

## **Examples of Parachute Demonstration Special Provisions**

**H. Parachute Demonstration Special Provisions.** As appropriate, include the applicable special provisions from this list for parachute demonstrations, including DOD tactical airborne demonstrations, that require an authorization under §105.21. Restrictions in this section are not appropriate for parachute jumping operations not requiring an authorization under §105.21. Parachuting demonstrations that seek relief from any requirement listed in these special provisions must have a letter of approval from AFS-800, 800 Independence Ave., SW, Washington, D.C. 20591 (e.g. Airborne re-enactment by civilians, for reduced experience, or lower opening altitudes) (3-150.A.3).

Failure to comply with any standard or special provision is a violation of the terms of this Certificate of Authorization (CoA) and justification for cancellation of this Certificate and constitutes a violation of Title 49 of the United States Code Section(s) 44711(a)(2)(B) and/or 44711(a)(5).

1. Except for military sanctioned teams and tactical airborne demonstrations by the DOD, all jumpers shall have a record of the following minimum competency and recent experience requirements:

(a) Open and Level I Landing Areas are:

- (i) At least USPA C license
- (ii) A minimum of 200 jumps
- (iii) 50 jumps within the previous 12 calendar-months including 5 jumps within the previous 60 days on the same make, model, and size of canopy to be used during the demonstration.
- (iv) The jumpers may exit over an open area and drift into a Level I landing area within a congested area and must land no closer than 100 feet (open area) and 50 feet (Level I) from any spectators and to pass over any spectators no lower than 250 feet, including the canopy and all external paraphernalia (3-150).

(b) Level II and Stadium Landing Areas are:

- (i) USPA D license with PRO rating, or equivalent.
- (ii) 50 jumps within the previous 12 calendar-months, and 5 jumps within the previous 60 days on the actual canopy, or same make, model, and size of canopy to be used during the demonstration.
- (iii) Jumpers must certify that they will use both a steerable main and reserve ram-air parachute.
- (iv) jumpers may exit over an open area and drift into a Level II or Stadium Landing Area within a congested area and must land no closer than 15 feet from any spectators and pass over any spectators no lower than 50 feet, including the canopy and all external paraphernalia (3-150.D.2)

2. Tandem Jump Demonstrations. Only tandem instructors, approved by the USPA may conduct tandem demonstrations. Tandem jumps may be authorized as follows:

- (a) Tandem jumps into open field and Level I landing areas do not require any previous jump experience for the passenger.
- (b) Tandem jumps into Level II areas require the passenger to have a USPA category D license with a Professional Exhibition Rating (PRO).
- (c) Tandem jumps into a Stadium Landing Area are prohibited.

3. Each civilian jumper shall not exceed the manufacturer's limitations (e.g. maximum suspended weight) for the parachute to be utilized in the demonstration. (Ref 14 CFR §105.5)

4. The holder of this CoA must position at least one person on the ground in the landing area to perform ground control duties. Ground control must have and utilize a means of constant communication with the jump aircraft. Direct two-way radio shall be the primary means of communication. In the event two-way radio communication is lost, a visual means of communication must be available that is capable of being identified and understood by the jumpers from the jump aircraft, and that will clearly indicate to jump or not to jump (3-150.B).

5. Procedures shall be established and used by the holder of this CoA to control spectators and keep them out of the landing area (3-143.A.17).

6. The holder of this CoA is responsible for ensuring that individual jumpers meet the minimum competency and recent experience requirements for the landing area used and the overall safe execution of the Jump exhibition. The final determination of site acceptability, landing area, wind conditions, and location of where to exit the jump aircraft (in accordance with the aforementioned special provisions) will be made by the team leader (3-150.B).

7. With the exception of members of DOD-sanctioned teams, under no circumstances may a parachutist exit an aircraft directly over a spectator area or an open-air assembly of people (14 CFR §105.21 and 3-148.F).

8. With the exception of DOD-sanctioned teams and tactical airborne demonstrations, parachutists shall deploy their parachutes at an altitude of not less than 2,000 feet AGL (3-150.B).

9. The decision to integrate Canopy Relative Work (CRW) into the parachute demonstration will be the responsibility of the team leader. The team leader will determine the effects of wind speed, direction, and turbulence when determining whether CRW can be conducted safely. This includes the decision to fly a completed formation over a spectator area or an open-air assembly of people. With the exception of DOD-sanctioned teams, CRW formations comprised of all USPA PRO-rated jumpers and any two jumper formation, CRW formations will not be flown below 1000 feet AGL for Level II landing areas, and 500 feet AGL for Level I landing areas. (3-150.C.2).

10. With the exception of DOD-sanctioned teams, no hook turns will be initiated below 200 feet AGL (3-150.C.2).

NOTE: *A hook turn is a maneuver in any maneuver sequence that causes the canopy to roll at an angle in excess of 45° from vertical and/or to pitch up or down at an angle in excess of 45° from horizontal while executing a turn in excess of 60°.*

11. With the exception of DOD-sanctioned teams, intentional cutaway performances will not be initiated below 3,000 feet AGL. Intentional cutaways will not be initiated from an altitude by anyone, including DOD sanctioned teams, that may cause the cutaway equipment to drift into the spectator area (3-150.H).

12. The team leader or jumpmaster is responsible for inspecting all parachutists' equipment and clothing, to include additional paraphernalia such as ropes, flags, and/or smoke/pyrotechnic devices for proper configuration and security prior to boarding the jump aircraft, and again just prior to exiting the jump aircraft (3-150.F).

13. All jumpers using additional paraphernalia such as ropes, flags, and/or smoke/pyrotechnic devices shall have at least one jump utilizing an identical device(s) prior to accomplishing the demonstration (3-150.C.2).

14. The holder of the CoA (may delegate to Air Boss) shall brief the PIC of the jump aircraft and the jumpers on the terms of this Certificate of Waiver or Authorization (3-153.B).

15. The PIC of the jump aircraft will contact the appropriate ATC facility 5 minutes prior to commencing jump operations and will notify the appropriate ATC facility when the last jumper has left the aircraft (14 CFR §105.13).

16. The responsible person [Insert name] will ensure that notification is made to the Lockheed Martin Flight Service Station (AFSS) 1-877-487-6867 of the date, time, place, demonstration areas, altitudes, nature of the activity, and duration of the operation and request that a Notice to Airmen (NOTAM D) be issued.

a. Such notice shall be accomplished by providing the controlling flight service station (FSS) with a copy of the CoA, at least 48 hours before the event and no more than 72 hours before the event. (Ref. 3-144 E 4)

17. Alternate Landings Areas. All parachutists must have an identified “runoff” or escape area that is coordinated with the responsible person/air-boss during the safety briefing on each day of the event.

18. The FAA has the authority to cancel or delay any or all acts or events if the safety of persons or property on the ground, or in the air, are in jeopardy or there is a violation of the terms of the waiver or authorization. (Ref. Vol. 6, Ch. 11, Sec. 10, 6-2374 B)