



# Operational Procedures Guidance

## References

CAR 405, 406, 605, 425, 426, SFFC MCM (Rev. 4, October 2022), Appendix to MCM, SFFC PPL Flight Training Outline, SFFC Flight Instructors Guide

## General

The objective of the SFFC FTU (Smiths Falls Flying Club, Flight Training Unit) Operational Procedures Guidance (OPG) is to promote safety through establishment and implementation of standard procedures in SFFC flight operations. It reflects directives contained in the referenced CARs and referenced SFFC documents.

The Chief Flight Instructor (CFI) is responsible for the management and exercise of operational control of the overall pilot training program, the supervision of all FTU instructors and direct supervision of Class 4 instructors. The CFI also ensures the qualification and currency of all flight instructors. He/she exercises these responsibilities in accordance with the referenced documents.

Compliance with this operational guidance document is **MANDATORY** for all pilots who fly SFFC aircraft. Prior to flying an SFFC aircraft as PIC, each pilot must have read and understood this OPG. A flight instructor will update the pilots training file for attestation of this requirement. **THIS IS TO BE COMPLETED ANNUALLY.**

## Booking Aircraft and Instructors

Aircraft and instructors shall be booked on the SFFC electronic booking system “FLIGHT SHEETS”. Booking of student solo flights must also include contacting a flight instructor for flight authorization, and to ensure that an Instructor is in attendance for the student solo flight.

Booking of cross-country flights to destinations more than **200 nm** from CYSH, flights to sparsely settled areas, flights to USA and flights intending to remain away overnight shall be made with sufficient lead time to receive required approval by the CFI/ACFI.

## Aircraft Dispatch

### Flight Authorization

All flights must be authorized by a SFFC Flight Instructor. Such authorization of a flight shall be indicated in “FLIGHT SHEETS” (FS), electronic based dispatch and time recording system (“Daily Flight Record” (DFR)). PIC shall ensure that Flight-Sheets and Journey Log indicate that the aircraft is serviceable and has sufficient time to next maintenance action by which to complete the planned flight. Current Air Time can be found on “Flight Sheets” (under aircraft status icon – booking page, right hand side of aircraft line listing). Pilots shall ensure that all defects are rectified or deferred on the “Defect Control Sheet” and in the Journey Log, and that any operating restrictions do not preclude safe, legal completion of the planned flight.

For cross country flights, an itinerary shall be filed with the authorizing Instructor. Deviations from the itinerary shall be reported to the authorizing Instructor or CFI as soon as practical.

### Completing the DFR

Once a “booking” of an aircraft, and Instructor where applicable, is completed (<https://www.flight-sheets.com/servlet/SFFC-FlightBookings>), the PIC can then log into the “Dispatch Page” of Flight Sheets

(<https://www.flight-sheets.com/servlet/SFFC-FlightSheets>)

where they will select the appropriate DFR. They can then “Activate” their respective flight. The PIC shall complete the DFR ensuring that:

- Appropriate aircraft is selected.
- Appropriate PIC is indicated.
- Passenger(s) are listed when applicable.
- The appropriate program is selected.
- Exercise(s) to be carried out shall be identified where applicable.
- If the flight is “cross country” with stop overs, these shall also be noted on the DFR (Legs).
- A “Returning Time” is to be entered (Depending on the number and duration of “legs” this time may encompass a future date).

#### NOTE

In the case of a “dual training” flight, the student may be tasked with the above, supervised by the Instructor.

Once the PIC or student enters their password by which to complete the “activation” of the flight, and clicks “Okay”, the system reverts to the basic DFR page of the day and sends a message to persons authorized to “Authorize” a flight.

Upon return of the aircraft the PIC or student shall log into the “Dispatch Page” of Flight Sheets again. They shall then locate their flight line of the appropriately dated DFR and click on “Enter Hobbs and Air Time” and make the appropriate entries.

**NOTE**

**Flight Time:** is chronological time from engine start up to engine shutdown and shall be equal to HOBBS Time (“Flight Time” shall be recorded as the incremental Hobbs time, the difference in HOBBS meter reading from the start of the engine to the shut down of the engine).

**Air Time:** is the difference between “Wheels up” and “Wheels down” and can be approximated from the “Tachometer” time (difference of end of previous flight and end of current flight), should the PIC not have made record of such specific time.

Once the times are entered, person entering the data ensuring their name is displayed at the bottom of the page as the person entering such, then the person’s password is entered and click “Okay”. The system will return to the DFR of the day. The person who will be paying for the flight then clicks “Close Flight” at the right-hand side of the DFR of the day. One simply follows the prompts through to payment conclusion.

**NOTE**

The person completing the data entry shall ensure that “Dry Rate” is checked if appropriate as well as ensuring that the appropriate box “Dual”, “Solo” etc. are checked.

## Wet Rental Rate Policy

When it will not be necessary to fuel the aircraft away from CYSH, the rental will be at the Wet Rate.

- The Wet Rate shall be used for the whole flight.
- Prior to departure from CYSH, the aircraft shall be filled with fuel (or to a specified level as dictated by weight and balance requirements), and paid for using the SFFC aircraft fuel card.
- If refueling is required, the aircraft shall be refilled immediately upon return to CYSH and shall be paid for using the SFFC aircraft fuel card.
- **Aircraft must be refueled if less than 20 USG of fuel is remaining at the completion of the flight.**

## Dry Rental Rate Policy

When it becomes necessary to fuel the aircraft away from CYSH, the rental will be at the Dry Rate.

- Prior to departure from CYSH, the aircraft shall be filled with fuel (or to a specified level as dictated by weight and balance requirements), and paid for using the SFFC aircraft fuel card.
- Fuel purchased away from CYSH shall be paid for by the rental pilot using a personal credit card.
- The aircraft shall be refilled immediately upon return to CYSH to the same fuel state as CYSH departure, and shall be paid for by the rental pilot using a personal credit card.
- A copy of the CYSH refill fuel receipt shall be attached to the sales receipt for the rental flight.

## Documents

The PIC shall ensure the following documents are onboard the aircraft:

Journey Log if flight is to be more than 25nm from CYSH

Certificate of Airworthiness (CofA)

Certificate of Registration (CofR)

Proof of Aircraft Insurance

Pilot Operating Handbook (POH)

Applicable Flight Manual Supplements (aircraft specific)

Weight and Balance report (most current)

Hobbs/Tach recording Sheet

Nav Canada Flight Information publications

Maps and charts as required

## Weight and Balance

PIC shall complete an operational weight and balance for each flight. This is normally done by filling out the weight and balance form on the FS DFR when activating the flight.

## Survival Equipment

It is the responsibility of the PIC to ensure that everyone on the aircraft wears or brings along clothing appropriate to the season. In winter, each passenger shall have available a coat, hat, boots, gloves, etc. to ensure survival overnight in the bush.

A "Smiths Falls Flying Club" (SFFC) Survival Kit shall be carried on all flights flying more than 25nm from CYSH.

## Night Flights

Additional mandatory equipment for night flights shall include one or more hand lights and a portable VHF radio capable of actuating the ARCAL runway lights.

### NOTE

Night approaches must be made on or above the APAPI slope. If at any time below 300' AGL the aircraft goes below the APAPI slope (red on red), a go-around should be conducted due to the obstacles (trees) on final approach.

## Aircraft Defects

Aircraft defects detected by pilots at CYSH or when on cross country shall be reported to the authorizing Instructor or CFI who will confer with the Person Responsible for Maintenance (PRM) for disposition. Defects shall be recorded in the Journey Log (including a description, date, signature, and license number) and on the PILOT side of the Defect Record Sheet located at the front of the Journey Log.

## Additional Operational Information

Information relevant to operational safety not included in this document shall be posted on the information whiteboard and brought to the attention of pilots by the authorizing Flight Instructor. Such information may also be posted in Flight-Sheets.

## Payment for flight

Payment for flight is completed as follows:

- PIC shall complete the electronic invoice and payment for each flight through FS DFR page (electronic)
- Complete a credit card or debit card payment on the "Point of Sale" (POS) terminal.
- Record on the backside of the "Merchant's copy" of POS tape, the Flight Number and Receipt/Invoice number displayed on the FS DFR payment screen and the pilots name.
- This POS tape will be placed on the "needle" in the receipt box on the "dispatch desk" in the "Flight Training Unit" (FTU) office.
- As outlined above, PIC is to enter the following in the appropriate box on the DFL:
  - Method of payment
  - Amount
  - "Batch Number" (from the POS tape)
  - Receipt number (from the FS DFR payment screen).

## Aircraft Verification

### Walk Around

A detailed walk around of the aircraft is required to be performed by the PIC prior to every flight in accordance with the "Pilot Operating Handbook" (POH).

#### NOTE

Overall, the PIC should follow the POH information pertaining to checking for general condition of aircraft prior to flight, to reasonably ascertain that the aircraft is airworthy. The POH provides an especially useful methodical approach for such.

## Aircraft Servicing

### Fuel Requirements

SFFC aircraft will use 100LL aviation fuel only.

Fuel levels are to be checked by dipping fuel tanks with appropriately marked dip sticks (ensure the dip stick is marked or identified for the aircraft). Aircraft shall not take off with less than the fuel required for the flight, plus sufficient fuel for an additional one hour of flying time.

#### NOTE

Aircraft fuel gauges shall never be used to determine fuel levels.

**Aircraft must be refueled if less than 20 USG of fuel is remaining at the completion of the flight.**

### Fueling Aircraft

- Ground aircraft with grounding wire.
- Process payment using the terminal in the fuel hut.
- Turn on the fuel pump and unreel hose.
- Fill aircraft to desired fuel level. Take care not to touch the ladder or the hose to the side of the aircraft or windscreen during fueling. Fuel nozzle must ground (touch) the filler cap during refueling.
- Return hose and grounding wire to the cabinet, shut off fuel pump.

#### NOTE

Emergency fuel shutoffs are located in the fuel hut and on the northwest corner of the Clubhouse.

Aircraft must be grounded at two points (grounding wire and by touching the fuel nozzle to the filler neck) at all times during fueling.

When rewinding the hose, care must be taken not to drag the fuel nozzle across the ground. It is encouraged to wind the last 1m of hose by hand to ensure the nozzle does not get stuck in the rear of the hose cabinet.

### Oil Requirements

Oil grades approved for use are listed in the front of the aircraft journey log.

#### NOTE

Oil grades are subject to change seasonally as well as during engine break-in periods.

The current oil grade in use is specified in the journey log, listed in “Flight Sheets” (under aircraft status icon – booking page, right hand side of aircraft line listing), and on the information whiteboard located in the dispatch office.

Oil level shall be maintained between 5 to 6 quarts. Care needs to be taken so as not to overfill. Oil used shall be recorded on the Flight-Sheets DFR by entering the amount of oil added upon closing the flight line.

## Recency Requirements

### Students

- Before Initial solo, quizzes completed (OPG and POH) and instructor will train student on Flight- Sheets operational control, fueling, and hangar operation, winter operations, and cross-country requirements.
- After initial solo, 30 days from last flight.
- Over 30 days, a dual flight and solo recommend is required.

### Renters

#### Initial qualification

- Quizzes completed (OPG and POH).
- Full checkout including airwork (steep turns, slow flight, stalls, forced landing), minimum 3 circuits, an overshoot, and emergency procedures.
- An instructor will train renter on Flight-Sheets operational control, fueling, and hangar operation, winter operations, and cross-country requirements.

#### Renter currency requirements

- After 60 days (extendable to 90 days by CFI based on experience, other flying, and time on type) up to 6 months since last flight: Circuit check including minimum 3 circuits and an overshoot.
- After 6 months up to 1 year since last flight: Full checkout including airwork (steep turns, slow flight, stalls, forced landing), minimum 3 circuits, an overshoot, and emergency procedures.
- Over 1 year since last flight: Quizzes completed (OPG and POH), and full checkout including airwork (steep turns, slow flight, stalls, forced landing), minimum 3 circuits, an overshoot, and emergency procedures.

## Weather Minima

### Dual

<b>Local, VFR, Day</b>	Class E Airspace 1000' 3sm
<b>Local, VFR, Night</b>	1500' 5sm
<b>Cross-Country, VFR</b>	2000' 3sm, forecast for flight +2 hrs
<b>IFR Training</b>	1000' 3sm departure & destination
<b>Winds</b>	Actual and forecast not above 25 kts

## Solo

Circuits	1500' 3sm
Local, Practice Area	4000' 10sm
Cross-Country	Route + 2 hrs, 4000' 10sm (+two hrs daylight)
Winds	max 20 knots, max x-wind 10 kts

While the foregoing is for flight training operations, licensed pilots renting SFFC aircraft and flight instructors authorizing such flights should consider these limits as prudent.

## Cold Weather Operation

### Engine Pre-Heat

All SFFC Aircraft are equipped with engine heaters. Use of these heaters is mandatory when temperature is 0 C or colder.

When authorized for a cross country, the PIC should ensure that both an extension cord and cowl cover are carried, and the heater used. Otherwise, the PIC must ensure that the engine is pre-heated by some other means.

When temperatures are consistently below freezing, SFFC aircraft will be “plugged-in” continuously to avoid temperature cycling the engine which may introduce moisture into the crankcase.

### Engine Start

SFFC aircraft engines shall not be started in temperatures colder than minus 25 C.

### Flight Training

The minimum temperature for dual or solo flying is minus 20 C. Practice forced approaches shall not be conducted in temperatures below 0 C unless a reduced power simulation of 1500 RPM and ½ flap is used.

## SFFC Practice Areas

Two designated practice areas are bounded as follows:

### Training Area #1 (South)

44 51 N 76 00 W to (West of 29, south of Smiths Falls)

44 58 N 75.40 W to (Oxford Mills)

44 50.7 N 75 32.5W to (Spencerville)

44 39.6N 75 53 W to (Addison)

44 40 N 76 00W (just west of Addison) to origin

### Training Area #2 (West)

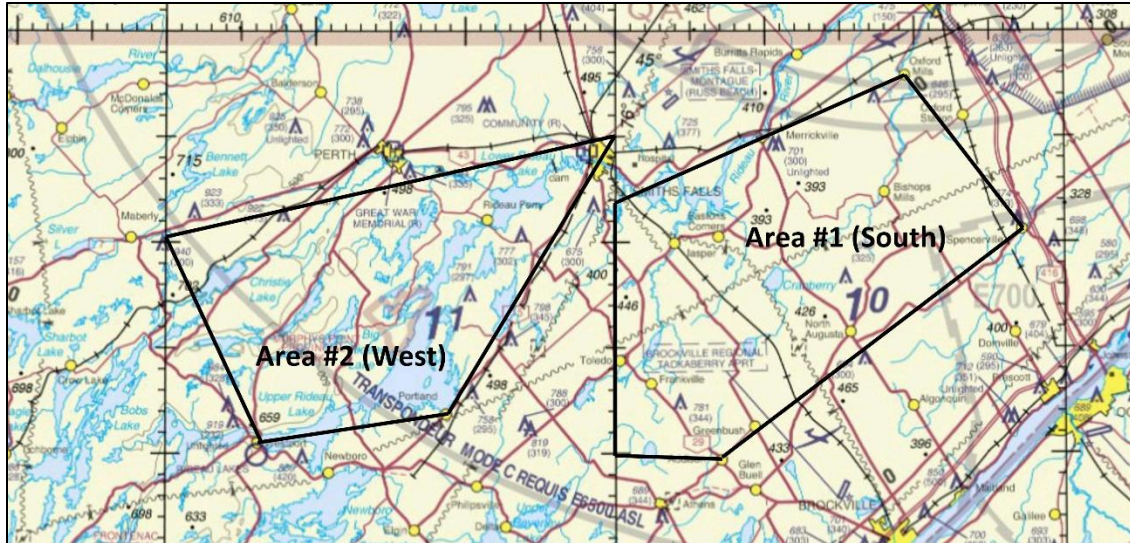
44 54N 76 00 W to (Smiths Falls)

44 41.7N 76 11.3 W to (Portland)

44 40.5N 76 24W to (Westport)

44 50N 76 30 W (just east of Maberly) to origin





## Over Water Flights

No dual or solo flights are to be planned over water except on routes and altitudes that will permit a safe glide to land in the event of an aircraft malfunction.

## IFR Flights in IMC Conditions

The instrument approaches at Smiths Falls (CYSH – RNAV 24 and RNAV 06) are published in the RCAP (Restricted Canada Air Pilot) because they do not meet the standard instrument approach criteria for obstacles required by Transport Canada. Training on these approaches is **mandatory** for pilots flying the approaches in IMC (ceiling below 1,000' or visibility less than 3SM). Training will be done by flight instructor and assessed by a quiz.

## Accidents and Incidents

Accidents or incidents shall be reported **immediately** to the CFI or the authorizing flight Instructor.

Should an accident occur it is important to protect the site from disturbance, except for action to preserve and protect life, until the accident investigation is complete.

## Use of Checklists

SFFC aircraft are provided with checklists covering normal operations and emergencies. These checklists shall be used in conjunction with the POH and applicable Flight Manual Supplements when operating SFFC aircraft. PIC shall ensure the appropriate checklist for the aircraft is readily available on board the aircraft.

## Updating the Journey Log

Aircraft journey logs are to be updated following a series of flights or at the end of each day. This is normally completed by the CFI or delegate.

## Cross-Country Flights

### NOTE

The Journey Log must be carried onboard the aircraft for all flights more than 25nm from CYSH.



For multi-day rentals away from CYSH the pilot is responsible to update the Journey Log after each leg, or at the end of each day.

An email or similar correspondence is to be made to the “authorizing instructor”, providing “Engine Start”, “Engine Stop”, “Time Up”, “Time Down” along with Tach and Hobbs meter readings at the end of the day for each leg flown that day. This latter reporting may be omitted if the PIC enters such data in FS (DFR) at the end of each day (this would be dependent on the PIC having internet capability).

## Hangar Operations

Care must be taken when moving aircraft into and out of the hangar to avoid damage. Painted lines on the hangar floor denote the parking spaces for the three SFFC aircraft. Aircraft should not be parked in close proximity to the man door such that the door is able to contact the wing when opened.

### NOTE

Unless the next pilot to fly the aircraft is readily available, all aircraft must be returned to the hangar after flight. When parked in the hangar aircraft must have the control lock, pitot cover, engine plugs (summer), and cowl cover (winter) installed. Props should be rotated to horizontal.

### Opening the Hangar Door

- Ensure that there are no aircraft parked near the door that may make contact during opening (both on the apron and inside the hangar).
- Open the upper hydraulic valve.
- Open the lower hydraulic valve.
- Ensure the latches on BOTH sides of the door are retracted.
- Press and hold the “Up” button until the hangar door is open to 10’ (marked by a black line).

### NOTE

Failure to retract the latches before opening can cause damage to the hangar door.

### NOTE

The hangar door must **NEVER** be left partially open.

### Closing the Hangar Door

- Ensure all aircraft are parked behind the yellow line marked on the hangar floor. If any part of the aircraft is forward of this line it will contact the door.
- Press and hold the “down” button until the hangar door is completely closed and the motor shuts off.
- Close the upper hydraulic valve.
- Pressurize the system by pumping the handle until both latches are secure against the posts. Be careful to not over pressurize the system.
- Close the lower hydraulic valve.