SCHEDULE 5

Article 20(2)

RADIO COMMUNICATION AND RADIO NAVIGATION EQUIPMENT TO BE CARRIED IN AIRCRAFT

1. Subject to paragraph 3, every aircraft shall be provided, when flying in the circumstances specified in the first column of the Table in paragraph 2 of this Schedule, with the scales of equipment respectively indicated in the second column of that Table; provided that, if the aircraft is flying in a combination of such circumstances the scales of equipment shall not on that account be required to be duplicated.

2. Table

Aircraft S and Circumstan of Flight	Scale of Equip nces	oment Requ	uired					
A	В	С	D	Е	F	G	Н	J
(1)All aircraft (other than gliders) within the United Kingdom—	-							
u It F R w co	(a) ying nder hstrument light ules vithin ontrolled irspace			E1	F			
W CO	(b) ying vithin ontrolled irspace							
an aj to la at at	naking n pproach nding t					G		

1

Aircraft	Scale of Equipment	Required			
and Circums		ncyuncu			
of	unces				
Flight					
	notified				
	for				
	the				
	purpose of				
	this				
	sub-				
	paragraph				
w(bl)	n (d)		E1		
	flying for				
	the				
	purpose				
	of				
	public transport				
(2) 4 11	transport				
(2)All aircraft					
within					
the					
United	_				
Kingdom					
w(he)	nA (a)				
	flying at				
	or				
	above				
	flight level				
	245				
whè	nA (b)				
W(Dy.	flying				
	within				
	airspace				
	notified for				
	the				
	purposes				
	of this				
	sub				
	paragraph				
(3)All					
aircraft					
(other					

Status: This is the original version (as it was originally made).

Aircraft Scale of Equipment Required and Circumstances of Elight			
Flight			
than gliders) within the United Kingdom—			
w(h) (a) flying at or above flight level 245	E1	F	
v(b) (b) flying within airspace notified for the purposes of this sub- paragraph	E1		
w(kg)n (c) flying at or above flight level 100	E1		
When flying under Instrument Flight Rules within airspace notified for the purposes			

Status: This is the original version (as it was originally made).

Aircraft Scale of Equipment Required and Circumstances of Flight		
of this		
paragraph—		
(a)ll (a) aeroplanes having a maximum take- off weight authorised not exceeding 5,700 kg and a maximum cruising true airspeed capability not exceeding 250	E2	
knots	EO	
(bàll (b) rotorcraft	E2	
(càll (c) aeroplanes having either a maximum take- off weight authorised of more than 5,700 kg or a	E3	

Status: This is the original version (as it was originally made).

1:	1 <u>.</u> .				 	
Aircraft Sca and Circumstance of Flight		ent Require	ed			
crui	sing				 	
true airsj	beed Ibility e					
(dall (d airci requ to carr Scal E2 or E3	raft ired y			EE		
(5)All aircraft registered in the United Kingdom, wherever they may be—						
und	ng pose lic sport er rument ht					
(i) whil A making an approacl	1	С	D		Н	

Aircraft Scale of Equi and Circumstances of Flight	pmeni requireu		
to landing			
(ii) on A all other occasions	С		Н
w(b) (b) flying for the purpose of public transport		E1	
m(d)i-A (c) engined aircraft when flying for the purpose of public transport under Visual Flight Rules			Η
sin gl e- (d) engined aircraft when flying for the purpose of public transport under Visual Flight Rules—			

Aircraft Scale of Equipment Required	
and	
Circumstances	
of	
Flight	
(v)erA (i) B	
a	
route	
on	
which navigation	
is	
effected	
solely	
by	
visual	
reference	
to landmarks	
(ii)nA (ii)	
all other	
occasions	
v(b) nA (e)	
flying under	
Instrument	
Flight	
Rules	
within	
controlled	
airspace and	
not	
required	
to	
comply	
with	
(5)paragraph (a)	
above	
	J
(6)All aeroplanes	5
registered	
in the	
United	
Kingdom,	
wherever	
they may be,	
and all	

Aircraft Scale of Equipment Required
and
Circumstances
of Flight
aeroplanes
wherever
registered
when
flying in
the
United
Kingdom,
powered
by one
or more turbine
jets or
turbine
propeller
engines
and
either
having a
maximum
take-off
weight
exceeding 15,000
kg or
with a
maximum
approved
passenger
seating
configuration
of more than 30
(7)All
aeroplanes
powered
by one or more
turbine
jets or
turbine
propeller
engines
and
either
having a
maximum

Aircraft Scale of Equipment Required		
and		
Circumstances		
of The L		
Flight		
take-off		
weight		
exceeding		
5,700		
kg or a		
maximum		
approved		
passenger		
seating		
configuration		
of more than 10:		
than 19;		
and—		
registered (a)	J	
in		
the		
United		
Kingdom		
and		
flying		
for		
the		
purpose		
of		
public		
transport;		
or		
registered (b)	J	
in		
the		
United		
Kingdom		
and		
flying		
within		
the		
airspace		
of		
the		
member		
states		
of		
the		
European		
Civil		
Aviation		

Aircraft Scale of Equipment Required	
and	
Circumstances	
of	
Flight	
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flýci)g (c)	J
in	
the	
United	
Kingdom	

3.—(1) In the case of sub-paragraphs (1), (2), (3), (4)(a), (4)(c) and (5)(e) of paragraph 2, the specified equipment need not be carried if the appropriate air traffic control unit otherwise permits in relation to the particular flight and the aircraft complies with any instructions which the air traffic control unit may give in the particular case.

(2) An aircraft which is not a public transport aircraft and which is flying in Class D or Class E airspace shall not be required to be provided with distance measuring equipment in accordance with paragraph (b) of Scale F when flying in the circumstances specified in sub-paragraph (1)(a) of paragraph 2.

4. The scales of radio communication and radio navigation equipment indicated in the foregoing Table shall be as follows—

Scale A

Radio communication equipment capable of maintaining direct two-way communication with the appropriate aeronautical radio stations.

Scale B

Radio navigation equipment capable of enabling the aircraft to be navigated on the intended route including such equipment as may be prescribed.

Scale C

Radio communication equipment capable of receiving from the appropriate aeronautical radio stations meteorological broadcasts relevant to the intended flight.

Scale D

Radio navigation equipment capable of receiving signals from one or more aeronautical radio stations on the surface to enable the aircraft to be guided to a point from which a visual landing can be made at the aerodrome at which the aircraft is to land.

Scale E1

Secondary surveillance radar equipment which includes a pressure altitude reporting transponder capable of operating in Mode A and Mode C and is capable of being operated in accordance with such instructions as may be given to the aircraft by the air traffic control unit.

Scale E2

Secondary surveillance radar equipment which includes a pressure altitude reporting transponder capable of operating in Mode A and Mode C and has the capability and functionality prescribed for Mode S Elementary Surveillance and is capable of being operated in accordance with such instructions as may be given to the aircraft by the air traffic control unit.

Scale E3

Secondary surveillance radar equipment which includes a pressure altitude reporting transponder capable of operating in Mode A and Mode C and has the capability and functionality prescribed for Mode S Enhanced Surveillance and is capable of being operated in accordance with such instructions as may be given to the aircraft by the air traffic control unit.

Scale EE

The aircraft shall, in the circumstances specified in paragraph 2.1.5.3 of Volume IV (Third Edition July 2002) of Annex 10 to the Chicago Convention, comply with the requirements for antenna diversity set out in that paragraph.

Scale F

Radio communication and radio navigation equipment capable of enabling the aircraft to be navigated along the intended route including—

- (a) automatic direction finding equipment;
- (b) distance measuring equipment; and
- (c) VHF omni-range equipment.

Scale G

Radio navigation equipment capable of enabling the aircraft to make an approach to landing using the Instrument Landing System.

Scale H

(1) Subject to paragraphs (2) and (3), radio navigation equipment capable of enabling the aircraft to be navigated on the intended route including—

- (a) automatic direction finding equipment;
- (b) distance measuring equipment;
- (c) duplicated VHF omni-range equipment; and
- (d) a 75 MHz marker beacon receiver.

(2) An aircraft may fly notwithstanding that it does not carry the equipment specified in this Scale if it carries alternative radio navigation equipment or navigational equipment approved in accordance with article 19(9).

(3) Where not more than one item of equipment specified in this Scale is unserviceable when the aircraft is about to begin a flight, the aircraft may nevertheless take off on that flight if—

- (a) it is not reasonably practicable for the repair or replacement of that item to be carried out before the beginning of the flight;
- (b) the aircraft has not made more than one flight since the item was last serviceable; and

(c) the commander of the aircraft has satisfied himself that, taking into account the latest information available as to the route and aerodrome to be used (including any planned diversion) and the weather conditions likely to be encountered, the flight can be made safely and in accordance with any relevant requirements of the appropriate air traffic control unit.

Scale J

An airborne collision avoidance system.

5. In this Schedule—

(1) "Airborne collision avoidance system" means an aeroplane system which conforms to requirements prescribed for the purpose; is based on secondary surveillance radar transponder signals; operates independently of ground based equipment and which is designed to provide advice and appropriate avoidance manoeuvres to the pilot in relation to other aeroplanes which are equipped with secondary surveillance radar and are in undue proximity;

(2) "Automatic direction finding equipment" means radio navigation equipment which automatically indicates the bearing of any radio station transmitting the signals received by such equipment;

(3) "Distance measuring equipment" means radio equipment capable of providing a continuous indication of the aircraft's distance from the appropriate aeronautical radio stations;

(4) "Mode A" means replying to an interrogation from secondary surveillance radar units on the surface to elicit transponder replies for identity and surveillance with identity provided in the form of a 4 digit identity code;

(5) "Mode C" means replying to an interrogation from secondary surveillance radar units on the surface to elicit transponder replies for automatic pressure-altitude transmission and surveillance;

(6) "Secondary surveillance radar equipment" means such type of radio equipment as may be notified as being capable of—

- (a) replying to an interrogation from secondary surveillance radar units on the surface; and
- (b) being operated in accordance with such instructions as may be given to the aircraft by the appropriate air traffic control unit;

(7) "VHF omni-range equipment" means radio navigation equipment capable of giving visual indications of bearings of the aircraft by means of signals received from very high frequency omnidirectional radio ranges.