ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION:	JT8D-15	BYPASS RATIO:	1.0
UNIQUE ID NUMBER:	1PW009	PRESSURE RATIO (π_{oo}):	16.8
COMBUSTOR:	Smoke fix		
ENGINE TYPE:	MTF	RATED THRUST (F_{oo}) (kN):	68.9

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO$_X$	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	43.4	137.4	60.1	25.3
AS % OF ORIGINAL LIMIT	221.2	116.4	81.6	96.6
AS % OF CAEP/2 LIMIT (NO$_X$)			102.0	
AS % OF CAEP/4 LIMIT (NO$_X$)			119.9	
AS % OF CAEP/6 LIMIT (NO$_X$)			129.7	
AS % OF CAEP/8 LIMIT (NO$_X$)			152.5	

DATA STATUS

- x   PRE-REGULATION
- -   CERTIFICATION
- x   REVISED (SEE REMARKS)

TEST ENGINE STATUS

- x   NEWLY MANUFACTURED ENGINES
- -   DEDICATED ENGINES TO PRODUCTION STANDARD
- -   OTHER (SEE REMARKS)

EMISSIONS STATUS

- x   DATA CORRECTED TO REFERENCE
  (ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)

- x   OUT OF PRODUCTION (DATE: -   )
- -   OUT OF SERVICE   (DATE: -   )

MEASURED DATA

MODE	POWER SETTING (%F_{oo})	TIME (minutes)	FUEL FLOW (kg/s)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NO$_X$	
TAKE-OFF	100	0.7	1.178	0.25	0.70	19.10	
CLIMB OUT	85	2.2	0.945	0.25	1.00	15.00	
APPROACH	30	4.0	0.340	1.65	9.60	5.90	
IDLE	7	26.0	0.148	11.00	35.20	3.00	
LTO TOTAL FUEL (kg) or EMISSIONS (g)			486	2713	9054	3989	-
NUMBER OF ENGINES				7	7	7	7
NUMBER OF TESTS				8	8	8	8
AVERAGE D_p/F_{oo} (g/kN) or AVERAGE SN (MAX)				39.3	130.6	57.9	23.8
SIGMA (D_p/F_{oo} in g/kN, or SN)							
RANGE (D_p/F_{oo} in g/kN, or SN)							

ACCESSORY LOADS

POWER EXTRACTION	0	(kW)	AT	-	POWER SETTINGS	
STAGE BLEED	0	(% CORE FLOW)	AT	-	POWER SETTINGS	

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	
TEMPERATURE (K)	269-302
ABS HUMIDITY (kg/kg)	

FUEL

SPEC	Jet A
H/C	
AROM (%)	

MANUFACTURER:	Pratt & Whitney
TEST ORGANIZATION:	P&WA
TEST LOCATION:	East Hartford, CT
TEST DATES:	01/04/1976-01/03/1977

REMARKS

     1. Smoke fix combustor in production prior to 1/1/84

Compliance with Fuel Venting requirements: -   *('x' if complies, 'PR' if pre-regulation,*
'-' if information is not available)