

BL 5-3

Regulations on civil air shows

Edition 4, 31 January 1990

In pursuance of subsection 3 of § 75, subsection 3 of § 130, subsection 10 of § 149 and § 151 of the Air Navigation Act, cf. Consolidation Act no. 408 of 11 September 1985, the Civil Aviation Administration - Denmark hereby stipulates as follows on the authority of the Ministry of Transport, including in Order no. 161 of 20 April 1971 regarding use of parachutes, and Order no. 446 of 1 October 1972 on the use of gliders, model aircraft etc.:

1. Reference documents

1.1 BL 3-32, Radio communication installations on the ground, latest edition.

1.2 BL 7-11, Supplement A to BL 7-1, Signals, latest edition.

1.3 BL 9-1, Use of parachutes, latest edition.

1.4 BL 9-4, Flights with unmanned aircraft not weighing more than 20 kg, latest edition.

1.5 BL 9-5, Flights with hang-gliders, latest edition.

1.6 BL 9-6, Ultralight aircraft, latest edition.

1.7 The Ministry of Public Works' Order no. 491 of 23 September 1984 on minimum limits for third party liability insurance for aircraft in pursuance of subsection 1 of § 130 of the Air Navigation Act.

2. Definitions

"Crazy" flights:

Advanced manoeuvres with an aircraft performed during take-off and landing and at low altitude without the manoeuvres being in the nature of aerobatics.

Air show:

Any arrangement to which the general public is offered access and where the manoeuvrability of the aircraft is demonstrated in the air and/or where parachute jumps are performed.

Air show, civil:

An air show not arranged by military authorities.

Aerodrome, public:

An aerodrome approved by the Civil Aviation Administration - Denmark which on specified conditions is open to the general public.

Aerobics:

Manoeuvres performed by an aircraft to obtain a steep change of the flying position, an abnormal flying position or an abnormal change of speed.

3. Applicability

This BL lays down regulations for holding civil air shows, hereinafter referred to as air shows, within Danish territory.

4. Permission and third party liability insurance

4.1 Air shows may only be held after prior permission obtained from the Civil Aviation Administration - Denmark.

4.1.1 An air show comprising only one of the following activities

- "crazy" flights,
- flights with ultralight aircraft,
- flight with hang-gliders,
- balloon ascent,
- parachute jumps and
- flights with model aircraft,

may, however, be held without prior permission from the Civil Aviation Administration - Denmark when the regulations laid down in this BL in paragraph 4.2 and in Part 11 - Part 16 are complied with. For "crazy" flights and flights with ultralight aircraft the regulations in paragraphs 7.3, 7.3.1 and 7.4 shall, however, also apply.

4.1.2 An air show only including engine flights and/or hang-gliding and which is performed in accordance with the rules of the air may also be held without prior permission obtained from the Civil Aviation Administration - Denmark, but must be performed in accordance with the regulations in paragraphs 7.3, 7.3.1 and 7.4.

4.2 Exercise of the activities mentioned in Parts 10 to 14 and Part 16 shall be covered by a liability insurance in accordance with subsection 1 of § 130 of the Air Navigation Act, cf. the Ministry of Public Works' order no. 491 of 23 September 1984. The same shall apply to parachute jumping, cf. Part 15, where the amount of the insurance sums shall be at least Dkr. 50,000,000 covering personal injury and Dkr. 1,500,000 covering damage to property. Insurance in pursuance of the above-mentioned shall explicitly cover claims for damages to third party as a result of air shows.

4.3 The Civil Aviation Administration - Denmark shall have received written application for permission to hold air shows in pursuance of paragraph 4.1 not later than 2 weeks before the air show is held, and the application

shall be signed by the organiser and the air show manager, cf. Part 5.

4.3.1 The application shall contain the following information:

- a. Name and address of the organiser.
- b. Name and address and telephone number, if relevant, of the air show manager.
- c. Time and place for the holding of the air show.
- d. Outline of the show area with statement of area for spectators, the area over which aerobics flights are going to be performed, location of fire-fighting and rescue service, parking place for aircraft, place where sight-seeing flights are handled, area for balloon ascents, cf. paragraph 14.1, and area for parachute jumping, cf. Part 15.
- e. Detailed programme with statement of the names of the participating licence holders and the type and registration of the aircraft used.
- f. Copy of policy or declaration from an insurance company to the effect that third party liability insurance has been taken out in accordance with paragraph 4.2.

4.3.2 The third party liability insurance for an air show may be omitted if the air show only includes activities that are documented to the Civil Aviation Administration - Denmark to be covered by one or more valid declarations on third party liability insurance for aircraft.

5. Air show manager

5.1 The organiser of an air show shall appoint an air show manager.

5.2 The air show manager is responsible for the Air Navigation Act and regulations issued in pursuance thereof as well as permis-

sions granted are observed during the holding of the air show.

5.3 The air show manager shall ensure that the necessary permissions from other authorities are available before the air show is commenced and that conditions laid down in permissions are observed.

5.4 The air show manager shall at least be holder of a valid private pilot licence (A licence) and have obtained a flight time of at least 500 flight hours or hold a valid air traffic controller licence.

5.5 The air show manager shall ensure that the air show is carried through in a safe way, including ensuring that there is a sufficient number of helpers and that the necessary co-ordination takes place with the responsible person who has been appointed by the national defence, cf. paragraph 6.3.

5.6 Before the air show is commenced, the air show manager shall ensure that

- a. the area for spectators is efficiently roped off and guarded,
- b. the participating persons and the used materiel meet the stipulated regulations with regard to licences, certificates etc.,
- c. fire-fighting and rescue services are available at the air show area, and
- d. NOTAM has been issued containing instructions for operating to/from the place and information about the extent of the airspace in which the air show is to take place.

6. Participation of national defence or foreign military

6.1 If units from the national defence or foreign military units participate in a civil air show, the national defence shall appoint a person who is responsible for the military activities being planned and performed in compliance with the regulations of the national defence. If the regulations of the national defence are less strict than the regulations laid

down in this BL, the appointed person shall be responsible for the military activities being arranged and performed in compliance with the regulations in this BL.

6.2 The name of the appointed person responsible shall be included in the application for permission to hold the air show.

6.3 With a view to a proper preparation and holding of the air show as regards flight safety, the air show manager shall ensure that the necessary co-ordination takes place between him/her and the responsible person appointed by the national defence.

6.4 If military combat planes participate in the air show, the person appointed in accordance with paragraph 6.1 shall be present during the instruction, cf. paragraph 9.1, and during the air show until the military activities are finished.

7. Air show area

7.1 An air show shall be held at a public aerodrome. Permission from the aerodrome management shall be obtained.

7.1.1 The Civil Aviation Administration - Denmark may, however, permit that other areas are used when the owner's permission has been obtained.

7.2 If the air show area is used for take-off and/or landing, a mandatory take-off and/or landing direction shall be established. The take-off and landing direction shall be marked in accordance with BL 7-11.

7.3 The air show area shall be roped off so that the spectators cannot stay in the area within a distance of 150 m on both sides of the centre line of the take-off and landing stretch. Spectator areas or car parking places must not be established in the approach and departure zones.

7.3.1 Where the space does not permit a distance of 150 m on both sides of the centre line of the take-off and landing stretch, the Civil Aviation Administration - Denmark may in special cases permit that the distance is reduced to 100 m on both sides of the centre

line of the take-off and landing stretch. The limit shall be marked so that it clearly can be seen from aircraft over the place.

7.4 An efficient roping off shall be made between spectator areas and the air show area/landing area. The roping off shall be guarded in due time before the spectators are admitted, and it shall be maintained as long as flying activities connected with the air show take place.

7.5 Air shows may only be held at air show areas where radio communication installation has been established, cf. BL 3-32.

7.6 There shall be a telephone at the air show area.

8. Fire fighting, rescue and ambulance service

8.1 The air show supervisor and the leader of the local ambulance service shall determine the number of ambulances to be at the area during the air show. However, here must be at least one ambulance at the area during the entire air show.

8.2 The air show supervisor and the local fire fighting authority shall determine the number of fire and rescue vehicles to be at the air show area. At aerodromes where fire fighting and rescue service is already established, the air show supervisor shall agree with the leader of this service on the extent to which the fire fighting and rescue service shall be held in readiness during the air show.

8.3 The air show supervisor shall draw up instructions in co-operation with the local police authority, the local fire fighting authority and the aerodrome manager for the placing of the vehicles of the fire fighting and rescue service and for keeping clear approach and exit ways in case of emergency.

8.4 An ambulance shall be established for providing first aid.

9. Performance of an air show

9.1 Before an air show is started, the air show supervisor shall instruct all civil participants in the show about the various activities of the show programme and its performance.

9.1.1 The instruction shall include

- a. going through the general safety regulations,
- b. going through the regulations for the individual show activities, and
- c. information stating how to indicate that the air show must be interrupted immediately in case of accident or the like.

9.1.2 In connection with the instruction the air show supervisor shall ensure that

- a. all participants are present during the entire instruction, and
- b. all participants' watches show correct time.

9.3 Except for the regulations in Part 10, the air show supervisor may allow minor deviations from the approved programme if they are reasonably caused by actual conditions and if they do not involve an increased safety risk.

9.4 No flying activities may take place over or towards the spectators.

9.5 Low pass may only be performed parallel with and at a distance of at least 150 m from the spectators' area.

9.6 The various show activities must not be performed simultaneously, and no activity must be started before the previous activity has been finished.

9.7 If sightseeing flights are performed in connection with the air show, the boarding and alighting of passengers shall take place within a specially barred handling area. The passengers shall be accompanied between the

spectators' area and the aircraft used in connection with the sightseeing flight.

9.7.1 Sightseeing flights must not be performed as long as show activities are made in the air.

9.8 Passengers must not be carried during the performance of acrobatic flights and "crazy" flights.

10. Acrobatic flights

10.1 Acrobatic flights must only be performed by aircraft approved for this by the Civil Aviation Administration - Denmark as regards Danish registered aircraft, and by the registration state as regards foreign aircraft. The pilot shall have experience in acrobatic flights and must have performed the programme to be shown at least once within the past two months.

10.2 In connection with acrobatic flights the visibility shall be at least 8 km and the ceiling at least 900 m (3000 ft).

10.3 Acrobatic flights shall be performed parallel with and not closer than 150 m from the spectators' area. Acrobatic flight manoeuvres shall be finished in a minimum height of 150 m.

10.3.1 The limit of 150 m from the spectators' area shall be marked or appear on the ground in a way that it can easily be seen from aircraft over the area.

10.4 The pilot shall be fastened with shoulder straps during flight.

11. "Crazy" flights

11.1 "Crazy" flight must only be performed by pilots having great experience on the aircraft type in question. The pilot must have performed the programme to be shown at least once within the past two months.

11.2 A "crazy" flight may be started in a distance less than 150 m from the spectators. In such case the take-off shall be made in a direction away from the spectators.

11.3 During performance of a "crazy" flight the pilot shall have an exact knowledge of all meteorological conditions that may have any influence on the performance of the manoeuvres (wind direction, wind force, turbulence behind buildings, trees, fences, etc.).

11.4 All manoeuvres shall be made at a speed equalling at least 1.6 times the stall speed.

11.5 During the entire flight the pilot shall be fastened with shoulder straps.

12. Flights with ultralight aircraft

Air shows with ultralight aircraft shall be performed in accordance with the regulations in BL 9-6.

13. Hanggliding

Air shows with hanggliding shall be performed in accordance with the regulations in BL 9-5.

14. Balloon ascents with hot-air balloons

14.1 The area where filling and ascent is made shall be barred in such a way that the spectators cannot stay within the area.

14.1.1 During filling and ascent only the necessary persons may be present within the barred area.

15. Parachute jumps

Parachute jumps shall be performed in accordance with the regulations in BL 9-1, as regards air shows.

16. Flights with model aircraft

16. Flights with model aircraft shall be performed in such a way that the model aircraft does not land among the spectators in case of an incident.

16.2 In connection with flights with radio controlled model aircraft, measures shall be taken to prevent disturbances from other radio installations at the air show area.

17. Exemption

The Civil Aviation Administration - Denmark may in exceptional cases grant exemption from the regulations in this BL.

18. Complaints

Complaints of the decisions taken by the Civil Aviation Administration - Denmark in pursuance of the regulations in this BL may be presented to the Ministry of Transport.

19. Punishment

19.1 Violation of the provisions in paragraph 4.1 and Chapters 5 to 16 is punishable with fine.

19.2 Violation of the provisions in paragraph 4.2 is punishable with fine, simple detention or imprisonment for up to 2 years under subsection 3 of § 149 of the Air Navigation Act.

19.3 For violation committed by a limited company, a co-operative or the like, penalty may be imposed on the company/co-operative as such under subsection 13 of § 149 of the Air Navigation Act.

20. Implementation

20.1 This BL comes into force on 1 March 1990.

20.2 At the same time BL 5-3, 3 edition of 1 June 1972 is repealed.

Civil Aviation Administration - Denmark, 31 January 1990

Ole Asmussen

/M. Dambæk