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Civil Aviation Authority

Safety

The Air Navigation (General) Regulations 2006

Last uploaded 09 February 2022

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2006 No. 601

CIVIL AVIATION

The Air Navigation (General) Regulations 2006

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Made

Coming into force

6th March 2006 30th March 2006

The Secretary of State for Transport, in exercise of his powers under articles 16(7)(a), 20(2), 20(4), 42(1)(c)(ii), 43(5), 44(5), 44(6), 45(1), 56(1), 57(1), 58(b), 131(1), 142(6), 143(2) and 155(1) of, and paragraphs 4 and 5(1) of Schedule 5 to, the Air Navigation Order 2005, makes the following Regulations.

Extent

Preamble: United Kingdom

PART 1

General

Law In Force

1. Citation and commencement

These Regulations may be cited as the Air Navigation (General) Regulations 2006, and shall come into force on 30th March 2006.

Commencement

Pt 1 reg. 1: March 30, 2006

Extent

Pt 1 reg. 1: United Kingdom



🔮 Law In Force

2. Revocation

The Air Navigation (General) Regulations 2005 are revoked.

Commencement

Pt 1 reg. 2: March 30, 2006

Extent

Pt 1 reg. 2: United Kingdom

🔮 Law In Force

3. Interpretation

In these Regulations—

- (a) "the Order" means the Air Navigation Order 2005;
- (b) references to an "article" mean an article of the Order; and
- (c) other expressions used in these Regulations shall have the same respective meanings as in the Order.

Commencement

Pt 1 reg. 3(a)-(c): March 30, 2006

Extent

Pt 1 reg. 3(a)-(c): United Kingdom

PART 2

Load Sheets and Weighing Requirements

V Law In Force

4. Particulars of load sheet

Every load sheet required by article 43(5) shall contain the following particulars—

(a) the nationality mark of the aircraft to which the load sheet relates, and the registration mark assigned to that aircraft by the CAA;

- (b) particulars of the flight to which the load sheet relates;
- (c) the total weight of the aircraft as loaded for that flight;

(d) the weights of the several items from which the total weight of the aircraft, as so loaded, has been calculated including in particular the weight of the aircraft prepared for service and the respective total weights of the crew (unless included in the weight of the aircraft prepared for service), passengers, baggage and cargo intended to be carried on the flight;



(e) the manner in which the load is distributed;

(f) the position of the centre of gravity of the aircraft resulting from the particulars mentioned in sub-paragraphs (c), (d) and (e) which may be given approximately if and to the extent that the relevant certificate of airworthiness so permits; and

(g) a certificate at the foot or end of the load sheet, signed by the person referred to in article 43(1) as responsible for the supervision of the loading of the aircraft, that the aircraft has been loaded in accordance with the written instructions furnished to him by the operator of the aircraft pursuant to article 43(1).

Commencement

Pt 2 reg. 4(a)-(g): March 30, 2006

Extent

Pt 2 reg. 4(a)-(g): United Kingdom

🔮 Law In Force

5.— Weighing requirements—passengers, crew and hand baggage

(1) Subject to paragraph (2), for the purpose of calculating the total weight of the aircraft the respective total weights of the passengers and crew together with their hand baggage entered in the load sheet shall be computed from the actual weight of each person and their hand baggage and for that purpose each person and their hand baggage shall be separately weighed.

(2) The total weights of the passengers and crew together with their hand baggage may, in accordance with paragraphs (3) to (8) and subject to regulation 7, be calculated at not less than the appropriate weights shown in Tables 1 or 2 and the load sheet shall bear a notation to that effect.

(3) Subject to paragraph (4) where the total number of passenger seats available on an aircraft is 20 or more, the weights for males and females in columns 1 and 2 of Table 1 shall be applicable.

(4) Where the total number of passenger seats available is 30 or more, the "all adult" weights in column 3 of Table 1 may be used for passengers over the age of 12 years.

(5) For the purpose of Table 1, "holiday charter" means a flight by an aircraft for the carriage of passengers each of whom is carried pursuant to an agreement which provides for carriage by air to a place outside the United Kingdom and back from that place, or from another place to the United Kingdom (whether or not on the same aircraft) and for accommodation at a place outside the United Kingdom.



Table 1

Aircraft with 20 or more passengers

	Passenger S	Seats Availa	ble
	20 or more		30 or more
	Column 1	Column 2	Column 3
	Male	Female	All Adult
Passengers on all flights except holiday charters	88kg	70kg	84kg
Passengers on holiday charters	83kg	69kg	76kg
Children (between 2–12 years) or infants under 2 years of age if occupying a separate seat	35kg	35kg	
Infants under 2 years of age if sharing a seat with an adult	0kg	0kg	
Flight crew	85kg	85kg	
Cabin crew	75kg	75kg	

(6) Where the total number of passenger seats available on an aircraft is 19 or less the weights in Table 2 shall be applicable.

Table 2

Aircraft with fewer than 20 passenger seats

	Passeng	ger Seats	Available
	1–5	6-9	10–19
Male passengers	104kg	96kg	92kg
Female passengers	86kg	78kg	74kg
Children (between 2–12 years) or infants under 2 years of age if occupying a separate seat	35kg	35kg	35kg
Infants under 2 years of age if sharing a seat with an adult	0kg	0kg	0kg
Flight crew	85kg	85kg	85kg
Cabin crew	75kg	75kg	75kg

(7) On flights where no hand baggage is carried or where such hand baggage is accounted for separately, 6 kg may be deducted from the weight of passengers over 12 years of age when using Table 2.

(8) Where an immersion suit is worn or carried by a passenger or crew member, 3kg shall be added to the appropriate weight shown in Table 1 or 2 in each such case.

Commencement

Pt 2 reg. 5(1)-(8): March 30, 2006

Extent

Pt 2 reg. 5(1)-(8): United Kingdom



🕑 Law In Force

6.— Weighing requirements—hold baggage and cargo

(1) Subject to paragraph (2), for the purpose of calculating the total weight of the aircraft the respective total weights of the hold baggage and cargo entered in the load sheet shall be computed from the actual weight of each piece of baggage, cargo or cargo container and for that purpose each piece or container shall be separately weighed.

(2) In the case of an aircraft where the total number of passenger seats available is 20 or more, the total weights of the holdbaggage may, subject to regulation 7, be calculated at not less than the weights shown in Table 3 and the load sheet shall bear a notation to that effect.

Table 3

Hold Baggage

Journey made by aircraft	Hold baggage per aircraft
Domestic journey	11kg
European journey	13kg
Intercontinental journey	15kg

(3) For the purposes of Table 3—

a "domestic journey" means a journey made by an aircraft which is confined within an area enclosed by rhumb lines joining successively the points shown in Table 4 but excluding any journey to or from Shannon;

Table 4

Domestic journey

N6100.00	W01100.00	N6100.00	E00200.00
N5105.00	E00200.00	N4930.00	W00400.00
N4930.00	W01100.00	N6100.00	W01100.00

a "European journey" is a journey made by an aircraft, not being a domestic journey, which is confined within an area enclosed by the rhumb lines joining successively the points shown in Table 5;

Table 5

European journey

N7200.00	E04500.00	N4000.00	E04500.00
N3500.00	E03700.00	N3000.00	E03700.00
N3000.00	W00600.00	N2700.00	W00900.00
N2700.00	W03000.00	N6700.00	W03000.00
N7200.00	W01000.00	N7200.00	E04500.00

an "intercontinental journey" is a journey made by an aircraft which is neither a domestic journey nor a European journey.



Commencement

Pt 2 reg. 6(1)-(3) definition of "intercontinental journey": March 30, 2006

Extent

Pt 2 reg. 6(1)-(3) definition of "intercontinental journey": United Kingdom

V Law In Force

7.— Loading—additional provisions

(1) If it appears to the person supervising the loading of the aircraft that any of the circumstances described in paragraph (2) arise he shall, if he considers it necessary in the interests of the safety of the aircraft, or if the CAA has so directed in the particular case, require any such person and his hand baggage, passenger or hold baggage, as the case may be, to be weighed for the purpose of the entry to be made in the load sheet.

(2) The circumstances referred to in paragraph (1) are—

(a) any person and his hand baggage to be carried exceeds the weights set out in Tables 1 or 2;

(b) where regulation 5(7) applies, any passenger to be carried exceeds the weights set out

in Table 2 as adjusted in accordance with that paragraph; or

(c) any hold baggage to be carried exceeds the weights set out in Table 3.

(3) If any person and his hand baggage, passenger or any hold baggage has been weighed pursuant to paragraph (1), the weights entered in the load sheet shall take account of—

(a) the actual weight of that person and his hand baggage, that passenger or that hold baggage, as the case may be; or

(b) the weight determined in accordance with regulation 5(2) or regulation 6(2),

whichever weight shall be the greater.

Commencement

Pt 2 reg. 7(1)-(3)(b): March 30, 2006

Extent

Pt 2 reg. 7(1)-(3)(b): United Kingdom

PART 3

Aircraft Performance



🔮 Law In Force

8.— Aeroplanes to which article 44(5) applies

(1) Aeroplanes to which this regulation applies shall comply with Schedule 1.

(2) This regulation applies to aeroplanes for which the CAA has granted a permission under article 44(5) except any aeroplane flying solely for the purpose of training persons to perform duties in aeroplanes.

Commencement

Pt 3 reg. 8(1)-(2): March 30, 2006

Extent

Pt 3 reg. 8(1)-(2): United Kingdom

🔮 Law In Force

9.— Helicopters to which article 45(1) applies

(1) Helicopters to which this regulation applies shall comply with Schedule 2.

(2) This regulation applies to helicopters to which article 45(1) applies except any helicopter flying solely for the purpose of training persons to perform duties in helicopters.

Commencement

Pt 3 reg. 9(1)-(2): March 30, 2006

Extent

Pt 3 reg. 9(1)-(2): United Kingdom

🔮 Law In Force

10.— Weight and performance—general provisions

(1) The assessment of the ability of an aeroplane to comply with therequirements of Schedule 1 and of a helicopter to comply with the requirements of Schedule 2 shall be based on the specified information as to its performance.

(2) In assessing the ability of an aeroplane to comply with sub-paragraphs (9), (12), (15) and (17) of paragraph 1 of Schedule 1, with sub-paragraphs (8) and (12) of paragraph 6 of Schedule 1 and with sub-paragraph (15) of paragraph 7 of Schedule 1, account may be taken of any reduction of the weight of the aeroplane which may be achieved after the failure of a power unit by such jettisoning of fuel as is feasible and prudent in the circumstances of the flight and in accordance with the flight manual relating to the aircraft.

(3) In this Part and in Schedules 1 and 2—

"specified" in relation to an aircraft means, unless otherwise stated, specified in, or ascertainable by reference to:



- (a) the certificate of airworthiness in force in respect of that aircraft; or
- (b) the flight manual or performance schedule for that aircraft;

"the accelerate-stop distance" means the distance from the point on the surface of the aerodrome at which the aeroplane can commence its take-off run to the nearest point in the direction of take-off at which the aeroplane cannot roll over the surface of the aerodrome and be brought to rest in an emergency without the risk of accident;

"the landing distance available" means the distance from the point on the surface of the aerodrome at which the aeroplane can commence its landing, having regard to the obstructions in its approach path, to the nearest point in the direction of landing at which the surface of the aerodrome is incapable of bearing the weight of the aeroplane under normal operating conditions or at which there is an obstacle capable of affecting the safety of the aeroplane;

"the take-off distance available" means either the distance from the point on the surface of the aerodrome at which the aeroplane can commence its take-off run to the nearest obstacle in the direction of take-off projecting above the surface of the aerodrome and capable of affecting the safety of the aeroplane, or one and one half times the take-off run available, whichever is the less;

"the take-off run available" means the distance from the point on the surface of the aerodrome at which the aeroplane can commence its take-off run to the nearest point in the direction of take-off at which the surface of the aerodrome is incapable of bearing the weight of the aeroplane under normal operating conditions.

(4) For the purposes of Schedules 1 and 2—

(a) the weight of the aircraft at the commencement of the take-off run or of the take-off shall be taken to be its gross weight including everything and everyone carried in or on it at the commencement of the take-off run or of the take-off;

(b) the landing weight of the aircraft shall be taken to be the weight of the aircraft at the estimated time of landing allowing for the weight of the fuel and oil expected to be used on the flight to the aerodrome of intended destination or any alternate aerodrome, as the case may be;

(c) where any distance referred to in paragraph (3) has been declared in respect of any aerodrome by the authority responsible for regulating air navigation over the territory of the Contracting State in which the aerodrome is situated, and in the case of an aerodrome in the United Kingdom, notified, that distance shall be deemed to be the relevant distance.

Commencement

Pt 3 reg. 10(1)-(4)(c): March 30, 2006

Extent

Pt 3 reg. 10(1)-(4)(c): United Kingdom



PART 4

Noise and vibration, maintenance and aerodrome facilities

🔮 Law In Force

11. Noise and vibration caused by aircraft on aerodromes

[(1) For the purposes of article 131(1), the conditions under which noise and vibrationmay be caused by aircraft (including military aircraft) on Governmentaerodromes, licensedaerodromes or on aerodromes at which the manufacture, repair ormaintenance of aircraft is carried out by persons carrying on business asmanufacturers or repairers of aircraft, shall be as follows—

- (a) the aircraft is taking off or landing; or
- (b) the aircraft is moving on the ground or water; or
- (c) the engines are being operated in the aircraft—
- (d) for the purpose of ensuring their satisfactory performance;

(e) for the purpose of bringing them to a proper temperature in preparation for, or at the end of, a flight; or

(f) for the purpose of ensuring that the instruments, accessories or other components of the aircraft are in a satisfactory condition.

(2) In this regulation "licensed aerodromes" means aerodromes-

(i) licensed under an Air Navigation Order made under section 60 (Air Navigation Orders) of the Civil Aviation Act 1982; or

(ii) authorised by a certificate in accordance with Commission Regulation (EU) No 139/2014 of 12 February 2014 laying down requirements and administrative procedures related to aerodromes pursuant to Regulation (EC) No 216/2008 of the European Parliament and of the Council.

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Notes

Existing reg.11 renumbered as reg.11(1) and reg.11(2) inserted by Air Navigation (Amendment) (No. 4) Order 2014/3302 Sch.1 para.6 (January 10, 2015)

Commencement

Pt 4 reg. 11(a)-(f): March 30, 2006

Extent

Pt 4 reg. 11(1)-(f): United Kingdom



12. Pilots maintenance—prescribed repairs or replacements

For the purposes of article 16(7)(a), the following repairs or replacements are prescribed—

(a) replacement of landing gear tyres, landing skids or skid shoes;



(b) replacement of elastic shock absorber cord units on landing gear where specialtools are not required;

(c) replacement of defective safety wiring or split pins excluding those in engine, transmission, flight control and rotor systems;

(d) patch-repairs to fabric not requiring rib stitching or the removal of structural parts or control surfaces, if the repairs do not cover up structural damage and do not include repairs to rotor blades;

(e) repairs to upholstery and decorative furnishing of the cabin or cockpit interiorwhen repair does not require dismantling of any structure or operating system or interfere with an operating system or affect the structure of the aircraft;

(f) repairs, not requiring welding, to fairings, non-structural cover plates and cowlings;

(g) replacement of side windows where that work does not interfere with thestructure or with any operating system;

(h) replacement of safety belts or safety harnesses;

(i) replacement of seats or seat parts not involving dismantling of any structure or of any operating system;

(j) replacement of bulbs, reflectors, glasses, lenses or lights;

(k) replacement of any cowling not requiring removal of the propeller, rotors or disconnection of engine or flight controls;

(l) replacement of unserviceable sparking plugs;

(m) replacement of batteries;

(n) replacement of wings and tail surfaces and controls, the attachments of which are designed to provide for assembly immediately before each flight and dismantling after each flight;

(o) replacement of main rotor blades that are designed for removal where special tools are not required;

(p) replacement of generator and fan belts designed for removal where specialtools are not required;

(q) replacement of VHF communication equipment, being equipment which is not combined with navigation equipment.

Commencement

Pt 4 reg. 12(a)-(q): March 30, 2006

Extent

Pt 4 reg. 12(a)-(q): United Kingdom

🔮 Law In Force

13.— Aeroplanes flying for the purpose of public transport of passengers—aerodrome facilities for approach to landing and landing

(1) This regulation shall apply to every aeroplane registered in the United Kingdom engaged on a flight for the purpose of public transport of passengers on a scheduled journey and to every aeroplane so registeredwhose maximum total weight authorised exceeds 5,700 kg engaged on a flight for such a purpose otherwise than on a scheduled journey.



(2) For the purposes of article 42(1)(c)(ii), the following manning and equipmentare prescribed in relation to aerodromes intended to be used for landing or as an alternate aerodrome by aircraft to which this regulation applies—

(a) air traffic control service or aerodrome flight information service, including the reporting to aircraft of the current meteorological conditions at the aerodrome;

(b) very high frequency radiotelephony;

(c) at least one of the following radio navigation aids, either at the aerodrome or elsewhere, and in either case for the purpose of assisting the pilot in locating the aerodrome and in making an approach to landing there—

(i) radio direction finding equipment utilising emissions in the very high frequency bands;

(ii) a non-directional radio beacon transmitting signals in the low or medium frequency bands;

- (iii) very high frequency omni-directional radio range;
- (iv) radar equipment.

(3) Subject to paragraph (4), an aircraft to which this regulation applies shall not land or make an approach tolanding at any aerodrome unless—

(a) one of the services and the equipment prescribed by paragraph (2) are provided and are in operation at that aerodrome;

(b) such services and equipment can be made use of by that aircraft; and

(c) in the case of the navigation aids specified in paragraph (2)(c), instructions and procedures for the use of the aid are included in the operations manual relating to the aircraft.

(4) A person shall be deemed not to have contravened paragraph (3) if he proves that—

(a) for the time being use could not be made of the radio navigation aids provided under paragraph (2)(c) whether by reason of those aids not being in operation or of the unserviceability of equipment in the aircraft itself; and

(b) the approach to landing was made in accordance with instructions and procedures appropriate to that circumstance and included in the operations manual relating to the aircraft.

Commencement

Pt 4 reg. 13(1)-(4)(b): March 30, 2006

Extent

Pt 4 reg. 13(1)-(4)(b): United Kingdom

PART 5

Mandatory Reporting



V Law In Force

14.— Reportable occurrences — time and manner of reporting and information to be reported

(1) For the purposes of article 142(6) but subject to paragraph (2) it is prescribed that a report containing the information referred to in paragraph (3) shall be made to the CAA by post, telex, electronic, facsimile transmission or other similar means which produces a document containing a text of the communication (written in English) within 96 hours of the reportable occurrence coming to the knowledge of the person making the report.

(2) If at the expiry of the time allowed by paragraph (1) for making the report any of the information referred to in that paragraph is not in the possession of the person making the report, he shall despatch the report to the CAA by post, telex, electronic, facsimile transmission or other similar means which produces a document containing a text of the communication (written in English) within 96 hours of the information coming into his possession.

(3) For the purposes of article 142(6), a report shall, as far as possible, contain the following information—

- (a) the type, series and registration marks of the aircraft concerned;
- (b) the name of the operator of the aircraft;
- (c) the date of the reportable occurrence;

(d) if the person making the report has instituted an investigation into the reportable occurrence, whether or not this has been completed;

(e) a description of the reportable occurrence, including its effects and any other relevant information;

- (f) in the case of a reportable occurrence which occurs during flight—
 - (i) the Co-ordinated Universal Time of the occurrence;
 - (ii) the last point of departure and the next point of intended landing of the aircraft at that time; and
 - (iii) the geographical position of the aircraft at that time;

(g) in the case of a defect in or malfunctioning of an aircraft or any part or equipment of an aircraft, the name of the manufacturer of the aircraft, part or equipment, as the case may be, and, where appropriate, the part number and modification standard of the part or equipment and its location on the aircraft;

(h) the signature and name in block capitals of the person making the report, the name of his employer and the capacity in which he acts for that employer; and

(i) in the case of a report made by the commander of an aircraft or a person referred to in sub-paragraphs (f), (g) or (h) of article 142(5), the address or telephone number at which communications should be made to him, if different from that of his place of employment.

Commencement

Pt 5 reg. 14(1)-(3)(i): March 30, 2006

Extent

Pt 5 reg. 14(1)-(3)(i): United Kingdom



🔮 Law In Force

15.— Mandatory reporting of birdstrikes — time and manner of reporting and information to be reported

(1) Subject to paragraph (2), for the purposes of article 143(2) a report containing the information referred to in paragraph (3) shall be made to the CAA by post, telex, electronic, facsimile transmission or other similar means which produce a document containing a text of the communication (written in English) within 96 hours of the birdstrike occurrence coming to the knowledge of the person making the report.

(2) If at the expiry of the time allowed by paragraph (1) for making the report any of the information referred to in that paragraph is not in the possession of the person making the report, he shall despatch the report to the CAA by post, telex, electronic, facsimile transmission or other similar means which produce a document containing a text of the communication (written in English) within 96 hours of the information coming into his possession.

(3) For the purposes of article 143(2) a report shall, as far as possible, contain the following information—

- (a) the type, series and registration marks of the aircraft concerned;
- (b) the name of the operator of the aircraft;
- (c) the date and the Co-ordinated Universal Time of the birdstrike occurrence;

(d) the last point of departure and the next point of intended landing of the aircraft at that time;

(e) a description of the birdstrike occurrence, including the part(s) of the aircraft affected, the effect on flight and any other relevant information;

- (f) the bird species/description;
- (g) the weather at the time of the occurrence;
- (h) the runway in use (where relevant);
- (i) the height and speed of the aircraft;
- (j) the phase of flight;
- (k) the position (if en route) of the aircraft at the time of the birdstrike;
- (l) any other reporting action taken;
- (m) the signature and name in block capitals of the person making the report;
- (n) the name of his employer and the capacity in which he acts for that employer; and
- (o) the address or telephone number at which communications should be made to him.

Commencement

Pt 5 reg. 15(1)-(3)(o): March 30, 2006

Extent

Pt 5 reg. 15(1)-(3)(o): United Kingdom



PART 6

Navigation performance and equipment

V Law In Force

16.— Minimum navigation performance and height keeping specifications

(1) For the purposes of article 56(1) the following navigation performance capability is prescribed, that is to say, a capability to ensure that—

(a) the standard deviation of lateral errors in the track of the aircraft is not more than 6.3 nautical miles;

(b) the proportion of the flight time of the aircraft during which the actual track of the aircraft is 30 nautical miles or more off the track along which it has been given an air traffic control clearance to fly is less than $5.3 \times 10-4$, and;

(c) the proportion of the flight time of the aircraft during which the actual track of the aircraft is between 50 and 70 nautical miles off the track along which it has been given an air traffic control clearance to fly is less than $13 \times 10-5$.

(2) For the purposes of article 57(1), the following height keeping performance capability is prescribed, that is to say, a capability to ensure that—

(a) altimetry system error shall be in compliance with paragraph 2.1.1(2) of Document 7030/4-NAT Part 1 Rules of the Air, Air Traffic Services and Search and Rescue (ICAO Regional Procedures, Fourth Edition-1987);

(b) in respect of aircraft first registered in a Contracting State on or after 1st January 1997 altitude can be automatically controlled within a tolerance band of + / - 65 feet; and

(c) in respect of aircraft first registered in a Contracting State before 1st January 1997 altitude can be automatically controlled within a tolerance band of + / -130 feet.

Commencement

Pt 6 reg. 16(1)-(2)(c): March 30, 2006

Extent

Pt 6 reg. 16(1)-(2)(c): United Kingdom

Law In Force

17. North Atlantic Minimum Navigation Performance Specification Airspace

For the purposes of articles 56(1) and 155(1), the following airspace is prescribed as North Atlantic Minimum Navigation Performance Specification airspace, that is to say, the airspace from flight level 285 to flight level 420 within the area defined by rhumb lines joining successively the following points—



Table 6

North Atlantic Minimum Navigation Performance Specification airspace

N3410.00 W01748.00	North Pole	N4152.00 W06700.00
N3630.00 W01500.00	N8200.00 W06000.00	N3900.00 W06700.00
N4200.00 W01500.00	N7800.00 W07500.00	N3835.00 W06853.00
N4300.00 W01300.00	N7600.00 W07600.00	N3830.00 W06915.00
N4500.00 W01300.00	N6500.00 W05745.00	N3830.00 W06000.00
N4500.00 W00800.00	N6500.00 W06000.00	N2700.00 W06000.00
N5100.00 W00800.00	N6400.00 W06300.00	N2700.00 W04000.00
N5100.00 W01500.00	N6100.00 W06300.00	N2218.00 W04000.00
N5400.00 W01500.00	N5700.00 W05900.00	N1700.00 W03730.00
N5434.00 W01000.00	N5300.00 W05400.00	N2400.00 W02500.00
N6100.00 W01000.00	N4900.00 W05100.00	N3000.00 W02500.00
N6100.00 00000.00	N4500.00 W05100.00	N3000.00 W02000.00
N8200.00 00000.00	N4500.00 W05300.00	N3139.00 W01725.00
N8200.00 E03000.00	N4336.00 W06000.00	

and from there by that part of the arc of a circle radius 100 nautical miles centred on N3304.00 W01621.00 to N3410.00 W01748.00.

Commencement

Pt 6 reg. 17: March 30, 2006

Extent

Pt 6 reg. 17: United Kingdom

V Law In Force

18. Airborne Collision Avoidance System

For the purposes of paragraph 5(1) of Schedule 5 to the Order the prescribed requirements for an airborne collision avoidance system shall be the requirements for ACAS II equipment set out in Volume IV (Third Edition-July 2002), Chapter 4, of Annex 10 to the Chicago Convention.

Commencement

Pt 6 reg. 18: March 30, 2006

Extent

Pt 6 reg. 18: United Kingdom



🕑 Law In Force

19.— Mode S Transponder

(1) For the purposes of paragraph 4 of Schedule 5 to the Order, the capability and functionality prescribed for Mode S Elementary Surveillance shall be that specified for a level 2 transponder in Volumes III (First Edition-July 1995) and IV (Third Edition-July 2002) of Annex 10 (Third Edition) to the Chicago Convention together with the additional functionality specified in paragraph (3).

(2) For the purposes of paragraph 4 of Schedule 5 to the Order, the capability and functionality prescribed for Mode S Enhanced Surveillance shall be that specified for a level 2 transponder in Volumes III (First Edition-July 1995) and IV (Third Edition-July 2002) of Annex 10 (Third Edition) to the Chicago Convention together with the additional functionality specified in paragraph (3) and the additional downlinked parameters specified in paragraph (4).

(3) The additional functionality referred to in paragraphs (1) and (2) is—

(a) capability to support the Interrogator Identifier (II) Code and Surveillance Identifier (SI) Code functionality;

(b) Extended Squitter Functionality which, for this purpose, means functionality that supports Mode S Elementary Surveillance and Mode S Enhanced Surveillance to provide Automatic Dependant Surveillance-Broadcast, using unsolicited transponder broadcasts;(c) ACAS Active Resolution Advisory.

(c) ACAS Active Resolution Advisory.

(4) The additional downlinked parameters referred to in paragraph (2) are—

- (a) reporting of the Magnetic Heading Downlinked Aircraft Parameter;
- (b) reporting of the Indicated Airspeed Downlinked Aircraft Parameter;
- (c) reporting of the Mach Number Downlinked Aircraft Parameter;
- (d) reporting of the Vertical Rate Downlinked Aircraft Parameter;
- (e) reporting of the Roll Angle Downlinked Aircraft Parameter;
- (f) reporting of the Track Angle Rate Downlinked Aircraft Parameter;
- (g) reporting of the True Track Angle Downlinked Aircraft Parameter;
- (h) reporting of the Ground Speed Downlinked Aircraft Parameter;

(i) reporting of the Selected Vertical Intent Downlinked Aircraft Parameter (including Barometric Pressure Setting).

Commencement

Pt 6 reg. 19(1)-(4)(i): March 30, 2006

Extent

Pt 6 reg. 19(1)-(4)(i): United Kingdom

🔮 Law In Force

Signed by authority of the Secretary of State for Transport

Karen Buck Parliamentary Under Secretary of State Department for Transport

6th March 2006



SCHEDULE 1

AEROPLANE PERFORMANCE

Regulation 8

V Law In Force

1.— Weight and performance of public transport aeroplanes specified as aeroplanes of performance group A or performance group B

(1) For the purposes of article 44(6) an aeroplane registered in the United Kingdom, in respect of which there is in force under article 44(5) a permission specifying the aeroplane as being of performance group A or performance group B, shall not fly for the purpose of public transport unless the weight of the aeroplane at the commencement of the take-off run is such that the requirements of sub-paragraphs (2), (3), (5), (9), (12), (15), (17), (18) and (19) are met.

(2) That weight shall not exceed the maximum take-off weight specified for the altitude and the air temperature at the aerodrome at which the take-off is to be made.

(3) Subject to sub-paragraph (4), the take-off run, take-off distance and the accelerate-stop distance respectively required for take-off, specified as being appropriate to—

- (a) the weight of the aeroplane at the commencement of the take-off run;
- (b) the altitude at the aerodrome;
- (c) the air temperature at the aerodrome;
- (d) the condition of the surface of the runway from which the take-off will be made;

(e) the slope of the surface of the aerodrome in the direction of take-off over the take-off run available, the take-off distance available and the accelerate-stop distance available, respectively; and

(f) not more than 50 per cent. of the reported wind component opposite to the direction of take-off or not less than 150 per cent. of the reported wind component in the direction of take-off,

shall not exceed the take-off run, the take-off distance and the accelerate-stop distance available, respectively, at the aerodrome at which the take-off is to be made.

(4) In ascertaining the accelerate-stop distance available required pursuant to sub-paragraph (3), the point at which the pilot is assumed to decide to discontinue the take-off shall not be nearer to the start of the take-off run than the point at which, in ascertaining the take-off run required and the take-off distance required, he is assumed to decide to continue the take-off, in the event of power unit failure.

(5) Subject to sub-paragraphs (6), (7) and (8), the net take-off flight path of the aeroplane with one power unit inoperative, specified as being appropriate to—

- (a) the weight of the aeroplane at the commencement of the take-off run;
- (b) the altitude at the aerodrome;
- (c) the air temperature at the aerodrome;

(d) not more than 50 per cent. of the reported wind component opposite to the direction of take-off or not less than 150 per cent. of the reported wind component in the direction of take-off,



which is plotted from a point 35 feet above the end of the take-off distance required at the aerodrome atwhich the take-off is to be made to aheight of 1,500 feet above the aerodrome, shall show that the aeroplane will clear any obstacle in its path by a vertical interval of at least 35 feet.

(6) If it is intended that the aeroplane shall change its direction of flight by more than 15° before reaching 1,500 feet above the aerodrome the net take-off flight path of the aeroplane referred to in sub-paragraph (5) shall—

(a) be plotted from a point 50 feet above the end of the take-off distance required at the aerodrome atwhich the take-off is to be made to aheight of 1,500 feet above the aerodrome; and

(b) show that the aeroplane will clear any obstacle in its path by a vertical interval of at least 50 feet during the change of direction.

(7) For the purpose of sub-paragraphs (5) and (6) an obstacle shall be deemed to be in the path of the aeroplane if the distance from the obstacle to the nearest point on the ground below the intended line of flight of the aeroplane does not exceed—

(a) a distance of 60 metres plus half the wing span of the aeroplane plus one eighth of the distance from such point to the end of the take-off distance available measured along the intended line of flight of the aeroplane; or

(b) 900 metres,

whichever is least.

(8) In assessing the ability of the aeroplane to satisfy sub-paragraphs (5) and (6), it shall not be assumed the aeroplane will make a change of direction of a radius less than the specified radius of steady turn.

(9) Subject to sub-paragraphs (10) and (11), the aeroplane shall-

(a) in the meteorological conditions expected for the flight;

(b) in the event of any one power unit becoming inoperative at any point on its route or on any planned diversion from it; and

(c) with the other power unit or units operating within the specified maximum continuous power conditions,

be capable of continuing the flight, clearing obstacles within 10 nautical miles either side of the intended track by a vertical interval of at least 2,000 feet, to an aerodrome at which it can comply with sub-paragraph (19); and on arrival over such aerodrome the gradient of the specified net flight path with one power unit inoperative shall not be less than zero at 1,500 feet above the aerodrome.

(10) In assessing the ability of the aeroplane to satisfy sub-paragraph (9) it shall not be assumed to be capable of flying at an altitude exceeding the specified maximum permissible altitude for power unit restarting.

(11) If the operator of the aeroplane is satisfied, taking into account the navigation aids which can be made use of by the aeroplane on the route, that the commander of the aeroplane will be able to maintain his intended track on that route within a margin of 5 nautical miles, sub-paragraph (9) shall have effect as if 5 nautical miles were substituted for 10 nautical miles.

(12) Subject to sub-paragraphs (13) and (14), if the aeroplane has three or more power units, it shall—

- (a) in the meteorological conditions expected for the flight; and
- (b) in the event of any two power units becoming inoperative at any point:
 - $(i) \ along \ the \ route \ ; \ or$



(ii) on any planned diversion from the route which is more than 90 minutes flying time in still air, at the all power units operating economical cruise speed, from the nearest aerodrome at which it can comply with sub-paragraph (19),

be capable of continuing the flight with all other power units operating within the specified maximum continuous power conditions, clearing by a vertical interval of at least 2,000 feet obstacles within 10 nautical miles either side of the intended track to such an aerodrome; and on arrival over such an aerodrome the gradient of thespecified net flight path with two power units inoperative shall not be less than zero at 1,500 feet above the aerodrome.

(13) In assessing the ability of the aeroplane to satisfy sub-paragraph (12) it shall not be assumed to be capable of flying at an altitude exceeding the specified maximum permissible altitude for power unit restarting.

(14) If the operator of the aeroplane is satisfied, taking intoaccount the navigation aids which can be made use of by the aeroplane on the route, that the commander of the aeroplane will be able to maintain his intended track on that route within a margin of 5 nautical miles, sub-paragraph (12) shall have effect as if 5 nautical miles were substituted for 10 nautical miles.

(15) Subject to sub-paragraph (16), if the aeroplane-

(a) has two power units and a maximum total weight authorised which exceeds 5,700 kg; and

(b) is not limited by its certificate of airworthiness to the carriage of less than 20 passengers, it shall, in the meteorological conditions expected for the flight, be not more than 60 minutes flying time, at the normal one engine inoperative cruise speed in still air, from the nearest aerodrome at which it can comply with sub-paragraph (19) at any point along the route or any planned diversion from it.

(16) Sub-paragraph (15) shall not apply to an aeroplane flying under, and in accordance with, the terms of a written permission granted by the CAA to the operator under this sub-paragraph.

(17) If the aeroplane has—

- (a) two power units and a maximum total weight authorised of 5,700kg or less; or
- (b) two power units and a maximum total weight authorised of more than 5,700kg but is
- limited by its certificate of airworthiness to the carriage of less than 20 passengers,

it shall, in the meteorological conditions expected for the flight, be not more than 90 minutes flying time in still air, at the all power units operating economical cruise speed, from the nearest aerodrome at which it can comply with sub-paragraph (19).

(18) The landing weight of the aeroplane shall not exceed the maximum landingweight specified for the altitude and the expected air temperature for the estimated time of landing at the aerodrome of intended destination and at any alternate aerodrome.

(19) Subject to sub-paragraphs (20) and (21), the landing distances required for an aeroplane powered by turbine-jet, turbine propeller or piston engines, respectively specified as being appropriate to—

- (a) the aerodrome of intended destination; and
- (b) any alternate aerodrome,

shall not exceed the landing distance available on the most suitable runway for a landing in still air conditions and the landing distance available on the runway that may be required for landing because of the forecast wind conditions at the aerodrome of intended destination or any alternate aerodrome.



(20) If an alternate aerodrome is designated in the flight plan, the specified landing distance required may be that appropriate to that alternate aerodrome when assessing the ability of the aeroplane to satisfy sub-paragraph (19) at the aerodrome of intended destination.

(21) For the purposes of sub-paragraphs (19) and (20) the specified landing distance required shall be that specified as being appropriate to—

(a) the landing weight;

(b) the altitude of the aerodrome;

(c) the temperature in the specified international standard atmosphere appropriate to the altitude at the aerodrome;

(d) a level surface in the case of runways usable in both direction; or the average slope of the runway in the case of runways usable inonly one direction; and

(e) still air conditions in the case of the most suitable runway for a landing in still air conditions and not more than 50 per cent. of the forecast wind component opposite to the direction of landing or not less than 150 per cent. of the forecast wind component in the direction of landing in the case of the runway that may be required for landing because of the forecast wind conditions.

Commencement

Sch. 1 para. 1(1)-(21)(e): March 30, 2006

Extent

Sch. 1 para. 1(1)-(21)(e): United Kingdom

🔮 Law In Force

2.— Weight and performance of public transport aeroplanes specified as aeroplanes of performance group C

(1) For the purposes of article 44(6), an aeroplane registered in the United Kingdom in respect of which there is in force under article 44(5) a permission specifying the aeroplane as being of performance group C shall not fly for the purpose of public transport unless the weight of the aeroplane at the commencement of the take-off run is such that the requirements of sub-paragraphs (2), (3), (4), (8), (12), (14), (15) or, as an alternative to sub-paragraph (15), (17) are met.

(2) The weight of the aeroplane shall not exceed the maximum take-off weight specified for the altitude and the air temperature at the aerodrome at which the take-off is to be made.

(3) The take-off run required and the take-off distance required, specified as being appropriate to—

- (a) the weight of the aeroplane at the commencement of the take-off run;
- (b) the altitude at the aerodrome;
- (c) the air temperature at the aerodrome;

(d) the average slope of the surface of the aerodrome in the direction of take-off over the accelerate-stop distance available; and

(e) not more than 50 per cent. of the reported wind component opposite to the direction of take-off or not less than 150 per cent. of the reported wind component in the direction of take-off,



shall not exceed the take-off run available and the accelerate-stop distance available, respectively, at the aerodrome at which the take-off is to be made.

(4) Subject to sub-paragraphs (5), (6) and (7), the net take-off flight path of the aeroplane, with all power units operating, specified as being appropriate to—

- (a) the weight of the aeroplane at the commencement of the take-off run;
- (b) the altitude of the aerodrome;
- (c) the air temperature at the aerodrome;
- (d) not more than 50 per cent. of the reported wind component opposite to the direction of the take-off or not less than 150 per cent. of the reported wind component in the direction of take-off,

which is plotted from a point 50 feet above the end of the take-off distance required at the aerodrome at which the take-off is to be made to a height of 1,500 feet above the aerodrome, shall show that the aeroplane will clear any obstacle in its path by a vertical interval of not less than 35 feet.

(5) If it is intended that the aeroplane shall change its direction of flight by more than 15° before reaching 1,500 feet above the aerodrome the vertical interval referred to in sub-paragraph (4) shall be not less than 50 feet during the change of direction.

(6) For the purpose of sub-paragraph (4) an obstacle shall be deemed to be in the path of the aeroplane if the distance from the obstacle to the nearest point on the ground below the intended line of flight of the aeroplane does not exceed 75 metres.

(7) In assessing the ability of the aeroplane to satisfy sub-paragraph (4), it shall not be assumed the aeroplane will make a change of direction of a radius less than the specified radius of steady turn.

(8) Subject to sub-paragraphs (9), (10) and (11), if the aeroplane is intended to be flown for any period before reaching a height of 1,500 feet above the aerodrome from which the take-off is to be made in conditions which will not ensure that any obstacles can be located by means of visual observation, the net take-off flight path of the aeroplane, with one power unit inoperative, which is—

(a) specified as being appropriate to the factors contained in paragraphs (a) to (d) of sub-paragraph (4); and

(b) plotted from the point of the net take-off flight path, with all power units operating specified as being appropriate to those factors at which, in the meteorological conditions expected for the flight, the loss of visual reference would occur,

shall show that the aeroplane will clear by a vertical interval of not less than 35 feet any obstacle in its path.

(9) If it is intended that the aeroplane shall change its direction of flight by more than 15° before reaching 1,500 feet above the aerodrome the vertical interval referred to in sub-paragraph (8) shall not be less than 50 feet during the change of direction.

(10) For the purpose of sub-paragraph (8) an obstacle shall be deemed to be in the path of the aeroplane if the distance from the obstacle to the nearest point on the ground below the intended line of flight of the aeroplane does not exceed—

(a) 75 metres plus one-eighth of the distance from such point to the end of the accelerate-stop distance available measured along the intended line of flight of the aeroplane; or

(b) 900 metres,

whichever is least.





(11) In assessing the ability of the aeroplane to satisfy sub-paragraph (8) it shall not be assumed the aeroplane will make a change of direction of a radius of less than the specified radius of steady turn.

(12) Subject to sub-paragraph (13), the aeroplane shall—

(a) at any time after it reaches a height of 1,500 feet above the aerodrome from which the take-off is made;

(b) in the event of any one power unit becoming inoperative at any point on its route or on any planned diversion from it;

(c) with the other power unit or power units operating within the specified maximum continuous power conditions; and

(d) in the meteorological conditions expected for the flight,

be capable of continuing the flight at altitudes not less than the relevant minimum altitude for safe flight stated in, or calculated from the information contained in, the operations manual relating to the aeroplane to a point 1,500 feet above an aerodrome at which a safe landing can be made; and after arrival at that point shall be capable of maintaining that height.

(13) In assessing the ability of the aeroplane to satisfy sub-paragraph (12) it shall not be assumed to be capable of flying at any point on its route at an altitude exceeding the performance ceiling, with all power units operating, specified as being appropriate to its estimated weight at that point.

(14) The landing weight of the aeroplane shall not exceed the maximum landingweight specified for the altitude and the expected air temperature for the estimated time of landing at the aerodrome of intended destination and at any alternate aerodrome.

(15) Subject to sub-paragraphs (16) and (17), the distance required by the aeroplane to land from a height of 50 feet above the threshold of the runway, otherwise than in accordance with specified data for short field landing, at—

(a) the aerodrome of intended destination; and

(b) any alternate aerodrome,

shall not exceed 70 per cent. of the landing distance available on the most suitable runway for a landing in still air conditions and 70 per cent. of the landing distance available on the runway that may be required for landing because of the forecast wind conditions.

(16) For the purposes of sub-paragraph (15) the distance required to land from a height of 50 feet above the threshold of the runway shall be taken to be that specified as being appropriate to—

- (a) the landing weight;
- (b) the altitude at the aerodrome;

(c) the temperature in the specified international standard atmosphere appropriate to the altitude at the aerodrome;

(d) the level surface in the case of runways usable in both directions or the average slope of the runway in the case of runways usable in only one direction;

(e) still air conditions in the case of the most suitable runway for landing in still air conditions; and

(f) not more than 50 per cent. of the forecast wind component opposite to the direction of landing or not less than 150 per cent. of the forecast wind component in the direction of landing in the case of the runway that may be required for landing because of the forecast wind conditions.



(17) As an alternative to sub-paragraph (15) but subject to sub-paragraphs (18), (19) and (20) the distance required by the aeroplane to land in accordance with specified data for short field landing, with all power units operating or with one power unit inoperative at—

(a) the aerodrome of intended destination; and

(b) any alternate aerodrome,

shall not exceed the landing distance available on the most suitable runway for a landing in still air conditions and the landing distance available on the runway that may be required for landing because of the forecast wind conditions.

(18) For the purposes of sub-paragraph (17) the distance required to land from the appropriate height shall be taken to be that specified as being appropriate to the factors set forth in paragraphs (a) to (e) of sub-paragraph (16) and, subject to sub-paragraph (19), the appropriate height shall be—

(a) for a landing with all power units operating—any height between 30 and 50feet above the threshold of the runway in the United Kingdom, and 50 feet above the threshold of the runway elsewhere; and

(b) for a landing with one power unit inoperative—50 feet above the threshold of the runway in both the United Kingdom and elsewhere.

(19) If the specified distance required to land with one power unit inoperative from a height of 50 feet above the threshold of the runway at the aerodrome of intended destination exceeds the landing distance available, it shall be sufficient compliance with paragraph (b) of sub-paragraph (18) if an alternate aerodrome, which has available the specified landing distance required to land with one power unit inoperative from such a height, is designated in the flight plan.

(20) The distance required by the aeroplane to land shall be determined in accordance with sub-paragraph (15), and not in accordance with sub-paragraph (17), if either—

(a) it is intended to land at night; or

(b) it is intended to land when the cloud ceiling or ground visibility forecast for the estimated time of landing at the aerodrome of intended destination, and at any alternate aerodrome at which it is intended to land in accordance with specified data for short field landing with all power units operating, are less than 500 feet and one nautical mile respectively.

Commencement

Sch. 1 para. 2(1)-(20)(b): March 30, 2006

Extent

Sch. 1 para. 2(1)-(20)(b): United Kingdom

Law In Force

3.— Weight and performance of public transport aeroplanes specified as aeroplanes of performance group **D**

(1) For the purposes of article 44(6) and subject to sub-paragraph (13), an aeroplane registered in the UnitedKingdom, in respect of which there is in force under article 44(5) a permission specifying the aeroplane as being of performance group D, shall not fly for the purpose of public transport



unless the weight of the aeroplane at the commencement of the take-off run is such that the requirements of sub-paragraphs (2), (3), (4), (8), (10) and (11) are met.

(2) That weight shall not exceed the maximum take-off weight specified for the altitude and air temperature at the aerodrome at which the take-off is to be made.

(3) The take-off run required and the take-off distance required specified as being appropriate to—

- (a) the weight of the aeroplane at the commencement of the take-off run;
- (b) the altitude of the aerodrome;
- (c) the air temperature at the aerodrome;

(d) the average slope of the surface of the aerodrome in the direction of take-off over the accelerate-stop distance available; and

(e) not more than 50 per cent. of the reported wind component opposite to the direction of take-off or not less than 150 per cent. of the reported wind component in the direction of take-off,

shall not exceed the take-off run available and the accelerate-stop distance available, respectively, at the aerodrome at which the take-off is to be made.

(4) Subject to sub-paragraphs (5), (6) and (7), the net take-off flight path with all power units operating, specified as being appropriate to—

- (a) the weight of the aeroplane at the commencement of the take-off run;
- (b) the altitude at the aerodrome;
- (c) the air temperature at the aerodrome; and

(d) not more than 50 per cent. of the reported wind component opposite to the direction of take-off or not less than 150 per cent. of the reported wind component in the direction of take-off,

which is plotted from a point of 50 feet above the end of the take-off distance required at the aerodrome at which the take-off is to be made to the point at which the aeroplane reaches a height of 1,000 feet above the aerodrome, shall show that the aeroplane will clear any obstacle in its path by a vertical interval of not less than 35 feet.

(5) If it is intended that the aeroplane will change its direction of flight by more than 15° before reaching 1,000 feet above the aerodrome the vertical interval referred to in paragraph (4) shall be not less than 50 feet during the change of direction

(6) For the purpose of sub-paragraph (4) an obstacle shall be deemed to be in the path of the aeroplane if the distance from the obstacle to the nearest point on the ground below the intended line of flight of the aeroplane does not exceed 75 metres.

(7) In assessing the ability of the aeroplane to satisfy sub-paragraph (4) it shall not be assumed to make a change of direction of a radius less than the specified radius of steady turn.

(8) Subject to sub-paragraph (9), the aeroplane shall—

(a) at any time after it reaches a height of 1,000 feet above theaerodrome from which the take-off is to be made;

(b) in the meteorological conditions expected for the flight;

(c) in the event of any one power unit becoming inoperative at any point on its route or on any planned diversion from it; and

(d) with the other power unit or power units, if any, operating within the maximum specified continuous power conditions,



be capable of continuing the flight ataltitudes not less than the relevant minimum altitudes for safe flight stated in, or calculated from the information contained in, the operations manual relating to the aeroplane to a point 1,000 feet above a place at which a safe landing can be made.

(9) In assessing the ability of the aeroplane to satisfy sub-paragraph (8) it shall not be assumed to be capable of flying at any point on its route at an altitude exceeding the performance ceiling with all power units operating specified as being appropriate to its estimated weight at that point.

(10) The landing weight of the aeroplane shall not exceed the maximum landingweight specified for the altitude and the expected air temperature for the estimated time of landing at the aerodrome of intended destination and at any alternate aerodrome.

(11) Subject to sub-paragraph (12), the distance required by the aeroplane to land from a height of 50 feet above the threshold of the runway at—

- (a) the aerodrome of intended destination; and
- (b) any alternateaerodrome,

shall not exceed 70 per cent. of the landing distance available on the mostsuitable runway for a landing in still air conditions and 70 per cent. of the landing distance available on the runway that maybe required for landing because of the forecast wind conditions.

(12) For the purposes of sub-paragraph (11) the distance required to land from a height of 50 feet above the threshold of the runway shall be taken to be that specified as being appropriate to—

- (a) the landing weight;
- (b) the altitude at the aerodrome;

(c) the temperature in the specified international standard atmosphere appropriate to the altitude at the aerodrome;

(d) a level surface in the case of runways usable in both directions or the average slope of the runway in the case of runways usable in only one direction; and

(e) still air conditions in the case of the most suitable runway for a landing in still air conditions and not more than 50 per cent. of the forecast wind component opposite to the direction of landing or not less than 150 per cent. of the forecast wind component in the direction of landing in the case of the runway that may be required for the landing because of the forecast wind conditions.

(13) An aeroplane specified by a permission granted under article 44(5) as an aeroplane of performance group Dshall not fly for the purpose of public transport—

(a) at night; or

(b) when the cloud ceiling or visibility prevailing at the aerodrome of departure or forecast for the estimated time of landing at the aerodrome of intended destination or at any alternate aerodrome are less than 1,000 feet and one nautical mile respectively.

Commencement

Sch. 1 para. 3(1)-(13)(b): March 30, 2006

Extent

Sch. 1 para. 3(1)-(13)(b): United Kingdom



Uaw In Force

4.— Weight and performance of public transport aeroplanes specified as aeroplanes of performance group E

(1) For the purposes of article 44(6) and subject to sub-paragraph (11), an aeroplane registered in the United Kingdom, in respect of which there is in force under article 44(5) a permission specifying the aeroplane as being of performance group E, shall not fly for the purpose of public transport unless the weight of the aeroplane at the commencement of the take-off run is such that the requirements of sub-paragraphs (2), (3), (5), (8) and (9) are met.

(2) The weight for the altitude and the air temperature at the aerodrome at which the take-off is to be made shall not exceed the maximum take-off weight specified as being appropriate to—

(a) the weight at which the aeroplane is capable of a rate of climb of 700 feet per minute if it has retractable landing gear and of 500 feet per minute if it has fixed landing gear, in the en route configuration and with all power units operating within the specified maximum continuous power conditions; and

(b) the weight at which the aeroplane is capable, with one power unit inoperative, of a rate of climb of 150 feet per minute in the en route configuration and if it is necessary for it to be flown solely by reference to instruments for any period before reaching the minimum altitude for safe flight on the first stage of the route to be flown, as stated in, or calculated from, the information contained in the operations manual relating to the aeroplane.

(3) Subject to sub-paragraph (4), with all power units operating within the maximum take-off power conditionsspecified and when multiplied by a factor of 1.33 the distance required by the aeroplane to attain a height of 50 feet shall not exceed the accelerate-stop distance available at the aerodrome at which the take-off is to be made.

(4) For the purposes of sub-paragraph (3) the distance required by the aeroplane to attain a height of 50 feet shall be that appropriate to—

- (a) the weight of the aeroplane at the commencement of the take-off run;
- (b) the altitude at the aerodrome;
- (c) the air temperature at the aerodrome; and

(d) not more than 50 per cent. of the reported wind component opposite to the direction of take-off or not less than 150 per cent. of the reported wind component in the direction of take-off.

(5) Subject to sub-paragraphs (6) and (7), the aeroplane shall-

- (a) after the aeroplane reaches a height of 1,000 feet above theaerodrome from which take-off is to be made;
- (b) in the meteorological conditions expected for the flight; and

(c) in the event of any one power unit becoming inoperative at any point on its route or on any planned diversion from such route, and with the other power unit or units, if any, operating within the specified maximum continuous power conditions,

be capable of continuing the flight at altitudes not less than the relevant minimum altitude for safe flight stated in, or calculated from the information contained in, the operations manual relating to the aeroplane to a point 1,000 feet above a place at which a safe landing can be made.

(6) In assessing the ability of the aeroplane to satisfy sub-paragraph (5) it shall not be assumed to be capable of flying at any point on its route, or on any planned diversion from such route, at an altitude exceeding that at which it is capable of a rate of climb, with all power units operating within the maximum continuous power conditions specified, of 150 feet per minute.





(7) For the purposes of sub-paragraph (5) if it is necessary for the aircraft to be flown solely by reference to instruments, it shall be assumed to be capable, with one power unit inoperative, of a rate of climb of 100 feet per minute.

(8) The landing weights of the aeroplane for the altitude and the expected air temperature for the estimated time of landing at the aerodrome of intended destination and at any alternate aerodrome shall not exceed the following maximum landing weights—

(a) those specified at which the aeroplane is capable, in the en route configuration and with all power units operating within the specified maximum continuous power conditions, of a rate of climb of 700 feet per minute if it has retractable landing gear and of 500 feet per minute if it has fixed landing gear; and

(b) those specified at which the aeroplane is capable, in the en route configuration and if it is necessary for it to be flown solely by reference to instruments for any period after leaving the minimum altitude for safe flight on the last stage of the route to be flown, as stated in, or calculated from the information contained in, the operations manual relating to the aeroplane, and with one power unit inoperative, of a rate of climb of 150 feet per minute.

(9) Subject to sub-paragraph (10), the landing distance required shall not exceed 70 per cent. of the landing distance available on the most suitable runway for a landing in still airconditions at the aerodrome of intended destination and at any alternate aerodrome.

(10) For the purposes of sub-paragraph (9) the distance required toland from a height of 50 feet above the threshold of the runway shall be taken to be that specified as beingappropriate to—

- (a) the landing weight;
- (b) the altitude at the aerodrome; and

(c) the temperature in the specified international standard atmosphere appropriate to the altitude at the aerodrome.

(11) An aeroplane specified by a permission granted under article 44(5) as an aeroplane of performance group Eshall not fly for the purpose of public transport—

(a) at night; or

(b) when the cloud ceiling or visibility prevailing at the aerodrome of departure or forecast for the estimated time of landing at the aerodrome of intended destination or at any alternate aerodrome are less than 1,000 feet and one nautical mile respectively,

unless the aeroplane is capable, in the en route configuration and with one power unit inoperative, of a rate of climb of 150 feet per minute.

Commencement

Sch. 1 para. 4(1)-(11)(b): March 30, 2006

Extent

Sch. 1 para. 4(1)-(11)(b): United Kingdom



🝼 Law In Force

5.— Weight and performance of public transport aeroplanes specified as aeroplanes of performance group F

(1) For the purposes of article 44(6) and subject to sub-paragraph (9), an aeroplane registered in the UnitedKingdom in respect of which there is in force a permission granted under article 44(5) specifying the aeroplane as being of performancegroup F, shall not fly for the purpose of public transport unless the weight of theaeroplane at the commencement of the take-off run is such that the requirements of sub-paragraphs (2), (3), (4), (6) and (7) are met.

(2) That weight shall not exceed the maximum take-off weight specified for the altitude and the air temperature at the aerodrome at which the take-off is to be made.

(3) The take-off distance required, specified as being appropriate to—

- (a) the weight of the aeroplane at the commencement of the take-off run;
- (b) the altitude at the aerodrome;
- (c) the air temperature at the aerodrome;

(d) the average slope of the surface of the aerodrome in the direction of take-off over the take-off run available; and

(e) not more than 50 per cent. of the reported wind component opposite to the direction of take-off or not less than 150 per cent. of the reported wind component in the direction of take-off,

shall not exceed the take-off run available at the aerodrome at which the take-off is to be made.

(4) Subject to sub-paragraph (5), the aeroplane shall—

(a) after the aeroplane reaches a height of 1,000 feet above the aerodrome from which take-off is to be made;

(b) in the meteorological conditions expected for the flight; and

(c) in the event of any one power unit becoming inoperative at any point on its route or on any planned diversion from it, and with the other power unit or power units, if any, operating within the specified maximum continuous power conditions,

be capable of continuing the flight ataltitudes not less than the relevant minimum altitude for safe flight stated in, or calculated from the information contained in, the operations manual relating to the aeroplane to a point 1,000 feet above, in the case of an aeroplane having one power unit, a place at which a safe landing can be made and, in the case of an aeroplane having two or more power units, an aerodrome at which it can comply with sub-paragraph (7).

(5) In assessing the ability of the aeroplane to satisfy sub-paragraph (4)—

(a) the aeroplane shall not be assumed to be capable of flying, at any pointon its route or on any planned diversion from it, at an altitude exceeding that at which it is capable of a gradient of climb of 2 per cent, with all power units operating within specified maximum continuous power conditions; and

(b) the aeroplane shall be required to be capable of a gradient of climb of 1 per cent at the relevant minimum safe altitude, with one power unit inoperative and with the other power unit or power units operating within the specified maximum continuous power conditions, over those parts of the route or any planned diversion where, in the meteorological conditions expected for the flight, it is expected that the aeroplane will be out of sight of the surface due to cloud cover at or below the relevant minimum safe altitude.



(6) The landing weight of the aeroplane shall not exceed the maximum landing weight specified for the altitude and the expected air temperature for the estimated time of landing at the aerodrome of intended destination and at any alternate aerodrome.

(7) Subject to sub-paragraph (8), the landing distance required shall not exceed the landingdistance available on the most suitable runway for a landing in still air conditions at the aerodrome of intended destination or at any alternate aerodrome, as the case may be.

(8) For the purposes of sub-paragraph (7) the landing distance required shall be that specified as being appropriate to—

- (a) the landing weight;
- (b) the altitude at the aerodrome;

(c) the temperature in the specified international standard atmosphere appropriate to the altitude at the aerodrome;

- (d) a runway with a level surface; and
- (e) still air conditions.

(9) An aeroplane with one power-unit specified by a permission granted under article 44(5) as an aeroplane of performance group F shall not fly for the purpose of public transport—

(a) at night; or

(b) when the cloud ceiling or visibility prevailing at the aerodrome of departure or forecast for the estimated time of landing at the aerodrome of intended destination or at any alternate aerodrome are less than 1,000 feet and one nautical mile respectively.

Commencement

Sch. 1 para. 5(1)-(9)(b): March 30, 2006

Extent

Sch. 1 para. 5(1)-(9)(b): United Kingdom

Law In Force

6.— Weight and performance of public transport aeroplanes specified as aeroplanes of performance group X

(1) For the purposes of article 44(6), an aeroplane in respect of which there is in force under article 44(5) a permission specifying the aeroplaneas being of performance group X shall not fly for the purpose of publictransport unless the weight of the aeroplane at the commencement of the take-off run is such that the requirements of sub-paragraphs (2), (3), (4), (7), (9), (11), (12), (14) and (15) are met.

(2) That weight shall not exceed the maximum take-off weight specified for the altitude at the aerodrome at which the take-off is to be made, or for the altitude and the air temperature at such aerodrome, as the case may be.

(3) The minimum effective take-off runway length required, specified as being appropriate to-

- (a) the weight of the aeroplane at the commencement of the take-off run;
 - (b) the altitude at the aerodrome;
 - (c) the air temperature at the time of take-off;





(d) the condition of the surface of the runway from which the take-off will be made;

(e) the overall slope of the take-off run available; and

(f) not more than 50 per cent. of the reported wind component opposite to the direction of take-off or not less than 150 per cent. of the reported wind component in the direction of take-off,

shall not exceed the take-off run available at the aerodrome at which the take-off is to be made.

(4) Subject to sub-paragraphs (5) and (6), the take-off flight path with one power unit inoperative, specified as being appropriate to—

- (a) the weight of the aeroplane at the commencement of the take-off run;
- (b) the altitude at the aerodrome; and
- (c) not more than 50 per cent. of the reported wind component opposite to the direction of take-off or not less than 150 per cent. of the reported wind component in the direction of take-off,

which is plotted from a point 50 feet above the end of the specified minimum effective take-off runway length required at the aerodrome at which the take-off is to be made, shall show that the aeroplane will clear any obstacle in its path by a vertical interval of not less than the greater of 50 feet or 35 feet plus one-hundredth of the distance from the point on the ground below the intended line of flight of the aeroplane nearest to the obstacle to the end of the take-off distance available, measured along the intended line of flight of the aeroplane.

(5) For the purpose of sub-paragraph (4) an obstacle shall be deemed to be in the path of the aeroplane if the distance from the obstacle to the nearest point on the ground below the intended line of flight does not exceed—

(a) a distance of 60 metres plus half the wing span of the aeroplane plus one-eighth of the distance from such point to the end of the take-off distance available measured along the intended line of flight; or

(b) 900 metres,

whichever is least.

(6) In assessing the ability of the aeroplane to satisfy sub-paragraph (4), it shall not be assumed to make a change of direction of a radius less than the radius of steady turn corresponding to an angle of bank of 15° .

(7) Subject to sub-paragraph (8), the weight of the aeroplane shall be such that—

- (a) at any point on the route or any planned diversion from the route, having regard to the fuel and oil expected to be consumed up to that point; and
- (b) with one power unit inoperative and the other power unit or units operating within the specified maximum continuous power conditions,

the aeroplane will be capable of a rate of climb of at least K(Vso/100)2 feet per minute at an altitude not less than the minimum altitude for safe flight stated in or calculated from the information contained in the operations manual relating to the aeroplane, where Vso (the power off stalling speed of the aircraft) is in knots and K has the value of 797-1060/N, N being the number of power units installed.

(8) As an alternative to sub-paragraph (7) and subject to sub-paragraph (9), the aeroplane may be flown at an altitude from which, in the event of failure of one power unit, it is capable of reaching an aerodrome where a landing can be made in accordance with sub-paragraph (15).

(9) Subject to sub-paragraph (10), if the aeroplane is flown pursuant to sub-paragraph (8) the weight of the aeroplane shall be such that, with the remaining power unit or units operating within the



specified maximum continuous power conditions, it is capable of maintaining a minimum altitude on the route to such aerodrome of 2,000 feet above all obstacles within 10 nautical miles on either side of the intended track.

(10) If the operator of the aeroplane is satisfied, taking into account the navigation aids which can be made use of by the aeroplane on the route, that the commander of the aeroplane will be able to maintain his intended track on that route within a margin of 5 nautical miles, sub-paragraph (9) shall have effect as if 5 nautical miles were substituted for 10 nautical miles and sub-paragraph (11) shall apply.

(11) If sub-paragraph (10) applies—

(a) the rate of climb, specified for the appropriate weight and altitude, used in calculating the flight path shall be reduced by an amount equal to K(Vso/100)2 feet per minute (Vso being the power off stalling speed of the aircraft);

(b) the aeroplane shall comply with the climb requirements of sub-paragraph (7) at 1,000 feet above the chosen aerodrome;

(c) account shall be taken of the effect of wind and temperature on the flight path; and

(d) the weight of the aeroplane may be assumed to be progressively reduced by normal consumption of fuel and oil.

(12) Subject to sub-paragraph (13), if-

(a) any two power units of an aeroplane having four power units shall become inoperative at any point along the route or along any planned diversion from the route; and

(b) that point is more than 90 minutes flying time (assuming all power units were to be operating) from the nearest aerodrome at which a landing can be made in compliance with sub-paragraph (15), relating to an alternate aerodrome,

the aeroplane shall be capable of continuing the flight at an altitude of not less than 1,000 feet above ground level to a point above that aerodrome.

(13) In assessing the ability of the aeroplane to satisfy sub-paragraph (12) it shall be assumed that the remaining, operative power units will operate within the specified maximum continuous power conditions, and account shall be taken of the temperature and wind conditions expected for the flight.

(14) The landing weight of the aeroplane shall not exceed the maximum landing weight specified for the altitude at the aerodrome of intended destination and at any alternate aerodrome.

(15) Subject to sub-paragraph (16), the required landing runway lengths, respectively specified as being appropriate to—

- (a) the aerodrome of intended destination; and
- (b) the alternate aerodrome,

shall not exceed the landing distances available on the most suitable runway for landing in still air conditions and the landing distances available on the runway that may be required for landing because of the forecast wind conditions at the aerodrome of intended destination or at any alternate aerodrome.

(16) For the purpose of sub-paragraph (15) the required landing runway lengths shall be taken to be those specified as being appropriate to—

- (a) the landing weight;
- (b) the altitude at the aerodrome;



(c) still air conditions in the case of the most suitable runway for a landing in still air conditions; and

(d) not more than 50 per cent. of the forecast wind component opposite to the direction of landing or not less than 150 per cent. of the forecast wind component in the direction of landing in the case of the runway that may be required for landing because of the forecast wind conditions.

Commencement

Sch. 1 para. 6(1)-(16)(d): March 30, 2006

Extent

Sch. 1 para. 6(1)-(16)(d): United Kingdom

🔮 Law In Force

7.— Weight and performance of public transport aeroplanes specified as aeroplanes of performance group Z — aeroplanes of which the specified maximum total weight authorised exceeds 5,700 kg or of which the specified maximum total weight authorised does not exceed 5,700 kg and the wing loading of the aeroplane exceeds 20lb per square foot or the stalling speed of the aeroplane in the landing configuration exceeds 60 knots

(1) For the purposes of article 44(6), an aeroplane registered in the United Kingdom, in respect of which there is in force under article 44(5) a permission specifying the aeroplane as being of performance group Z and which comes within sub-paragraph (2), shall not fly for the purpose of public transport unless the weight of the aeroplane at the commencement of the take-off run is such that the requirements of sub-paragraphs (3), (4), (5), (6), (8), (12), (14), (15), (16), (17), (18) and (19) are met.

(2) An aeroplane comes within this sub-paragraph if—

- (a) its specified maximum total weight authorised exceeds 5,700 kg; or
- (b) its specified maximum total weight authorised does not exceed 5,700 kg; and either-
 - (i) the wing loading of the aeroplane exceeds 20 lb per square foot; or
 - (ii) the stalling speed of the aeroplane in the landing configuration exceeds 60 knots.

(3) One of the following requirements shall be met by the aeroplane-

(a) the wing loading of the aeroplane shall not exceed 20 lb per square foot; or

(b) the stalling speed of the aeroplane in the landing configuration shall not exceed 60 knots; or

(c) the aeroplane shall be capable of a gradient of climb of at least 1 in 200 at an altitude of 5,000 feet in the specified international standard atmosphere, with any one of its power units inoperative and the remaining power unit or units operating within the specified maximum continuous power conditions.

(4) The weight of the aeroplane at the commencement of the take-off run shall not exceed the maximum take-off weight, if any, specified for the altitude and the air temperature at the aerodrome at which the take-off is to be made.



(5) The distance required by the aeroplane to attain a height of 50 feet, with all power units operating within the specified maximum take-off power conditions shall not exceed the take-off run available at the aerodrome at which the take-off is to be made.

(6) The distance required by the aeroplane to attain a height of 50 feet with all power units operating within the specified maximum take-off power conditions, when multiplied by a factor of either 1.33 for aeroplanes having two power units or by a factor of 1.18 for aeroplanes having four power units, shall not exceed the accelerate-stop distance available at the aerodrome at which the take-off is to be made.

(7) For the purposes of sub-paragraphs (5) and (6) the distance required by the aeroplane to attain a height of 50 feet shall be that appropriate to—

- (a) the weight of the aeroplane at the commencement of the take-off run;
- (b) the altitude at the aerodrome;
- (c) the air temperature at the aerodrome;
- (d) the condition of the surface of the runway from which the take-off will be made;

(e) the slope of the surface of the aerodrome in the direction of take-off over the take-off run available and the accelerate-stop distance available, respectively; and

(f) not more than 50 per cent. of the reported wind component opposite to the direction of take-off or not less than 150 per cent. of the reported wind component in the direction of take-off.

(8) Subject to sub-paragraphs (9), (10) and (11), the take-off flight path of the aeroplane shall show that—

(a) with one power unit inoperative and the remaining power unit or units operating within the specified maximum take-off power conditions referred to in sub-paragraph (9); and

(b) with the take off path plotted from a point 50 feet above the end of the appropriate factored distance required for take-off under sub-paragraph (6) at the aerodrome at which the take-off is to be made,

the aeroplane will clear any obstacle in its path by a vertical interval of at least 35 feet except that if it is intended that an aeroplane shall change its direction by more than 15° the vertical interval shall be not less than 50 feet during the change of direction.

(9) The specified maximum take-off power conditions referred to in sub-paragraph (8)(a) are those appropriate to—

- (a) the weight of the aeroplane at the commencement of the take-off run;
- (b) the altitude at the aerodrome;
- (c) the air temperature at the aerodrome; and

(d) not more than 50 per cent. of the reported wind component opposite to the direction of take-off or not less than 150 per cent. of the reported wind component in the direction of take-off.

(10) For the purpose of sub-paragraph (8) an obstacle shall be deemed to be in the path of the aeroplane if the distance from the obstacle to the nearest point on the ground below the intended line of flight does not exceed—

(a) a distance of 60 metres plus half the wing span of the aeroplane, plus one-eighth of the distance from such point to the end of the take-off distance available, measured along the intended line of flight; or

(b) 900 metres,

whichever is least.



(11) In assessing the ability of the aeroplane to satisfy sub-paragraph (8), it shall not be assumed the aeroplane will make a change of direction of a radius less than a radius of steady turn corresponding to an angle of bank of 15° .

(12) Subject to sub-paragraph (13), the aeroplane shall—

(a) in the meteorological conditions expected for the flight;

(b) in the event of any one power unit becoming inoperative at any point on its route or on any planned diversion from it; and

(c) with the other power unit or units, if any, operating within the specified maximum continuous power conditions,

be capable of continuing the flight, clearing obstacles within 10 nautical miles either side of the intended track, by a vertical interval of at least 1,000 feet when the gradient of the flight path is not less than zero, or 2,000 feet when the gradient of the flight path is less than zero, to an aerodrome at which it can comply with sub-paragraph (17), and on arrival over such aerodrome the flight path shall be capable of having a gradient of not less than zero at 1,500 feet above the aerodrome.

(13) For the purpose of sub-paragraph (12) the gradient of climb of the aeroplane shall be taken to be one per cent. less than that specified.

(14) In the meteorological conditions expected for the flight and at any point on its route or on any planned diversion from it the aeroplane shall be capable of climbing at a gradient of at least 1 in 50, with all power units operating within the maximum continuous power conditions specified at the following altitudes—

(a) the minimum altitudes for safe flight on each stage of the route to be flown or of any planned diversion from it specified in, or calculated from the information contained in, the operations manual relating to the aeroplane; and

(b) the minimum altitudes necessary for compliance with sub-paragraphs (12) and (15), as appropriate.

(15) If, on the route to be flown or on any planned diversion from it—

(a) the aeroplane will be engaged in a flight over water;

(b) the aeroplane may, at any point during such flight, be more than 90 minutes flying time in still air from the nearest shore; and

(c) two power units become inoperative during such time and with the other power units,

if any, operating within the specified maximum continuous power conditions,

the aeroplane shall be capable of continuing the flight, having regard to the meteorological conditions expected for the flight, clearing all obstacles within 10 nautical miles either side of the intended track by a vertical interval of at least 1,000 feet and reaching an aerodrome at which a safe landing can be made.

(16) The landing weight of the aeroplane shall not exceed the maximum landing weight, if any, specified for the altitude and the expected air temperature for the estimated time of landing at the aerodrome of intended destination and at any alternate aerodrome.

(17) Subject to sub-paragraph (18), the distance required by the aeroplane to land at the aerodrome of intended destination from a height of 50 feet above the threshold of the runway shall not exceed 60 per cent. of the landing distance available on—

- (a) the most suitable runway for a landing in still air conditions; and
- (b) the runway that may be required for landing because of the forecast wind conditions.



(18) If an alternate aerodrome is designated in the flight plan, the landing distance required under sub-paragraph (17) at the aerodrome of intended destination shall not exceed 70 per cent. of that available on the relevant runway.

(19) The distance required by the aeroplane to land from a height of 50 feet above the threshold of the runway at any alternate aerodrome shall not exceed 70 per cent. of the landing distance available on—

- (a) the most suitable runway for a landing in still air conditions; and
- (b) the runway that may be required for landing because of the forecast wind conditions.

(20) For the purpose of sub-paragraphs (17) and (19) the distance required to land from a height of 50 feet above the threshold of the runway shall be taken to be that appropriate to—

- (a) the landing weight;
- (b) the altitude at the aerodrome;

(c) the temperature in the specified international standard atmosphere appropriate to the altitude at the aerodrome;

- (d) a level surface in the case of runways usable in both directions;
- (e) the average slope of the runway in the case of runways usable in only one direction;

(f) still air conditions in the case of the most suitable runway for a landing in still air conditions; and

(g) not more than 50 per cent. of the forecast wind component opposite to the direction of landing or not less than 150 per cent. of the forecast wind component in the direction of landing in the case of the runway that may be required for landing because of the forecast wind conditions.

Commencement

Sch. 1 para. 7(1)-(20)(g): March 30, 2006

Extent

Sch. 1 para. 7(1)-(20)(g): United Kingdom

V Law In Force

8.— Weight and performance of public transport aeroplanes specified as aeroplanes of performance group Z — of which the specified maximum total weight authorised does not exceed 5,700 kg and the wing loading of the aeroplane does not exceed 20lb per square foot or the stalling speed of the aeroplane in the landing configuration does not exceed 60 knots (or both)

(1) For the purposes of article 44(6), an aeroplane registered in the United Kingdom, in respect of which there is in force under article 44(5) a permission specifying the aeroplane as being of performance group Z and which comes within sub-paragraph (2), shall not fly for the purpose of public transport unless the weight of the aeroplane at the commencement of the take-off run is such that the requirements of sub-paragraphs (3), (4), (5), (6), (7), (9), (11), (12), (14), (15) and (16) are met.

(2) An aeroplane comes within this sub-paragraph if its specified maximum total weight authorised does not exceed 5,700 kg and either—



- (a) the wing loading of the aeroplane does not exceed 20 lb per square foot; or
- (b) the stalling speed of the aeroplane in the landing configuration does not exceed 60 knots (or both).

(3) One of the following requirements shall be met by the aeroplane-

(a) the wing loading of the aeroplane shall not exceed 20 lb per square foot; or

(b) the stalling speed of the aeroplane in the landing configuration shall not exceed 60 knots; or

(c) the aeroplane shall be capable of a gradient of climb of at least 1 in 200 at an altitude of 5,000 feet in the specified international standard atmosphere, with any one of its power units inoperative and the remaining power unit or units operating within the specified maximum continuous power conditions.

(4) The weight of the aeroplane at the commencement of the take-off run shall not exceed the maximum take-off weight, if any, specified for the altitude and the air temperature at the aerodrome at which the take-off is to be made.

(5) If the aeroplane is engaged—

(a) on a flight at night; or

(b) when the cloud ceiling or visibility prevailing at the aerodrome of departure or forecast for the estimated time of landing at the aerodrome of intended destination or at any alternate aerodrome are less than 1,000 feet and one nautical mile respectively,

it shall be capable of climbing at a gradient of at least 1 in 200 at an altitude of 2,500 feet in the specified international standard atmosphere with any one of its power units inoperative and with the remaining power unit or units, if any, operating within the specified maximum continuous power conditions.

(6) The distance required by the aeroplane to attain a height of 50 feet, with all power units operating within the specified maximum take-off power conditions, shall not exceed the take-off run available at the aerodrome at which the take-off is to be made.

(7) The distance required by the aeroplane to attain a height of 50 feet, with all power units operating within the specified maximum take-off power conditions, when multiplied by a factor of 1.33, shall not exceed the accelerate-stop distance available at the aerodrome at which the take-off is to be made.

(8) For the purposes of sub-paragraphs (6) and (7) the distance required by the aeroplane to attain a height of 50 feet shall be that appropriate to—

- (a) the weight of the aeroplane at the commencement of the take-off run;
- (b) the altitude at the aerodrome;

(c) the temperature in the specified international standard atmosphere appropriate to the altitude at the aerodrome or, if greater, the air temperature at the aerodrome less 15° centigrade;

(d) the slope of the surface of the aerodrome in the direction of take-off over the take-off run available and the accelerate-stop distance available respectively; and

(e) not more than 50 per cent. of the reported wind component opposite to the direction of take-off or not less than 150 per cent. of the reported wind component in the direction of take-off.

(9) Subject to sub-paragraph (10), the take-off flight path of the aeroplane, with all power units operating within the specified maximum take-off power conditions, appropriate to—



(a) the weight of the aeroplane at the commencement of the take-off run;

(b) the altitude at the aerodrome;

(c) the temperature in the specified international standard atmosphere appropriate to the altitude at the aerodrome, or, if greater, the air temperature at the aerodrome less 15° centigrade;

(d) not more than 50 per cent. of the reported wind component opposite to the direction of take-off or not less than 150 per cent. of the reported wind component in the direction of take-off; and

(e) plotted from a point 50 feet above the end of the factored distance required for take-off under sub-paragraph (8), at the aerodrome at which the take-off is to be made,

shall show that the aeroplane will clear any obstacle lying within 60 metres plus half the wing span of the aeroplane on either side of its path by a vertical interval of at least 35 feet.

(10) In assessing the ability of the aeroplane to satisfy sub-paragraph (9) it shall not be assumed to make a change of direction of a radius less than a radius of steady turn corresponding to an angle of bank of 15° .

(11) The aeroplane shall be capable of continuing the flight so as to reach a point above a place at which a safe landing can be made at a suitable height for such landing—

(a) in the meteorological conditions expected for the flight;

(b) in the event of any power unit becoming inoperative at any point on its route or on any planned diversion from it; and

(c) with the other power unit or units, if any, operating within the specified maximum continuous power conditions.

(12) The aeroplane shall be capable of climbing at a gradient of at least 1 in 50, with all power units operating within the specified maximum continuous power conditions at the altitudes referred to in paragraph (13), in the meteorological conditions expected for the flight and at any point on its route or on any planned diversion.

(13) For the purpose of paragraph (12) the altitudes are—

(a) the minimum altitudes for safe flight on each stage of the route to be flown or on any planned diversion from it specified in, or calculated from, the information contained in the operations manual relating to the aeroplane; and

(b) the minimum altitudes necessary for compliance with paragraph (11).

(14) If on the route to be flown or any planned diversion from it the aeroplane will-

(a) be engaged on a flight over water;

(b) during which, at any point, it may be more than 30 minutes flying time in still air from the nearest shore; and

(c) in the event of one power unit becoming inoperative during such time and with the other power unit or units, if any, operating within the specified maximum continuous power conditions,

the aeroplane shall be capable of climbing at a gradient of at least 1 in 200 at an altitude of 5,000 feet in the specified international standard atmosphere.

(15) The landing weight of the aeroplane shall not exceed the maximum landing weight, if any, specified for the altitude and the expected air temperature for the estimated time of landing at the aerodrome of intended destination and at any alternate aerodrome.



(16) The distance required by the aeroplane to land at the aerodrome of intended destination and at any alternate aerodrome from a height of 50 feet above the threshold of the runway shall not exceed 70 per cent. or, if a visual approach and landing will be possible in the meteorological conditions forecast for the estimated time of landing, 80 per cent. of the landing distance available on—

- (a) the most suitable runway for a landing in still air conditions; and
- (b) the runway that may be required for landing because of the forecast wind conditions.

(17) For the purposes of sub-paragraph (16) the distance required to land from a height of 50 feet above the threshold of the runway shall be taken to be that appropriate to—

- (a) the landing weight;
- (b) the altitude at the aerodrome;

(c) the temperature in the specified international standard atmosphere appropriate to the altitude at the aerodrome;

(d) a level surface in the case of runways usable in both directions or the average slope of the runway in the case of runways usable in only one direction; and either

(e) still air conditions in the case of the most suitable runway for alanding in still air conditions; or

(f) not more than 50 per cent. of the forecast wind component opposite to the direction of landing or not less than 150 per cent. of the forecast wind component in the direction of landing in the case of the runway that may be required for landing because of the forecast wind conditions.

Commencement

Sch. 1 para. 8(1)-(17)(f): March 30, 2006

Extent

Sch. 1 para. 8(1)-(17)(f): United Kingdom

SCHEDULE 2

HELICOPTER PERFORMANCE

Regulation 9

Law In Force

1. Weight and performance of public transport helicopters carrying out Performance Class **1** operations

For the purposes of article 45(1), a helicopter registered in the United Kingdom when carrying out Performance Class 1 operations shall not fly for the purpose of public transport unless the weight of the helicopter at the commencement of take-off is such that the following requirements are met—

(a) the weight does not exceed the maximum take-off weight specified for the altitude and

the air temperature at the site from which the take-off is to be made; and





(b) the landing weight of the helicopter will not exceed the maximum landing weight specified for the altitude and the expected air temperature for the estimated time of landing at the site of intended destination and at any alternate site.

Commencement

Sch. 2 para. 1(a)-(b): March 30, 2006

Extent

Sch. 2 para. 1(a)-(b): United Kingdom

🔮 Law In Force

2.— Weight and performance of public transport helicopters carrying out Performance Class 2 operations

(1) For the purposes of article 45(1) but subject to sub-paragraph (3), a helicopter registered in the United Kingdom when carrying out Performance Class 2 operations shall not fly for the purposes of public transport if the cloud ceiling or visibility prevailing at the departure site and forecast for the estimated time of landing at the site of intended destination and at any alternate site are less than 500 feet and 1,000 metres respectively and shall not fly for the purpose of public transport at any other time unless all of the requirements referred to in sub-paragraph (2) are met.

(2) The requirements referred to in sub-paragraph (1) are that the weight of the helicopter at the commencement of take-off shall be such that—

(a) the weight does not exceed the maximum take-off weight specified for the altitude and the air temperature at the site from which the take-off is to be made; and

(b) the landing weight of the helicopter will not exceed the maximum landing weight specified for the altitude and the expected air temperature for the estimated time of landing at the site at which it is intended to land and at any alternate site.

(3) This paragraph shall not apply to a helicopter flying under and in accordance with the terms of a police air operator's certificate.

Commencement

Sch. 2 para. 2(1)-(3): March 30, 2006

Extent

Sch. 2 para. 2(1)-(3): United Kingdom

ダ Law In Force

3.— Weight and performance of public transport helicopters carrying out Performance Class 3 operations

(1) For the purposes of article 45(1) but subject to sub-paragraph (3), a helicopter registered in the United Kingdom when carrying out Performance Class 3 operations shall not fly for the purposes



of public transport at night or out of sight of the surface or when the cloud ceiling or visibility prevailing at the departure site and forecast for the estimated time of landing at the site of intended destination are less than 600 feet and 1,000 metres respectively and shall not fly for the purpose of public transport at any other time unless all of the requirements referred to in sub-paragraph (2) are met.

(2) The requirements referred to in sub-paragraph (1) are that the weight of the helicopter at the commencement of take-off shall be such that—

(a) the weight does not exceed the maximum take-off weight specified for the altitude and the air temperature at the site from which the take-off is to be made; and

(b) the landing weight of the helicopter will not exceed the maximum landing weight specified for the altitude and the expected air temperature for the estimated time of landing at the site of intended destination and at any alternate site.

(3) This paragraph shall not apply to a helicopter flying under and in accordance with the terms of a police air operator's certificate.

Commencement

Sch. 2 para. 3(1)-(3): March 30, 2006

Extent

Sch. 2 para. 3(1)-(3): United Kingdom

EXPLANATORY NOTE

(This note is not part of the Regulations)

These Regulations revoke and replace the Air Navigation (General) Regulations 2005 (S.I. 2005/1980).

They have been made principally to rectify defective drafting in those Regulations.

The principal changes made in these Regulations, when compared with the Air Navigation (General) Regulations 2005, are as follows—

(1) The enabling powers in the Air Navigation Order 2005 recited in the preamble are corrected.

(2) Regulation 4 (load sheets particulars and weighing requirements) of the Air Navigation (General) Regulations 2005 has been divided into four regulations: particulars of load sheets; weighing requirements — passengers, crew and hand baggage; weighing requirements — hold baggage; and load sheets — additional provisions. (Regulations 4, 5, 6 and 7)



(3) The reference in regulation 10(3) (previously regulation 7(3) of the Air Navigation (General) Regulations 2005) to the flight manual or performance schedule, in relation to the definition of "specified", has been simplified.

(4) Regulation 13 of the Air Navigation (General) Regulations 2005 has been divided into two regulations: Minimum Navigation Performance and Height Keeping Specifications; and North Atlantic Minimum Navigation Performance Specification Airspace. (Regulations 16 and 17)

(5) References in Schedule 2 and 3 of the Air Navigation (General) Regulations 2005 to "aerodrome at which it is intended to land" have, for consistency, been replaced by "aerodrome of intended destination" in Schedules 1 and 2.

(6) Schedules 2 and 3 of the Air Navigation (General) Regulations 2005 are now Schedules 1 and 2 respectively of these Regulations.

(7) Paragraph 7 of Schedule 2 of the Air Navigation (General) Regulations 2005 has been divided into two separate paragraphs: "aeroplanes of which the specified maximum total weight authorised exceeds 5,700 kg or of which the specified maximum total weight authorised does not exceed 5,700 kg and the wing loading of the aeroplane exceeds 20lb per square foot or the stalling speed of the aeroplane in the landing configuration exceeds 60 knots"; and "aeroplanes of which the specified maximum total weight authorised does not exceed 5,700 kg and the wing loading of the aeroplane does not exceed 5,700 kg and the wing loading of the aeroplane does not exceed 5,700 kg and the wing loading of the aeroplane configuration exceed 5,700 kg and the wing loading of the aeroplane does not exceed 20lb per square foot or the stalling speed of the aeroplane in the landing configuration does not exceed 60 knots". (Paragraphs 7 and 8 of Schedule 1)

Copies of Document 7030/4-NAT Part 1, Rules of the Air, Air Traffic Services and Search and Rescue (ICAO Regional Procedures, Fourth Edition — 1987) can be obtained from The Stationery Office at <u>www.tso.co.uk</u> and Annex 10 to the Chicago Convention can be obtained from Airplan Flight Equipment Limited at <u>www.afeonline.com</u> or from ICAO.



Table of Contents

Air Navigation (General) Regulations 2006/601 <u>1</u>
Preamble <u>1</u>
Part 1 General
\checkmark reg. 1 Citation and commencement <u>1</u>
✓ reg. 2 Revocation
✓ reg. 3 Interpretation
Part 2 Load Sheets and Weighing Requirements2
\bigcirc reg. 4 Particulars of load sheet <u>2</u>
\checkmark reg. 5 Weighing requirements-passengers, crew and hand baggage
\checkmark reg. 6 Weighing requirements-hold baggage and cargo
\bigcirc reg. 7 Loading-additional provisions <u>6</u>
Part 3 Aircraft Performance <u>6</u>
\bigcirc reg. 8 Aeroplanes to which article 44(5) applies
\bigcirc reg. 9 Helicopters to which article 45(1) applies
\bigcirc reg. 10 Weight and performance-general provisions
Part 4 Noise and vibration, maintenance and aerodrome facilities
\bigcirc reg. 11 Noise and vibration caused by aircraft on aerodromes
\bigcirc reg. 12 Pilots maintenance-prescribed repairs or replacements
reg. 13 Aeroplanes flying for the purpose of public transport of passengers-aerodrome facilities for approach to landing and landing
Part 5 Mandatory Reporting <u>11</u>
reg. 14 Reportable occurrences - time and manner of reporting and information to be reported
reg. 15 Mandatory reporting of birdstrikes - time and manner of reporting and information to be reported
Part 6 Navigation performance and equipment <u>13</u>
\bigcirc reg. 16 Minimum navigation performance and height keeping specifications <u>14</u>
\bigcirc reg. 17 North Atlantic Minimum Navigation Performance Specification Airspace <u>14</u>
reg. 18 Airborne Collision Avoidance System.
✓ reg. 19 Mode S Transponder
✓ Signatures
Schedule 1 AEROPLANE PERFORMANCE <u>16</u>
para. 1 Weight and performance of public transport aeroplanes specified as aeroplanes of performance group A or performance group B
In para. 2 Weight and performance of public transport aeroplanes specified as aeroplanes of performance group C
para. 3 Weight and performance of public transport aeroplanes specified as aeroplanes of performance group D.



SI 2006/601

In the para of para of the
 performance group E
In para. 6 Weight and performance of public transport aeroplanes specified as aeroplanes of performance group X
para. 7 Weight and performance of public transport aeroplanes specified as aeroplanes of performance group Z - aeroplanes of which the specified maximum total weight authorised exceeds 5,700 kg or of which th
Image: Paral 8 Weight and performance of public transport aeroplanes specified as aeroplanes of performance group Z - of which the specified maximum total weight authorised does not
exceed 5,700 kg and the wing load
Schedule 2 HELICOPTER PERFORMANCE
Schedule 2 HELICOPTER PERFORMANCE
 Schedule 2 HELICOPTER PERFORMANCE
 Schedule 2 HELICOPTER PERFORMANCE. 2 para. 1 Weight and performance of public transport helicopters carrying out Performance Class 1 operations. 2 Weight and performance of public transport helicopters carrying out Performance Class 2 operations. 2 para. 3 Weight and performance of public transport helicopters carrying out Performance
 Schedule 2 HELICOPTER PERFORMANCE. 28 29 para. 1 Weight and performance of public transport helicopters carrying out Performance Class 1 operations. 28 29 para. 2 Weight and performance of public transport helicopters carrying out Performance Class 2 operations. 29 20 para. 3 Weight and performance of public transport helicopters carrying out Performance Class 3 operations. 39 30 30

