

CIVIL AVIATION AUTHORITY, PAKISTAN

Air Navigation Order

No. : 91.0009

Date : 6th May, 1999

Issue : One

DITCHING DEMONSTRATION

CONTENTS

SECTIONS:

1. Authority
2. Scope
3. Effective Date
4. Partial Ditching Demonstration
5. Applicability

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1. Authority

- 1.1. This Air Navigation Order (ANO) is issued by the Director-General of the Civil Aviation Authority (CAA) in pursuance of the powers vested in him under Rule 4 of the Civil Aviation Rules (CAR) 1994.
- 1.2. Rule 187 states that the holder of an "Air Operator Certificate issued under this Part shall be subject to such conditions as the Director-General may include in the certificate in the interests of flight safety" and 189 states that an operator shall comply with such rules as are applicable and with all operating conditions attached to the Air Operator Certificate (AOC). A ditching demonstration is to be required during the operational phase of the certification process, or any time deemed necessary by the Director General. The demonstration shall be required for each aircraft type, model, and configuration, which will be operated on extended flights over water routes or any route, which passes more than 50 nautical miles from land.
- 1.3. The purpose of the demonstration is to evaluate the adequacy of the operators training programme and his ability to safely prepare passengers, airplane, and ditching equipment for a planned water landing.
- 1.4. In addition to the initial demonstration by each operator during the initial certification process, a periodic demonstration of continuing proficiency is to be carried out by each operator at specified intervals. That frequency has been determined to be once each 5 years for all crewmembers or at the time of induction of a new type of aircraft. In the case of induction of a new but similar type of aircraft by an operator, the CAA will make a determination when the induction plan is submitted to CAA as to whether or not such a demonstration is required for that particular type of aircraft before it can be placed into service.

2. Scope

- 2.1. There are two types of ditching demonstrations, which may be required: full scale and partial. Since full-scale ditching demonstrations have been conducted by the aircraft manufacture during the type certification process for most airplane types, only partial demonstrations will normally be required by an applicant for the AOC.

3. Effective Date

- 3.1. This ANO shall come into effect on 06 May 1999.

4. Partial Ditching Demonstration

- 4.1. The following procedures will be followed in conducting a partial ditching demonstration:
- (a) The demonstration must be conducted during daylight hours or in a lighted hanger if conducted at night.
 - (b) All required crewmembers must be available and used.
 - (c) Passenger participants (company personnel other than crewmembers) who are acting as "passengers" will be used only when the operators procedures require passengers to assist in the removing and launching of life rafts. If used, passengers will not receive any instructions before the demonstration except what is contained in the operator's manual.
 - (d) To commence the demonstration, the crewmembers will simulate in a parked airplane a normal takeoff and climb to cruise flight. Engine start will be simulated and all checklists will be accomplished. Upon the CAA team leader signal, the captain will order the crew to prepare for ditching. At that time, the CAA team leader will commence timing for 6 minutes in order to give the crew time to prepare for a simulated water landing. After the simulated water landing, all life rafts must be removed from storage. This action is not specifically timed; however, the crewmembers must demonstrate competency in removing the rafts from the storage area and the raft must be capable of being removed from the airplane for deployment in a reasonable amount of time.
 - (e) When the ditching signal is given, each crewmember and evacuee must put on a life preserver in accordance with the operator's manual and the flight attendant's briefing.
 - (f) Each life raft must be removed from storage for inspection.
 - (g) One life raft, selected by the CAA team leader, will be inflated and launched and the evacuees assigned to the raft will get in it. The crewmembers assigned to the rafts will locate and describe the use of each item of emergency equipment contained in the raft.

Note: For the purpose of the demonstration, "launching" a life raft means to remove it from storage, manipulate it out of the airplane by means of stands or ramps, and position it on the ground before inflation. Launching a slide raft means to inflate it in the normal manner.

5. Applicability

5.1 The operator shall ensure strict compliance and if the ditching demonstration is unsatisfactory, the operator shall be required to conduct an additional ditching demonstration(s) after re-training of the crewmembers and or the deficiencies have otherwise been corrected.



Aminullah Chaudry
Director General
Civil Aviation Authority
Date: **06.5.99**