UNITED KINGDOM
CIVIL AVIATION AUTHORITY

FA19
Issue 4
November 2004
McDONNELL DOUGLAS
DC9 Series 10 - Models DC-9-14, -15
DC9 Series 30 - Model DC-9-32
DC9 Series MD80 - Model DC-9-83 (MD83)

TYPE CERTIFICATE DATA SHEET No. FA19

This data sheet which is part of CAA Type Certificate No. FA19 prescribes conditions and limitations under which the product, for which the type certificate was issued, meets the airworthiness requirements of the Civil Aviation Authority.

TYPE CERTIFICATE HOLDER:
McDonnell Douglas Corporation
3855 Lakewood Boulevard
Long Beach
California 90846-0001
United States of America

MANUFACTURER:
McDonnell Douglas Corporation
3855 Lakewood Boulevard
Long Beach
California 90846-0001
United States of America

AIRCRAFT TYPE/
MODEL NUMBER(S):
DC9 Series 10, DC9 Series 30, DC9 Series MD-80,
DC-9-14, -15, DC9-32, DC-9-83 (MD83)

TYPE DESIGN DEFINITION:

DC-9-14	DS3500
DC-9-15	DS3550
DC-9-32	DS3800
DC-9-83 (MD-83)	DS8000G

CERTIFICATION BASIS:

The following requirements were the basis of certification of the type design:

Models DC-9-14, -15, -32

CAR 4b dated 31 December 1953, Amendments 4b-1 through 4b-16, the special conditions contained in Attachment 'A' of FAA letter to Douglas dated 20 October 1965, the provisions of SR-422B and the following exceptions:

415C - CAR 4b.437 'Fuel Jettisoning System'
424 - CAR 4b.362 'Emergency Exit/Passenger Ratio'

UK Additional Requirements for the DC9 Series 10 and 30.

Model DC-9-83 (MD83)

FAR 25, effective 1 February 1965 as amended by amendments 25-1 through 25-40, effective 2 May 1977, except for the following sections which are limited to showing compliance with the amendments indicated:

Section	Amendment	Section	Amendment	Section	Amendment
25.21	25-7	25.697	*	25.933	*
25.251(a)	25-23	25.699	*	25.951	*
25.251(b)	25-23	25.701	*	25.955	*
25.251(c)	25-23	25.721	25-15	25.979	*
25.251(e)	25-23	25.785	25-51	25.1001	*
25.255	25-42	25.787	*	25.1093	25-36
25.395	*	25.803(c)	25-46	25.1203	*
25.571	25-10	25.803(e)	25-15	25.1305	25-11
25.607	*	25.807	25-15	25.1309	*, **
25.631	(N/A)	25.809	25-15	25.1333	*
25.671	*	25.811	25-15	25.1351(d)	**
25.672	(N/A)	25.812	25-28	25.1435	*
25.695	*	25.863	*		

(N/A) indicates sections added to FAR 25 by later amendments for which compliance is not applicable.

* as adopted at original issuance of FAR 25.

** through Amendment 25-41 for operation without normal electrical power, autoland system and post stall recovery (stick pusher) system.

Special Condition No. 25-88-WE-25 — Automatic Take-off Thrust Control System

Special Condition No. 25-95-WE-27 — Hydraulic System Failure
In Flight Thrust Reversal
Environmental Flight Testing

Exemption No. 415D, FAR 25.1001 — Fuel Jettisoning System

UK Additional Requirements for the Douglas MD-80 Series

CERTIFICATION CATEGORY: UK Transport Category (Passenger)

PERFORMANCE CATEGORY: UK Group A

FLIGHT MANUAL:
The limitations, recommended procedures and information required are contained in the following FAA approved airplane Flight Manual which include CAA approved changes to conform with UK requirements.

Model	FAA ARM Report No.	CAA FM Designation No.
DC-9-14, -15	LB - 32999	TP B21
DC-9-32	DAC - 33530	TP 8403
DC-9-83 (MD83)	MDC - J4923	MDC-J4923

ENGINE:

DC-9-14, -15	Two Pratt and Whitney JT8D-7 engines One AiResearch GTC P85-98D auxiliary power unit.
DC-9-32	Two Pratt and Whitney JT8D-9 engines One AiResearch GTC P85-98D auxiliary power unit
DC-9-83 (MD83)	Two Pratt and Whitney JT8D-219 engines One AiResearch GTC P85-98D auxiliary power unit

MAXIMUM WEIGHTS:

DC-9-14, -15	Lb	Kg
Maximum Taxying weight	91,500 lb	(41,504 kg)
Maximum take-off weight	90,700 lb	(41,142 kg)
Maximum landing weight	81,700 lb	(37,059 kg)
Maximum zero fuel weight	74,00lb	(33,566 kg)
Maximum aerobatic weight		

DC-9-32	Lb	Kg
Maximum Taxying weight	109, 000 lb	(49,433 kg)
Maximum take-off weight	108, 000 lb	(48,980 kg)
Maximum landing weight	98,100 lb	(44,490 kg)
Maximum zero fuel weight	87,000 lb	(39,456 kg)
Maximum aerobatic weight		

DC-9-83 (MD83)	Lb	Kg
Maximum Taxying weight	161,000 lb	(73,028 kg)
Maximum take-off weight	160,000 lb	(72,575 kg)
Maximum landing weight	150,000 lb	(68,040 kg)
Maximum zero fuel weight	122,000 lb	(55,338 kg)
Maximum aerobatic weight		

DIMENSIONS:

DC-9 Series 10 (-14,-15)	Ft	M
Length	104.4ft	31.8m
Wingspan	89.4 ft	27.2m
Height	27.5ft	8.4m
Wing area	*934.3ft ^{2}	88.8m^2

DC-9 Series 30 (-32)	Ft.	M
Length	119.3ft	36.4m
Wingspan	93.3ft	28.4m
Height	27.5ft	8.4m
Wing Area	*1000.7ft ^{2}	93.0m^2

DC-9 Series 83 (MD-83)	Ft	M
Length	147.8ft	45.0m
Wingspan	107.8ft	32.9m
Height	29.7ft	9.1m
Wing Area	*1209.3ft^2	112.3m^2

* Note: wing areas are Trapezoidal areas.

MINIMUM CREW: UK Two pilots.

MAXIMUM OCCUPANTS/PASSENGERS:

The total number occupants carried, including crew, shall not exceed the number for which seating accommodation, approved for take-off and landing, is provided.

The maximum number of occupants is as follows:

	Including Crew	Max. no. of passengers
DC-9-14, -15	96	90
DC-9-32	122	115
DC-9-83 (MD83)	180	172

OPERATING LIMITATIONS: The operating limitations are provided in Section 1 of each models Aircraft Flight Manual (AFM):

DC-9 Series -10 (-14, -15)	AFM LB-32999
DC-9 Series -10 (-32)	AFM DAC-33530
DC-9 Series -83 (MD-83)	AFM MDC-J8480M

MANDATORY MAINTENANCE INSTRUCTIONS: No maintenance instructions requirements existed when the DC-9 Series -10 and Series-30 were certified.

The MD-83 maintenance requirements are found in the DC-9-80 Fixed Maintenance Interval Report (now called Certification Maintenance Requirements, or CMR) report number: MDC-J1271.

NOISE: The noise characteristics are provided in each models AFM:

Model	AFM	Section
DC-9 Series -10 (-14, -15)	LB-32999	Appx.7,sect 4
DC-9 Series -10 (-32)	DAC-33530	Appx.11,sect 4
DC-9 Series -83 (MD-83)	MDC-J8480M	Sect 4D

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