordance with the MAG which is available on our web site at <u>www.easa.europa.eu</u>.

Yours faithfully

Karl Specht



TE.GEN.00101-005

Postal address: Postfach 10 12 53 50452 Cologne, Germany Visiting address: Konrad-Adenauer-Ufer 3 · 50668 Cologne, Germany

 Tel.: +49 221 89990 6047

 E-mail: foreign145@easa.europa.eu

 Web: www.easa.europa.eu

 ISO 9001 Certified



### **U.S. APPROVAL CERTIFICATE**

#### EASA.145.4448

Taking into account the provisions of Article 12 of Regulation (EC) 216/2008 of the European Parliament and of the Council and the bilateral agreement currently in force between the European Community and the Government of the United States of America, the European Aviation Safety Agency (EASA) hereby certifies:

#### **Floats and Fuel Cells**

FAA NUMBER: TH4R544M 3615 Air Park Memphis, Tennessee 38118 United States of America

as a Part-145 maintenance organization approved to maintain the products listed in the FAA Air Agency Certificate and associated Operations Specifications and issue related certificates of release to service using the above reference, subject to the following conditions:

- 1. The scope of the approval is limited to that specified on the 14 CFR part 145 repair station Air Agency Certificate, and the associated Operations Specifications for work carried out in the United States (unless otherwise agreed in a particular case by EASA).
- 2. The approval scope shall not exceed the permitted EASA Part-145 ratings as detailed in Regulation EC (No) 1321/2014.
- 3. This approval requires continued compliance with 14 CFR part 145 and the differences as specified in the Maintenance Annex Guidance (MAG), including the use of the FAA Form 8130-3 for release/return to service of components up to and including power plants.
- 4. Certificates of return to service must quote the EASA Part-145 approval reference number quoted above and the 14 CFR part 145 Air Agency Certificate number.
- 5. Subject to compliance with the foregoing conditions, this approval shall remain valid until:

#### 01 February 2021

unless the approval is surrendered, superseded, suspended or revoked.

Date of issue: 18 January 2019

Signed

For FAS



This capability list provides compliance with the requirements outlined in 14 CFR §145.215. This list provides a supplement to the FFC Repair Station Operations Specifications that indicates the articles this repair station is authorized to perform maintenance, preventive maintenance, or alterations under the relevant ratings.

Revisions to this Capability List will be performed consistent with the Repair Station Manual requiring "Acceptance" by the local FAA FSDO. Before additions are made to this list, the Director, Quality Assurance will ensure this repair station has adequate housing, facilities, equipment, material, technical data, processes, and trained personnel in place to perform the work on the article as required by part 145.

Revision Date	Comments
Rev. IR 3/15/2017	Edited List of Effective pages. Added Eagle Technologies Company and Meggitt.

Page Number Pages 1-2

#### LEP/ Record of Revisions:



FFC Capability List FFC-200-01-0000016 Revision Date: 3/15/2017 Rev.I/R Page 1



APPLIANCE	MANUFACTURER	CONSTRUCTION TYPE
Fuel Cell: All Bladder Type, Crashworthy & Self- Sealing	Goodyear/Loral/Engineered Fabric/ Meggitt	FTL & OTL Series, FTL-102, FTL-103, FTL-107 (Nitrile) BTC-12, BTC-17 (Nitrile) BCT-49, BTC-54, BTC-54A (Vithane) BTC-67, BTC-69, BTC-69-1 (Vithane)
		BTC-72, BTC-85, BTC-85-1 (Vithane) BTC,-86, 88, BTC-86-1 (Vithane) BTC-99, BTC-101, BTC-101-3 (Vithane) PLIOCEL B, C, D, E (Nylon)
Fuel Celt All Bladder Type, Crashworthy & Self- Sealing	U.S. Rubber/Uniroyal/ Amfuel	US-538N,US-584,US-566R,US-588,US-943 (Nitrile) US534N1, US575, US577A, US581, US566RLL, (Nitrile) US570N, US-570-1, US-571, US572-2, US-577AL, (Nitrite) US-58112, US-759, US-764, US5-766, US-767,US-768, (Nitrite) US-769, US-770, US-965, US-975. (Nitrile)
Fuel Cell: All Bladder Type. Crashworthy & Self-Sea	Firestone/Amfuel	"Line-A-Cell" 1567, All types (Nitrile)
Fuel Cell: All Bladder Type, Crashworthy & Self-Sea	Aero Tech Services	201/Nitrile Construction
Fuel Cell: All Bladder Type, Crashworthy & Self-Sea	FPT Industries LTD	Hycalite, Hycatrol, Hycalam series (Nitrile)
Fuel Cell: All Bladder Type, Crashworthy & Self-Sea	Yokohoma Rubber Co.	V-3926/Nitrile
Fuel Cell: All Bladder Type, Crashworthy & Self-Sea	B.F.Goodrich	Nitrite construction
Fuel Cell: All Bladder Type, Crashworthy & Self-Sea	Klieber Industries	All types/Nitrile construction
Fuel Cell: All Bladder Type, Crashworthy & Self-Sea	SuperFlexit	6TF12A/ Nitrile, All types
Fuel Cell: All Bladder Type, Crashworthy & Self-Sea	FFC Manufacturing	2393 Nitrite, 2315/ Urethane/ P2529 Nitrite
Fuel Cell: All Bladder Type, Crashworthy & Self-Sea	Pirelli	AAT 4, All types (Nitrile)
Fuel Cell: All Bladder Type. Crashworthy & Self-Sea	Fuel Cells, Inc	All types/Mile construction
Fuel Cell: All Bladder Type, Crashworthy & Self-Sea	AC Fuel Cells VVorldwide / AC Team	All types/Nitrile construction
Fuel Cell: All Bladder Type, Crashworthy & Self-Sea	Aerozur	All construction types (Nitrile)
Fuel Cell: All Bladder Type, Crashworthy & Self-Sea	Marston	Nitrite construction
Fuel Cell: All Bladder Type, Crashworthy & Self-Sea	Dunlop Rubber	Flexelite F66/Nitrile
Helicopter Floats	Aerazur	Neoprene and Urethane
Helicopter Floats	Air Cruiser/Garrett/Zodiac	Neoprene and Urethane
Helicopter Floats	JCR Industries	Neoprene
Helicopter Floats	B.F.Goodrich/SMR Technologies	Neoprene and Urethane
Helicopter Floats	FPT Industries	Neoprene
Helicopter Hosts	Air Float Systems	Neoprene and Urethane
Helicopter Floats	California Inflatables	Urethane
Life Rafts and Life Vests	Air Cruiser/Garrett/Zodiac	AD-8, AD-8F, AD-8H, Airline Liferafts
Life Rafts and Life Vests	JCR Industries, Inc	SMV2
Life Rafts and Life Vests	EAM	EAM-T, T2, T4, T6, T9
Life Rafts and Life Vests	Switlik	LWC-4101, LWC-6101, LWC-8101, RP-4101, RP-6101, RP- 8101
Removable Integral Fuel Tanks	Piper Models PA-32/PA-28	PA-28/PA-32 All series: IAW Stc's SA01831AT-D & SA01121AT-D
Integral Fuel Tanks	Mooney Models	M20 all series, M22 all series: IAW FFC Repair Procedure M2X-2810-002
Fuel Cell Bladder Type	Eagle Technologies Company	EMS7

#### Table of Contents

#### Part A

	HQ CONTROL DATE	EFFECTIVE DATE	AMENDMENT NUMBER
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	DATE	DATE	NUMBER
100 Work to be Performed at a Place Other Than the Repair Station Fixed Location(s)	11/16/2004	02/27/2019	0

**Operations Specifications** 

#### A001 . Issuance and Applicability

HQ Control: 02/11/2016 HQ Revision: 05e

a. These operations specifications are issued to Floats and Fuel Cells, 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:	Mailing Address:
3615 Airpark	4010 Pilot Drive
Memphis, Tennessee 38118	Suite 103
•	Memphis, Tennessee 38118

b. The holder of these operations specifications is the holder of certificate number TH4R544M 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. The repair station specified on these operations specifications and located within the United States performs maintenance and/or an alteration of aircraft and/or aeronautical products to be installed on 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 use only the business name which appears on the certificate to conduct the operations described in subparagraph a.

Delegated authorities: None

**Operations Specifications** 

1. Issued by the Federal Aviation Administration.

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



Digitally signed by David D Hays, Principal Maintenance Inspector (CE21) [1] EFFECTIVE DATE: 2/23/2017, [2] AMENDMENT #: 11 DATE: 2017.03.01 10:32:08 -06:00

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

Digitally signed by Dale R Rosson, QA Manager [1] SUPPORT INFO: Change of accountable manager DATE: 2017.02.23 14:19:01 -06:00

#### 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	The manager who has corporate authority for ensuring that all	
Manager	maintenance required by the customer can be financed and carried out to the standard required by the EASA full-member Authority.	
Manager EU		
-	to the standard required by the EASA full-member Authority.	
EU	to the standard required by the EASA full-member Authority. European Union An authorization that permits an alternate means of compliance with a specific CFR. The exemption must meet the procedural requirements	

U.S. Department of Transportation Federal Aviation Administration	Operations Specifications		
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.		
МІР	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).		
ΜΟΕ	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.		

U.S. Department of Transportation Federal Aviation Administration	Operations Specifications
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 Daniel P Merrell, Principal Maintenance Inspector (CE21) [1] EFFECTIVE DATE: 2/28/2019, [2] AMENDMENT #: 10 DATE: 2019.02.28 08:42:52 -06:00

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

Digitally signed by Dale R Rosson, QA Manager DATE: 2019.02.28 09:17:10 -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**

None authorized

#### Limited Ratings

<u>Rating</u>	<u>Manufacturer</u>	<u>Make/Model</u>	<u>Limitations</u>
Emergency Equipment	From the accepted Capability List, as amended.	From the accepted Capability List, as amended.	
Floats	From the accepted Capability List, as amended.	From the accepted Capability List, as amended.	

#### Limited Ratings - Specialized Services

# RatingSpecificationsLFrom the<br/>acceptedFCC Engineering Order A-2811-001, as revised.UFloats & Fuel Cell Process Spec. #FFC280-1996,<br/>p CapabilitiespAirForceTO1-1-3, FFC28-1995, FFC-R-100 & 69-<br/>210, ACWW-1,-2,-3,-4,-5, &-7. PS2810-001 &<br/>M2X-2810-002, as rev.CDull UniversityFuel Cell Process Spec. #FFC280-1996,<br/>p Data as rev.PCapabilities<br/>AirForceTO1-1-3, FFC28-1995, FFC-R-100 & 69-<br/>210, ACWW-1,-2,-3,-4,-5, &-7. PS2810-001 &<br/>M2X-2810-002, as rev.C

Bell Helicopter Floats & Fuel Cell Process Spec. B-2811-001, as fuel cross over rev, tubes

#### **Limitations**

Use the methods, techniques, and practices prescribed in the current manufacturers maintenance manual or Instructions for Continued Airworthiness, or other methods, techniques, and practices acceptable to the Administrator.

Use the methods, techniques, and practices prescribed in the current manufacturers maintenance manual or Instructions for Continued Airworthiness, or other methods, techniques, and practices acceptable to the Administrator.

**Operations Specifications** 

1. Issued by the Federal Aviation Administration.

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



Digitally signed by David D Hays, Principal Maintenance Inspector (CE21) [1] EFFECTIVE DATE: 5/22/2017, [2] AMENDMENT #: 3 DATE: 2017.06.07 06:05:08 -05:00

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

Digitally signed by Dale R Rosson, QA Manager DATE: 2017.05.22 13:04:09 -05:00

#### A004 . <u>Summary of Special Authorizations and Limitations</u> HQ Control: 09/23/1998 HQ Revision: 010

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

		Reference Paragraphs
I	Conduct operations choosing to have an antidrug and alcohol misuse prevention program.	A449
1	Perform work, excluding continuous operations, at additional locations other than t its primary Fixed Location.	D100

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

Use Exemptions.	Reference Paragraphs A005
Use an acceptable electronic recordkeeping system, electronic/digital signature, and/or electronic media.	A025
Perform maintenance with ratings for repair stations located outside the United States under a Bilateral Aviation Safety Agreement with Maintenance Provisions.	A060
Perform work, including continuous operations, at additional locations other than at its primary fixed location.	A101
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 non-U.S. registered aircraft in common carriage under Part 129, apart from D100 which authorizes that work away from station.	D107

**Operations Specifications** 

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



Digitally signed by Daniel P Merrell, Principal Maintenance Inspector (CE21) [1] EFFECTIVE DATE: 2/28/2019, [2] AMENDMENT #: 16 DATE: 2019.02.28 08:43:40 -06:00

3. I hereby accept and receive the Operations Specifications in this paragraph. Digitally signed by Dale R Rosson, QA Manager DATE: 2019.02.28 09:18:11 -06:00

#### 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.

<b>Table 1 – Designated</b>	Persons to	Apply for	and Receive	Authorizations

Title	Name	Parts Authorized
EASA Accountable Manager, 145 / President / COO	Tavoleti, Fred	A,B,D
Director of Quality Assurance / QA Manager	Rosson, Dale	A,B,D
FAA Accountable Manager, 145 / Repair Station Manager	Byers, Jesse	A,B,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.

Name	Email Address	Telephone No.	Type of Information to Receive
Rosson, Dale	drosson@ffcfuelcells.com	9018427139	ALL
Tavoleti, Fred	ftavoleti@ffcfuelcells.com	9018427144	ALL
Byers, Jesse	jbeyers@ffcfuelcells.com	9018427119	ALL

Table 2 – Designated to Receive INFO Messages

**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 Daniel P Merrell, Principal Maintenance Inspector (CE21) [1] EFFECTIVE DATE: 6/17/2019, [2] AMENDMENT #: 18 DATE: 2019.06.17 10:33:52 -05:00

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

Digitally signed by Dale R Rosson, QA Manager [1] SUPPORT INFO: Change of Accountable Manager DATE: 2019.06.17 09:00:05 -05:00

#### 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:	A2 CONN671B	
Address:	3615 Air Park Street	
Address:		
City:	Memphis	
State:	TN	
Zip code:	38118	

- d. Limitations and Provisions.
  - 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.

**Operations Specifications** 

1. Issued by the Federal Aviation Administration.

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



Digitally signed by David D Hays, Principal Maintenance Inspector (CE21) [1] SUPPORT INFO: Update with Dale Rosson signature [2] EFFECTIVE DATE: 5/2/2017, [3] AMENDMENT #: 7 DATE: 2017.05.02 13:38:53 -05:00

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

Digitally signed by Dale R Rosson, QA Manager DATE: 2017.05.02 13:25:50 -05:00

#### D100. Work to be Performed at a Place Other Than the Repair HQ Control: 11/16/2004 Station Fixed Location(s) 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
Fuel Stand Test	R-100: 6.5; Fuel Stand Test	FFC Repair Station Manual & Quality Manual; 2.3.8 - Work Performed Away From Station

- b. The certificate holder <u>may not perform continuous</u> operation at a facility other than the station's Fixed Location listed in paragraph A001, and paragraph A101 if issued.
- c. <u>Line Stations</u>. 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.

**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 Daniel P Merrell, Principal Maintenance Inspector (CE21) [1] EFFECTIVE DATE: 2/27/2019, [2] AMENDMENT #: 0 DATE: 2019.02.28 08:44:56 -06:00

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

Digitally signed by Dale R Rosson [1] SUPPORT INFO: Fuel Stand Test DATE: 2019.02.27 15:35:44 -06:00