



Declared Training Organisation (DTO)

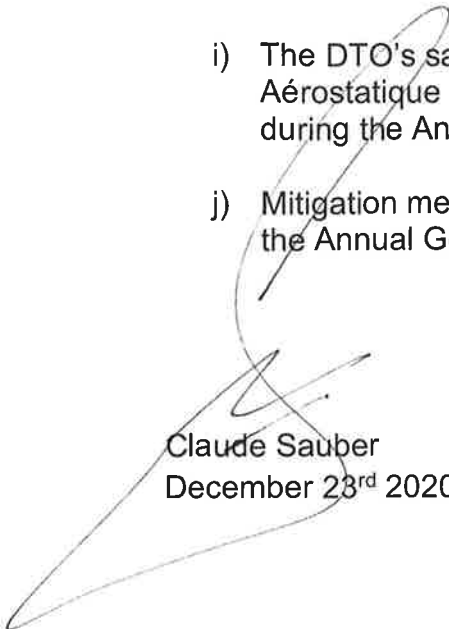
Commune Aérostatique du Grand-Duché de Luxembourg

Annual internal review - 2020

With regard to the internal review we have the pleasure to establish the following assessment:

- a) The resources to carry out the tasks and responsibilities are limited but sufficient regarding the number of candidates to be trained.
2020 was a special year due to the Covid-19 restrictions imposed by the government as well as the aim to get additional examiners and senior examiners to get more flexibility and keep that expertise in Luxembourg.
For more global training initiatives as for example the safety seminar, the DTO can rely on qualified third-party organizations.
- b) Training is conducted according to the initial DTO specifications from March 4th. 2019. Instructors have been added to be able to extend the training scope (see our 2020 activity report).
- c) In 2021 we will extend the training scope to FI(B) certificates, to be able to also increase the number of FI(B)s, as well as to BPL training on gas balloons according to ANC 2 BFCL 130.
- d) Training records are centralized on the GOBOKO aviation management platform which allows random online checks.
- e) Training programs are adequate and current.
- f) Training aircrafts, their documents and maintenance records are up to date on the GOBOKO platform. Gas balloon G-CGOZ - Cameron Balloons Ltd. – GB-1000 will become LX-BOZ.
- g) The preferred take off site has been confirmed by the mayor of Larochette. The extension to a gas balloon take-off site is underway. All training rooms are available.

- h) Some copies of current documents were missing on the platform. Follow-up has been initiated and is ongoing. No other non-compliances have been detected.
- i) The DTO's safety policy has been integrated into the Commune Aérostatique internal regulations. Means and methods will be stressed during the Annual General Meeting and the Safety Seminar in 2021.
- j) Mitigation measures of the safety policy will also be discussed during the Annual General Meeting and the Safety Seminar in 2021.



Claude Sauber
December 23rd 2020



Declared Training Organisation (DTO)

Commune Aérostatique du Grand-Duché de Luxembourg

Annual activity report - 2020

With regard to the activity report we have the pleasure to list the following activities of our organization in 2020 :

- We performed a series of mountain training flights with HEISER Paul in Château d'Oex (CH) in January 2020.
- We performed a FI(B) proficiency check with KRAFT Claude on May 18th 2020 with PUT HEMMERLING Gilles.
- We performed F(B) training flights with HERMES Claude, KREMER Marc, GILLES Guy, PAX Romain and FEDERMEYER Paul.
- Head of training and instructor SAUBER Claude performed an FE(B) and FIE(B) proficiency check with WILBERT Klaus on June 26th 2020.
- That flight was also an observation flight for BETZEN Nico for his FIE(B) qualification.
- Head of training and instructor SAUBER Claude performed a senior examiner assessment with LECUIT Carlo on October 18th 2020.
- That flight was also an examiner final assessment for BETZEN Nico, as well as a partially successful BPL Skill Test with LALLEMAND Carine.
- Head of training and instructor SAUBER Claude attended the FFA (Fédération française d'aérostation) Instructor refresher course on November 26th 2010. The course was organized by DTO FR.DTO.0467, a certificate is attached.
- The annual balloon maintenance session had to be cancelled due to the Covid-19 restrictions imposed by the government. Individual

- maintenance sessions were held to check and prepare all material before sending it to CAMO Schroeder Fire Balloons DE.MG.0549 for the annual airworthiness review.
- During the year LX-BOT O-105 was sold to the Czech Republic and replaced by LX-BOT O-77. Camo contract was modified accordingly.
- We organized a hot air balloon Safety Seminar on February 29th 2020 with the following program:
 - Introduction by Grégory Delbeke (DAC)
 - Safety and Reporting requirements by Jean-Claude Petesch (DAC)
 - Balloon Regulation by Mirjam Huizer and Grégory Delbeke (DAC)
 - *Laufzeitbegrenzte Teile, Gasbehälter, Rückhaltesystem, Fesselstart* by Werner Wäschenbach (CAMO Schroeder Fire Balloons). 22 pilots attended the seminar.
- Student pilots Carole Fleres and Gilles Hemmerling are still preparing their theoretical skill test for the BPL license and performed training flights in 2020.
- No accidents or incidents have occurred during the training courses and flights.

- **List of operating sites of the DTO**

Different take off sites chosen according to Flight Manual recommendations with a preferred site located at L-7612 Larochette, montée du Château.

Preferred knowledge training rooms are at the Commune Aérostatique headquarters in L-7619 Larochette, rue de Medernach or in L-2313 Luxembourg, 14, place du Parc equipped with classroom facilities, multimedia presentation equipment.

- **List of aerostats of the DTO**

LX-BVE	Cameron Balloons Ltd.	Z-90
LX-BOT	Cameron Balloons Ltd.	O-105 and O-77
LX-BLF	Cameron Balloons Ltd.	Z-105
LX-BIL	Cameron Balloons Ltd.	Z-105
LX-BKU	Cameron Balloons Ltd.	Z-120
LX-BPC	Cameron Balloons Ltd.	TR-70


G-CGOZ Cameron Balloons Ltd. GB-1000 will become LX-BOZ

- **Personnel requirements – DTO Instructors**

SAUBER Claude
KRAFT Claude
BETZEN Nico
ARENDR Carlo
MOINE Hervé
TRIPPLER Werner
WILBERT Klaus
EIMERS Benni
EIMERS Wilhelm

- **Outlook 2020**

- Facilitate proficiency checks for commercial privileges with German examiner TRIPPLER Werner or WILBERT Klaus.
- Organize a Safety Seminar
- Training scope will be extended in 2021 to **FI(B) certificates** and **BPL training on gas balloons** according to AMC 2 BFCL 130
- Plan a FI proficiency check for FIE(B) Claude Sauber



Claude Sauber
December 23rd 2020

DTO TRAINING RECORD - 2020

Training flight number: 1/2020 Balloon size & type: Cameron Balloons Z-120
Student's name: HEISER Paul Balloon registration: LX-BKU
Surface wind: 6 kts 2000ft wind: 10 kts at 8 000 ft
Take-off time: 10:50 Landing time: 11:55
Instruction time: 65' Total 2020: 65'

Resumé of student's participation:

Valley flying and minimum distance training. Take off in Château d'Oëx, landing in Château d'Oex.

Instructor's name & signature: SAUBER Claude Date: 25.01.2020

Training flight number: 02/2020 Balloon size & type: Cameron Balloons Z-120
Student's name: HEISER Paul Balloon registration: LX-BKU
Surface wind: 5 kts 2000ft wind: 6 kts at 5 000 ft
Take-off time: 10:40 Landing time: 12:40
Instruction time: 120' Total 2020: 3:05'

Resumé of students participation:

Valley flight to Montbovon with ventury effects, light wind shears and rotor turbulences.

Instructor's name & signature: SAUBER Claude Date: 26.01.2020

DTO TRAINING RECORD - 2020

Training flight number: 3/2020 Balloon size & type: Fire Balloons G 26/24
Student's name: KRAFT Claude Balloon registration: LX-BEA
Surface wind: 8 kts 2000ft wind: 12 kts at 2 500 ft
Take-off time: 20:15 Landing time: 21:00
Instruction time: 45' Total 2020: 3:50'

Resumé of student's participation:
FI proficiency check with instructor Claude Kraft.

Instructor's name & signature: SAUBER Claude Date: 18.05.2020

Training flight number: 04/2020 Balloon size & type: Fire Balloons G 26/24
Student's name: HEMMERLING Gilles Balloon registration: LX-BEA
Surface wind: 8 kts 2000ft wind: 12 kts at 2 500 ft
Take-off time: 20:15 Landing time: 21:00
Instruction time: 45' Total 2020: 4:35'

Resumé of students participation:
Gilles Hemmerling's training flight nb. 6 with instructor Claude Kraft.
For details, see student pilot's log book.

Instructor's name & signature: SAUBER Claude Date: 18.05.2020

DTO TRAINING RECORD - 2020

Training flight number: 5/2020 Balloon size & type: Fire Balloons G 26/24
Student's name: HERMES Claude Balloon registration: LX-BEA
Surface wind: 2 kts 2000ft wind: 6 kts at 2 500 ft
Take-off time: 19:20 Landing time: 20:12
Instruction time: 52' Total 2020: 5:27'

Resumé of student's participation:
Training/check flight according to skill test programm.

Instructor's name & signature: SAUBER Claude Date: 02.06.2020

Training flight number: 06/2020 Balloon size & type: Fire Balloons G 26/24
Student's name: KREMER Marc Balloon registration: LX-BEA
Surface wind: 4 kts 2000ft wind: 8 kts at 3 500 ft
Take-off time: 20:12 Landing time: 21:05
Instruction time: 53' Total 2020: 6:10'

Resumé of students participation:
Training/check flight according to skill test programm.

Instructor's name & signature: SAUBER Claude Date: 02.06.2020

DTO TRAINING RECORD - 2020

Training flight number: 7/2020 Balloon size & type: Cameron Balloons Z-120
Student's name: SAUBER Claude Balloon registration: LX-BKU
Surface wind: 2 kts 2000ft wind: 14 kts at 3 500 ft
Take-off time: 06:35 Landing time: 07:40
Instruction time: 65' Total 2020: 7:15'

Resumé of student's participation:

Com Ops proficiency check as well as FE & FIE proficiency check.

Instructor's name & signature: WILBERT Klaus Date: 26.06.2020

Training flight number: 8/2020 Balloon size & type: Z-120
Student's name: BETZEN Nico Balloon registration: LX-BKU
Surface wind: 2 kts 2000ft wind: 14 kts at 3 500 ft
Take-off time: 06:35 Landing time: 07:40
Instruction time: 65' Total 2020: 8:20'

Resumé of students participation:

Observation flight for Nico BETZEN's Proficiency check session as observer

Instructor's name & signature: SAUBER Claude Date: 26.06.2020

DTO TRAINING RECORD - 2020

Training flight number: 9/2020 Balloon size & type: Cameron Balloons Z-90
Student's name: GILLES Guy Balloon registration: LX-BVE
Surface wind: 8 kts 2000ft wind: 12 kts at 2 500 ft
Take-off time: 20:30 Landing time: 21:25
Instruction time: 55' Total 2020: 9:15'

Resumé of student's participation:

Changing wind directions well handled, good choice for take-off site, watch farmer relations, check correct

W&B sheet in logbook, keep crew at a reasonable size, check different TMA upper limits, check altimeter calibration,

excellent considering of possible rotors, give frequent indications to crew in high wind conditions,

re-brief pax right before high speed landings, fire simulation and pilot light failure perfectly handled so as

121.500 emergency test with injured passenger. all other items also fine

Instructor's name & signature: SAUBER Claude Date: 12.07.2020

Training flight number: 10/2020 Balloon size & type: Z-90
Student's name: FLERES Carole Balloon registration: LX-BVE
Surface wind: _____ 2000ft wind: _____
Take-off time: 20:15 Landing time: 21:05
Instruction time: 50' Total 2020: 10:05'

Resumé of students participation:

Instructor's name & signature: SAUBER Claude Date: 31.07.2020

DTO TRAINING RECORD - 2020

Training flight number: 11/2020 Balloon size & type: Cameron Balloons Z-90
Student's name: FLERES Carole Balloon registration: LX-BVE
Surface wind: _____ 2000ft wind: _____
Take-off time: 20:12 Landing time: 21:05
Instruction time: 53' Total 2020: 10:58'

Resumé of student's participation:
see student's log book

Instructor's name & signature: SAUBER Claude Date: 05.08.2020

Training flight number: 12/2020 Balloon size & type: Z-90
Student's name: FLERES Carole Balloon registration: LX-BVE
Surface wind: 40° 4 kts 2000ft wind: 3500 ft 360° 8 kts
Take-off time: 18:55 Landing time: 19:50
Instruction time: 55' Total 2020: 11:53'

Resumé of students participation:
Level flight at 3500 ft - 3200-3500 ft +/- OK
Cold descent from 3500 ft -> surface and level off - OK
5 approaches (2 fine, 2 messed up do to close terrain focus, final landing was fine)
Low consumption so no need for cylinder chg.)
Need to get more aware, more reactive and instructive - take the P1 role

Instructor's name & signature: SAUBER Claude Date: 06.09.2020

DTO TRAINING RECORD - 2020

Training flight number: 13/2020 Balloon size & type: Cameron Balloons Z-90
Student's name: PAX Romain Balloon registration: LX-BVE
Surface wind: 6-8 kts 280° 2000ft wind: 10 kts 280°
Take-off time: 18:30 Landing time: 19:25
Instruction time: 55' Total 2020: 12:48'

Resumé of student's participation:
Reco para line in hand when inflating in high winds.

Instructor's name & signature: SAUBER Claude Date: 08.09.2020

Training flight number: 14/2020 Balloon size & type: Cameron Balloons Z-90
Student's name: FEDERMEYER Paul Balloon registration: LX-BVE
Surface wind: 6-8 kts 280° 2000ft wind: 10 kts 280°
Take-off time: 19:25 Landing time: 20:15
Instruction time: 50' Total 2020: 13:38'

Resumé of students participation:
Avoid high vertical and horizontal speed landings

Instructor's name & signature: SAUBER Claude Date: 08.09.2020

DTO TRAINING RECORD - 2020

Training flight number: 15/2020 Balloon size & type: Cameron Balloons Z-90
Student's name: FLERES Carole Balloon registration: LX-BVE
Surface wind: 6 kts 50-60° 2000ft wind: 8 kts 70-90°
Take-off time: 18:10 Landing time: 19:10
Instruction time: 60' Total 2020: 14:38'

Resumé of student's participation:

Good inflation procedure in light gusty conditions.
Some problems putting up basket and stepping into the basket during inflation.
Good level flight at 2000' +/- 50 ft.
Good approach, watch reaction time while flying at low altitude. React faster!
Good choice of final landing spot and good final landing with 10 meter drag.

Instructor's name & signature: SAUBER Claude Date: 20.09.2020

Training flight number: 16/2020 Balloon size & type: Schroeder Fire Balloons
Student's name: SAUBER Claude Balloon registration: LX-BPL
Surface wind: 6-8 kts 280° 2000ft wind: 8 kts 320°
Take-off time: 16:40 Landing time: 17:40
Instruction time: 60' Total 2020: 15:38'

Resumé of students participation:

Senior Examiner Assessment
see remarks on test form

Instructor's name & signature: LECUIT Carlo Date: 18.10.20

DTO TRAINING RECORD - 2020

Training flight number: 17/2020 Balloon size & type: Schroeder Fire Balloons
Student's name: BETZEN Nico Balloon registration: LX-BPL
Surface wind: 6-8 kts 280° 2000ft wind: 8 kts 320°
Take-off time: 16:40 Landing time: 17:40
Instruction time: 60' Total 2020: 16:38'

Resumé of student's participation:

FE initial assessment

see form

Instructor's name & signature: SAUBER Claude Date: 18.10.2020

Training flight number: 18/2020 Balloon size & type: Schroeder Fire Balloons
Student's name: LALLEMAND Carine Balloon registration: LX-BPL
Surface wind: 6-8 kts 280° 2000ft wind: 8 kts 320°
Take-off time: 16:40 Landing time: 17:40
Instruction time: 60' Total 2020: 17:38'

Resumé of students participation:

F(B) skill test

see remarks on test form

Instructor's name & signature: SAUBER Claude & BETZEN Nico Date: 18.10.20

ATTESTATION

Je soussigné **René SCHMITZ**
Responsable pédagogique
- de la Commission Formation de la Fédération Française d'Aérostation,
- du FR.DTO 0467

atteste que : **M. Claude SAUBER**
Pilote-Instructeur « ballon »

Licence nationale
Licence européenne **LU.FCL.11357**

demeurant à : **13, RUE DE BETZDORF**
L-6951 OLINGEN
Luxembourg

a participé au stage de recyclage d'Instructeur dénommé RSFI

Date : 26 novembre 2020

Lieu : Paris et visioconférence

organisé par le DTO FFAé / CNPPA immatriculé FR.DTO 0467

Fait le 26 novembre 2020
à PARIS
pour valoir ce que de droit.

René Schmitz
S-FIE-FRA.BFCL.PB00160167



Note : le programme du stage de recyclage FI(B) [RSFI BFCL FFAé - CNPPA Ed01 20200408]
répond aux exigences des Règlements (UE)1178/2011, 2018/395 ; Part-FI ; BFCL.360 ; AMC1
BFCL.360(a)(1)(i)