



FFC Services  
4010 Pilot Dr. Suite 103  
Memphis, TN 38118  
Phone: 901-842-7110. Fax: 901-842-7135  
[www.ffcfuelcells.com](http://www.ffcfuelcells.com)

FAA REPAIR STATION N2RR559Y – A SUBSIDIARY OF LINDEN STREET CAPITAL CORPORATION

Date: January 2019

Re: Response to Supplier/ Vendor Audit Evaluation/Survey

Dear Customer,

At FFC Services we have consolidated a package for our Aircraft Maintenance Repair Station. This package includes a copy of the following:

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

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

Best Regards,

**Dale Rosson**  
**Quality Manager**  
**FFC Services**  
**Office:** 901-842-7110  
**Email:** [drosson@ffcfuelcells.com](mailto:drosson@ffcfuelcells.com)



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**Company Information/Contacts**

Name	FFC Services
Address	4010 Pilot Dr. Suite 103
City, State	Memphis, TN 38118
Phone	901-842-7110
Fax	901-842-7135
Website	<a href="http://www.ffc-fuel-bladders.com">www.ffc-fuel-bladders.com</a>

Organization Personnel	
President	Fred Tavoleti
Quality Manager	Dale Rosson
Sales Manager	Bill Arthur

Business Type	Aircraft Maintenance Repair Station
Certificates	Cert. Number
FAA	N2RR559Y
Drug/Alcohol	CONN671B
ISO 9001	13577

Major Customers	Fed Ex, American Airlines, U S Airways
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A	GENERAL	Yes	No	N/A	Comments
<b>1</b>	Does the provider hold an FAA Air Agency or Transport Canada AMO Certificate?	x			14 CFR Part 145 Air Agency Certificate
	a) Certificate # N2RR559Y	x			
	b) Operation Specifications attached	x			
<b>2</b>	Does the Provider only perform work for which it is authorized on it's Op Spec?	x			
<b>3</b>	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.
<b>4</b>	Does the repair station observe duty time limitations?	x			FFCS utilizes a fatigue management program with customer approval required.

B	QUALITY ASSURANCE	Yes	No	N/A	Comments
<b>1</b>	Is there an established Quality Control Program?	x			FFCS is 14 CFR Part 145 and AS9110 Certificated.
<b>2</b>	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	x			
	b) Is the manual current and available to employees in acceptable formats: i.e. paper, CDROM, intra net?	x			FFCS uses a dedicated intranet web site as it's regulatory library for the field.
<b>3</b>	Does the provider have an internal audit and surveillance function?	x			
	a) Do you have an established schedule?	x			FFCS has a monthly schedule of internal audits that cover Part 145 and ISO Standards
	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			
<b>4</b>	Do you maintain a file of audit findings and corrective actions for 3 years?	x			



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<b>5</b>	Does the provider have an established procedure to ensure segregation of military and commercial parts/components?		x		FFCS does not purchase or house any aircraft components or articles.
<b>6</b>	Does your company maintain an approved vendors list?	x			
	a) Do Receiving Inspection and Purchasing Department receive copies of the approved vendor's list?	x			
<b>7</b>	Does the provider have a procedure for reporting defects or nonairworthy conditions to the FAA concerning significant findings within 96 hours of the discovery?	Dale Rosson			

<b>C</b>	<b>INSPECTION</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>	<b>Comments</b>
<b>1</b>	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			
<b>2</b>	Does the provider ensure a proper separation of maintained and inspection responsibilities if they perform required inspections?	x			
<b>3</b>	Does the provider maintain an up to date roster of persons authorized to conduct required inspections and any restrictions imposed?	x			
<b>4</b>	Does the provider maintain a roster that identifies all personnel authorized for return to service?	x			
<b>5</b>	Does the roster maintain a roster identifying all supervisory and inspection personnel?	x			
<b>6</b>	If stamps are used, is there an acceptable system for the control of stamps for authorized personnel?			x	No stamps used
<b>7</b>	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			



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D	TECHNICAL DATA	Yes	No	N/A	Comments
1	Is a specific individual by title responsible for the Technical Publications Program?			x	FFCS maintains no technical documentation. All approved data provided by the customer on a job by job basis.
2	Does the Technical Publications department maintain a record of all manual revisions?			x	See above.
3	Does the provider have the required technical data and or publications and the specification to perform the repair/overhaul OEM specifications?			x	See above.
4	Are there established approved procedures controlling revisions in manuals deviating from OEM specifications?			x	See above.
5	Are components overhaul manuals properly identified and available to all maintenance /QA personnel?			x	See above.
6	Is there a system to control working copies of manuals to ensure they are revised with the master?			x	See above.
7	Is technical data stored in a manner that will protect it from dirt and damage?			x	See above.

E	CALIBRATED TOOLS	Yes	No	N/A	Comments
1	Does the provider have a calibrated tool program?	x			
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?	x			
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			



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<b>8</b>	Did a sample check of tooling indicate that the tooling is within calibration?	x			
<b>9</b>	Are the tools in serviceable condition, clean, and properly stored?	x			
<b>10</b>	In a sample comparison of the tools to the master tool list, did the due dates, P/N, etc. match?	x			
<b>11</b>	Do the records:	x			
	a) Show the date calibrated?	x			
	b) Identify vendor that performed calibration?	x			
	c) Show calibration due date and frequency?	x			
	d) Details of adjustments and repairs?	x			
	e) Show P/N and S/N of the standard used?	x			

<b>F</b>	<b>MATERIALS/ PARTS/ SUPPLIES</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>	<b>Comments</b>
<b>1</b>	Is access to stock room and material storage areas controlled to prevent unauthorized stocking or removal?			x	All parts supplied by the customer. Procedures in place for consumables.
<b>2</b>	Does provider have a quarantine area for rejected parts awaiting disposition?			x	No parts acquired or held by FFCS.
<b>3</b>	Does your company have a documented procedure to assure that scrapped parts are either returned to the customer or mutilated beyond repair?	x			
<b>4</b>	Do you maintain a record of all life limited parts that are scrapped for two years?			x	No parts acquired or held by FFCS.
<b>5</b>	Does the record include that part number and serial number of the part and the date scrapped?			x	No parts acquired or held by FFCS.
<b>6</b>	Do the parts in bins, plastic bags, etc., match the part numbers on the containers?			x	No parts acquired or held by FFCS.
<b>7</b>	Does the provider handle any ESD parts?			x	No parts acquired or held by FFCS.
<b>8</b>	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	No parts acquired or held by FFCS.
<b>9</b>	Are controls adequate to properly segregate customer furnished material to assure its use in the intended end items?			x	No parts acquired or held by FFCS.
<b>10</b>	Are flammable, toxic or volatile materials properly identified and stored?			x	No parts acquired or held by FFCS.
<b>11</b>	If your company deals in non-aircraft parts, materials and/or maintenance activities, are they adequately segregated from the aircraft function?			x	No parts acquired or held by FFCS.



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<b>12</b>	Are high pressure bottles correctly labeled and properly stored and secured?			x	No high pressure bottles owned or maintained by FFCS.
<b>13</b>	Does the Repair Station provide material/parts certifications with every shipment?			x	No parts acquired or held by FFCS.

<b>G</b>	<b>SHELF LIFE PROGRAM</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>	<b>Comments</b>
<b>1</b>	Does the provider have a documented shelf life program?	x			Program in place, but rarely used for minor amounts of sealant.
<b>2</b>	Does the program assign program responsibility to a specific person?	x			See above.
<b>3</b>	Does the program list parts and materials that have shelf life limits?	x			See above.
<b>4</b>	Does each shelf life item have the shelf life expiration limit displayed and is the item properly identified?	x			See above.
<b>5</b>	Is there an adequate system to assure that no item will be issued or used past its expiration date?	x			See above.
<b>6</b>	Were items sampled for shelf life within limits?	x			See above.

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





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	procedures?				
<b>10</b>	Does the Training Program include a training and qualification program for auditors used in the QA Program?	x			

<b>I</b>	<b>FACILITIES</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>	<b>Comments</b>
<b>1</b>	Does the facility meet all of the requirements for housing facilities and capabilities for work to be performed?			x	All work performed by FFC is off-site at customer locations.
<b>2</b>	Overall, are the work areas, shops, hangar and offices clean and orderly?			x	
<b>3</b>	Does your company provide adequate security for customer parts in its possession?			x	
<b>4</b>	Is the security system reviewed periodically by management or an outside vendor?			x	
<b>5</b>	Are components returned in an appropriate shipping container or as specified by the customer?			x	
<b>6</b>	Are "No Smoking" areas clearly identified and is the provider in compliance with its State laws regarding authorized locations?			x	
<b>7</b>	Are there sufficient fire extinguishers, inspected annually by the Fire Marshall or supplier and are monthly checks completed by provider management?			x	
<b>8</b>	Are fire stations identified and can one be found easily from any work location?			x	
<b>9</b>	Are fire lanes, doors, alarms, blankets, hoses, axes and extinguishers clear of obstructions?			x	
<b>10</b>	Are safety guards in place on power equipment and is there evidence of periodic cleaning and inspections of the equipment operations?			x	
<b>11</b>	Does the provider maintain shop personnel safety records?			x	
<b>12</b>	Are parts and materials properly identified and stored to prevent accidental falls, slips and trips?			x	
<b>13</b>	Are oil and all liquid 55 gal drums kept in a containment area after opening to prevent spills into the sewer/waste water system?			x	



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<b>14</b>	Are oil and other liquid 55 gal drums (non-plastic) properly grounded to prevent the possibility of sparks?			x
<b>15</b>	Are spill kits or equivalent available for use?			x
<b>16</b>	Are there sufficient eye wash stations which are clearly 1/ marked, clean and inspected routinely?			x
<b>17</b>	Do stands & ladders have the maximum weight placards or markings and the last inspection dates in a conspicuous II' location?			x
<b>18</b>	Are electrical boxes clearly identified and free from obstruction to access the doors?			x
<b>19</b>	Are oxygen and other high pressure bottles properly identified & stored, secured with chains or equivalent?			x
<b>20</b>	Are first aid kits & blankets clearly identified and free from			x

J	STORAGE	Yes	No	N/A	Comments
<b>1</b>	Does the provide have a facility of adequate size to house all necessary tooling, equipment, materials and parts?			x	FFCS does not store parts.
<b>2</b>	Does storage adequately protect parts, materials and customer's units from damage, theft and contamination?			x	
<b>3</b>	Is the environment appropriate to protect workers so the quality of the workmanship is not impaired?			x	
<b>4</b>	Do the facilities storage areas have adequate lighting?			x	
<b>5</b>	5 Is the storage separate from shop and work areas?			x	
<b>6</b>	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* N2RR559Y

*This certificate is issued to*

**FFC SERVICES INC.**

*whose business address is*

**4010 PILOT DRIVE, SUITE 103  
MEMPHIS, TN 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 AIRFRAME  
LIMITED SPECIALIZED SERVICES**


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

*Date issued:*

**June 01, 1999**

**Revised September 29, 2005**

*By direction of the Administrator*

  
**JAMES D. DEAN**

**Manager, Memphis FSDO-21**

**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**



This is to certify that the Quality Management System of:

**FFC Services**

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

applicable to;

**FAA Certified Repair Station with emergency response and Operations Control Center**

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

**ISO 9001:2015 and AS9110:2016**

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

For and on behalf  
of NQA, USA



Certificate Number: 13577

EAC Code: 21

Certified Since: December 3, 2010

Valid Until: November 24, 2019

Reissued: September 20, 2017

Cycle Issued: November 25, 2016

Site Structure: Single Site



U.S. Department  
of Transportation  
**Federal Aviation  
Administration**

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](mailto:drugabatement@faa.gov).

Sincerely,

*Tamika Turner-Graydon*

For Margie Rustin  
Manager, Program Administration Branch  
Drug Abatement Division

Enclosure

**FAA DRUG AND ALCOHOL TESTING PROGRAM REGISTRATION (sample form)**

(Document is located at: [http://www.faa.gov/about/office\\_org/headquarters\\_offices/avs/offices/aam/drug\\_alcohol/testing/media/RegistrationForm.pdf](http://www.faa.gov/about/office_org/headquarters_offices/avs/offices/aam/drug_alcohol/testing/media/RegistrationForm.pdf))

Check one:  New Registration  Registration Renewal (CONN 671B)  Registration Amendment (CONN 671B)

Type of Company:  Contractor (if you are a part 145 certificate holder, list certificate numbers to be covered under this registration below)  
 Air traffic control facility not operated by the FAA or by or under contract to the U.S. Military

Company Name: Floats & Fuel Cells, Inc.

Physical Address: 4010 Pilot Drive Suite 103, Memphis, TN 38118  
Address City State Zip  
 Check box, if your program records are kept at the physical address location

Mailing Address: 4010 Pilot Drive Suite 103, Memphis, TN 38118  
Address City State Zip  
 Check box, if your program records are kept at the mailing address location

Records Address: 4010 Pilot Drive Suite 103, Memphis, TN 38118  
Address City State Zip  
(The records address, if different, should be the location where an inspection would be held, NOT the address of a service agent.)

List DBA's and/or part 145 certificates covered by this registration, if applicable (use attachment if necessary):

Floats & Fuel Cells TH4R544M FFC Services N2RR559Y

Identify the type of safety-sensitive function(s) included in your program:

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Flight crewmember duties  | <input type="checkbox"/> Aircraft dispatcher duties  | <input type="checkbox"/> Air traffic control duties           |
| <input type="checkbox"/> Flight attendant duties   | <input type="checkbox"/> Ground security coordinator duties  | <input type="checkbox"/> Aviation screening duties            |
| <input type="checkbox"/> Flight instruction duties | <input checked="" type="checkbox"/> Aircraft maintenance or preventive maintenance duties (as defined in 14 CFR part 43) | <input type="checkbox"/> Operations control specialist duties |

Please describe the safety-sensitive duties you plan to provide (use attachment if necessary). Aircraft line maintenance and aircraft component maintenance

How many safety-sensitive employees will be covered by this Registration: 75  
Indicate whether you are:  A Staffing Company  Not A Staffing Company

Certification Statement: I certify that I/my company will comply with 14 CFR part 120 and 49 CFR part 40. If I am a contractor, I certify that I intend to provide safety-sensitive functions, directly or by contract, to a part 119 certificate holder with authority to operate under part 121 or 135, an air traffic control facility not operated by the FAA or by or under contract to the U.S. military, or an Air Tour Operator conducting flights under part 91.147.

Signature: Jeanne Hogenbirk Date: 01/24/2019  
Authorized Representative (Service Agents may not sign for company)

Print Name: Jeanne Hogenbirk Title: Human Resources Manager

Telephone: Business - 901-842-7114 Facsimile - 901-842-7147 Cell - \_\_\_\_\_

E-mail address: jhogenbirk@ffcfuelcells.com

Send form to: Federal Aviation Administration, Drug Abatement Division (AAM-810)  
800 Independence Avenue, S.W., Room 806  
Washington, DC 20591  
Fax Number - (202) 267-5200; Email - [drugabatement@faa.gov](mailto:drugabatement@faa.gov) Office Number - (202) 267-8442;

**DO NOT WRITE BELOW - FOR FAA USE ONLY**

FAA Registration number: CONN 671B Registered by: Tamika Turner-Graydon

Date Registered/Amended/Renewed: 1/31/2019 Expiration Date: 1/31/2022



**4010 Pilot Dr. Suite 103  
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901-842-7101**

**FAA Approved Repair Station N2RR559Y**  
[www.ffc-fuel-bladders.com](http://www.ffc-fuel-bladders.com)

**FFCS  
Capability List**

**APPROVAL:** *Duke Rosson*  
**Quality Manager**

**Date: 3/07/2019**



## **FFCS Capability List**

Section Name: Table of Contents	Page 1 of 1
Section Number: i	Manual Number: FFCS-650-01-015
Revision Status: Rev.12	Date Revised: 3/07/2019

### *i. Table of Contents*

<b>Description/Title</b>	<b>Section</b>
<i>Table of Contents</i>	<i>i</i>
<i>General Information</i>	<i>1.0</i>
<i>Revision Control /List of Effective Pages</i>	<i>2.0</i>
<i>Capability List</i>	<i>3.0</i>





## FFCS Capability List

Section Name: General Information	
Section Number: 1.0	Page 1 of 1
Revision Status: Rev.12	Manual Number: FFCS-650-01-015
	Date Revised: 3/07/2019

### 1.0 General Information

**Purpose:**

*This Capability List identifies each article that is acceptable to the FAA for the performance of maintenance, preventative maintenance or alterations. Maintenance performed on the below listed aircraft or systems will be performed consistent with applicable Federal Aviation Regulations, the Repair Station Manual/ Quality Control Manual of FFCS and other FAA Approved Data.*

**Procedures:**

*Revisions to the Capability List will be performed consistent with the RSQM for an "accepted" manual by the local FAA FSDO. Before additions are made to this list, the Quality Manager 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 14 CFR Part 145.*

Maintenance performed by FFC Services, Inc., consists of:

*Maintenance, inspection, repair and or overhaul of aircraft integral fuel systems; removal, replacement, reinstallation and calibration of associated fuel system components, sheet metal repairs limited to adjacent wing and fuselage areas incidental to integral fuel tank repair in accordance with air carrier manuals, current manufacturers data and or other data approved by the administrator.*

\* "Data" and additional Tech Data may include:

- AMM (Aircraft Maintenance Manual)
- SRM (Structural Repair Manual)
- IPC (Illustrated Parts Catalog)
- EO's (Engineering Orders)
- EA's (Engineering Authorizations)
- GMM (Air Carrier General Maintenance Manual)
- GPM (General Procedures Manual)
- ESO's (Engineering Service Orders)

\*\* Series: Series available effective the date of this Capability Listing"  
Data\* Examples

AMM	SRM	IPC
24-Electrical Power	51-Structures	24-Electrical Power
28-Fuel	53-Fuselage	53-Fuselage
51-Structures	54-Nacelles/Pylons	54-Nacelles/Pylons
53-Fuselage	57-Wings	57-Wings
52-Structures: (Bell, Sikorski)	52-Structures (Bell, Sikorski)	28-Fuel
53-Fuselage		96-Electrical Power: (Bell, Sikorski)
54-Nacelles/Pylons		



## FFCS Capability List

Section Name: General Information	Page 1 of 1
Section Number: 2.0	Manual Number: FFCS-650-01-015
Revision Status: Rev.12	Date Revised: 3/07/2019

### 2.0 Record of Revisions/ LEP List of Effective Pages

REVISION NUMBER	REVISION DATE	AFFECTED SECTIONS/ LEP PAGE	REVISION DESCRIPTION
1	07/24/2000	All	Complete revision of format
2	10/01/2000	All	Name Change
3	01/12/2005	2.0-pg.1	Remove references to old IPM, Changed page format
3	01/12/2005	2.0-pg.1	Removed FAA Acceptance from all but this page
4	09/22/2005	3.0-pg.4	Corrected Lockheed L-100 to C-130 /382
5	01/30/2006	3.0-pg.2	Added EMB-190
6	11/01/2013	All	Edited to standard FFCS Manual format
7	01/22/2014	3.0- pg.1	Replaced Canadair with Bombardier
8	07/13/2015	3.0 -pg.4	Added Gulfstream Models
9	02/15/2016	3.0- pg.4	Added Aero commander under Gulfstream
10	04/05/2017	3.0-pg.1	Added Boeing- all models
11	05/08/2018	3.0-pg.1	Added Cessna Models
12	03/07/2019	3.0-pg.1	Added Boeing -377 Super Guppy

\* Records of subsequent revisions will be annotated above.

#### FAA FSDO Acceptance:

**DANIEL P  
MERRELL** Digitally signed by  
DANIEL P MERRELL  
Date: 2019.03.13  
14:57:28 -05'00'



## FFCS Capability List

Section Name: Capability List	Page 1 of 4
Section Number: 3.0	Manual Number: FFCS-650-01-015
Revision Status: Rev.12	Date Revised: 3/07/2019

### 3.0 Capability List

<i><b>Aircraft Manufacturer</b></i>	<i><b>Model</b></i>
<i>Aerospatiale</i>	ATR 42 ATR 72
<i>Airbus</i>	A300 A310 A318 A319 A320 A321 A330 A340
<i>Ayres</i>	Thrush Turbo Thrush
<i>Beech</i>	18 19 58 99 100,200,300,400 1900 2000
<i>Boeing</i>	377 707 717 720 727 737 747 757 767 777,787 Aux Systems
<i>British Aerospace</i>	BAC 1-11 BH HS Bae 146 Jetstream 31
<i>Bombardier</i>	CRJ Challenger
<i>Cessna</i>	500,550,S550, 552 560, 650 425, 441, 525 208 V,VI, VII, VIII, IX, X 510,525A,525B,525C 550 Bravo, 560XL,



## FFCS Capability List

Section Name: Record of Revision	Page 2 of 4
Section Number: 3.0	Manual Number: FFCS-650-01-015
Revision Status: Rev.12	Date Revised: 3/07/2019

	680,750
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### 3.0 Capability List cont..

<b>Aircraft Manufacturer</b>	<b>Model**</b>
Dassault	Jet Falcon Mystere Falcon
DeHavilland	DHC2 DHC7 DHC8
Dornier	228 328
McDonnell Douglas	DC-8 DC-9 DC-10 MD-10 MD-11 MD-80,88 Aux Systems
Embraer	EMB-110 EMB-120 EMB-145 EMB-170,175, 190
Fairchild	Metro I Metro II Metro III
Fokker	F20 F27 F28 F50/F60 F100
General Dynamics	Convair 880 Convair 264, 265 Convair 600, 990 Convair 580, 520 Convair 240, 340 Convair 440
Grumman	G-111 G-1



## FFCS Capability List

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Revision Status: Rev.12	Date Revised: 3/07/2019

<i>Gulfstream</i>	G-II G-III G-IV G-V G100 G150 G200 -G280 G450 G550 G650 G650ER Aero Commander
<i>Hansa Jet</i>	All Series**
<i>Israel Aircraft Industries</i>	Westwind Astra Commodore Jet
<b>Aircraft Manufacturer</b>	<b>Model</b>
<i>Jetstream Aircraft Ltd.</i>	200 3101 3201 4101
<i>Lake</i>	Widgeon Buccaneer LA-4 Renegade LA-250
<i>Lear</i>	23,24,25 28,29 31,35,36 55,60
<i>Lockheed</i>	L-1011 C130/382 Jetstar Loadstar
<i>Mooney</i>	M20, M22 230, 231
<i>PATS</i>	Aux Tank Systems
<i>Piper</i>	Cherokee
<i>Raytheon</i>	Beechjet A-3-Trainer 1900 Hawker 800 Hawker 1000 Hawker HS125 Hawker HS400 Hawker HS700 Hawker HS800



### FFCS Capability List

Section Name: Record of Revision		Page 4 of 4	
Section Number: 3.0		Manual Number: FFCS-650-01-015	
Revision Status: Rev.12		Date Revised: 3/07/2019	

	<i>Hawker HS1000</i>
<i>Rogerson</i>	<i>ATS Systems</i>
<i>Saab</i>	<i>340</i> <i>2000</i>
<i>Sabreliner</i>	<i>NA-265</i>
<i>Shorts</i>	<i>3-30/3-60</i>
<i>Sikorsky Helicopter</i>	<i>S-Series**</i> <i>H-37</i>
<i>Swearingen</i>	<i>Merlin</i>

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Part A

	HQ CONTROL DATE	EFFECTIVE DATE	AMENDMENT NUMBER
001 Issuance and Applicability	02/11/2016	03/07/2017	16
002 Definitions and Abbreviations	02/11/2016	02/18/2016	12
003 Ratings and Limitations	01/30/2004	03/07/2017	15
004 Summary of Special Authorizations and Limitations	09/23/1998	03/07/2017	22
007 Designated Persons	12/19/2006	03/07/2017	17
449 Antidrug and Alcohol Misuse Prevention Program	07/17/2009	02/17/2016	7

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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	05/01/2012	13



**A001 . Issuance and Applicability**

**HQ Control: 02/11/2016**

**HQ Revision: 05e**

a. These operations specifications are issued to FFC SERVICES, 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:  
4010 Pilot Drive  
Suite 103  
Memphis, Tennessee 38118

b. The holder of these operations specifications is the holder of certificate number N2RR559Y 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 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. These Operations Specifications are approved by direction of the Administrator.



Digitally signed by Shawn R Phelps, Principal Avionics Inspector (CE21)  
[1] EFFECTIVE DATE: 3/7/2017, [2] AMENDMENT #: 16  
DATE: 2017.03.07 14:32:42 -06:00

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

Digitally signed by Dale R Rosson, Manager-Quality  
DATE: 2017.03.07 14:11:17 -06:00

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**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.

<b>BASA</b>	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.
<b>Certificate Holder</b>	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.
<b>CFR</b>	Code of Federal Regulations
<b>Class rating</b>	As used with respect to the certification, ratings, privileges, and limitation of aircraft within a category having similar operating characteristics.
<b>EASA</b>	European Aviation Safety Agency
<b>EASA Accountable Manager</b>	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.
<b>EU</b>	European Union
<b>Exemption</b>	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.
<b>FOCA</b>	Federal Office of Civil Aviation
<b>FAA Accountable Manager</b>	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.
<b>Geographic</b>	An approval provided to a repair station located outside the United

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<b>Authorization</b>	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.
<b>Limited Rating</b>	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.
<b>Limited Ratings - Specialized Services</b>	Rating issued for a special maintenance function when the function is performed in accordance with a specification approved by the Administrator.
<b>Line Maintenance</b>	Any unscheduled maintenance resulting from unforeseen events, or scheduled checks where certain servicing and/or inspections do not require specialized training, equipment, or facilities.
<b>MAG</b>	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.
<b>Maintenance</b>	The inspection, overhaul, repair, preservation, and replacement of parts, but excludes preventive maintenance.
<b>U.S./EU Aviation Safety Agreement, Annex 2, Maintenance</b>	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.
<b>MIP</b>	Maintenance Implementation Procedures (MIP) are procedures for implementing the provisions of a BASA that apply to maintenance.
<b>MOE</b>	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).
<b>Preventive Maintenance</b>	As defined in 14 CFR part 1 and part 43 appendix A, subparagraph (c).
<b>QCM</b>	Quality Control Manual
<b>Repair Station located in the United States</b>	A certificated repair station located in the United States.

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**Repair Station located outside the United States** A 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 David D Hays, Principal Maintenance Inspector (CE21)  
[1] EFFECTIVE DATE: 2/18/2016, [2] AMENDMENT #: 12  
DATE: 2016.02.22 10:35:33 -06:00

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

Digitally signed by Nicholas A Dykes  
DATE: 2016.02.18 14:39:19 -06:00

**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**

**Rating Manufacturer**

Airframe From the accepted Capability  
List, as amended.

**Make/Model**

From the accepted Capability  
List, as amended.

**Limitations**

Maintenance, Preventative  
Maintenance and Alterations.

**Limited Ratings - Specialized Services**

**Rating**

Cleaning  
Processes

**Specifications**

FFCS PS 2011-1 (Revision 0) dated 07 September 2011,  
Cleaning Procedures - High Pressure Water Jet in Aircraft  
Integral Wing Fuel Tanks (Aqua-Miser Model E25)

**Limitations**

Repair limitations as contained in  
the referenced Civil or Military  
Specification.

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



Digitally signed by Shawn R Phelps, Principal Avionics Inspector (CE21)  
[1] EFFECTIVE DATE: 3/7/2017, [2] AMENDMENT #: 15  
DATE: 2017.03.07 14:32:42 -06:00

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

Digitally signed by Dale R Rosson, Manager-Quality  
DATE: 2017.03.07 14:14:25 -06:00

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**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
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
Use an approved electronic recordkeeping system, electronic/digital signature, and/or electronic media.	A025
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
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



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



Digitally signed by Shawn R Phelps, Principal Avionics Inspector (CE21)

[1] EFFECTIVE DATE: 3/7/2017, [2] AMENDMENT #: 22

DATE: 2017.03.07 14:32:43 -06:00

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

Digitally signed by Dale R Rosson, Manager-Quality

DATE: 2017.03.07 14:15:54 -06:00

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**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**

<b>Title</b>	<b>Name</b>	<b>Parts Authorized</b>
President	Tavoletti, Fred	A,D
Manager-Quality	Rosson, Dale	A,D
FAA Accountable Manager, 145	Rone, Brian	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**

<b>Name</b>	<b>Email Address</b>	<b>Telephone No.</b>	<b>Type of Information to Receive</b>
Tavoletti, Fred	ftavoletti@ffcfuelcells.com	9018427144	ALL
Rosson, Dale	drosson@ffcfuelcells.com	9018427139	ALL
Rone, Brian	brone@ffcfuelcells.com	9108427136	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 Shawn R Phelps, Principal Avionics Inspector (CE21)  
[1] EFFECTIVE DATE: 3/7/2017, [2] AMENDMENT #: 17  
DATE: 2017.03.07 14:32:43 -06:00

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

Digitally signed by Dale R Rosson, Manager-Quality  
[1] SUPPORT INFO: Change in Accountable Manager & QA Manager  
DATE: 2017.03.01 11:11:08 -06:00

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**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**

<b>Location &amp; Telephone of Antidrug and Alcohol Misuse Prevention Program Records:</b>	
<b>Telephone Number:</b>	(A2) CONN671B
<b>Address:</b>	4010 Pilot Drive
<b>Address:</b>	Suite 103
<b>City:</b>	Memphis
<b>State:</b>	TN
<b>Zip code:</b>	38118

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



Digitally signed by David D Hays, Principal Maintenance Inspector (CE21)  
[1] SUPPORT INFO: Updated address  
[2] EFFECTIVE DATE: 2/17/2016, [3] AMENDMENT #: 7  
DATE: 2016.02.17 10:01:35 -06:00

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

Digitally signed by Nicholas A Dykes  
DATE: 2016.02.17 09:59:48 -06:00

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**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**

<b>Work Authorized</b>	<b>Repair Stations Manual References</b>	<b>Quality Control Manual References</b>
All work for which the repair station is rated	Repair Station Manual, section 4-5 & 4-6, as revised.	Quality Control Manual, section 2.006, as revised.

- 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. Support information reference:
3. These Operations Specifications are approved by direction of the Administrator.



2012.05.01 15:18:56 Central Daylight Time  
Location: WebOPSS  
Digitally signed by Shawn Phelps, Principal  
Avionics Inspector (CE21)

4. Date Approval is effective: 05/01/2012                      Amendment Number: 13
5. I hereby accept and receive the Operations Specifications in this paragraph.

2012.05.01 14:50:21 Central Daylight Time  
Location: WebOPSS  
Digitally signed by Gerald A Bemis

Date: 05/01/2012

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