ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION:	JT8D-11	BYPASS RATIO:	1
UNIQUE ID NUMBER:	1PW008	PRESSURE RATIO (π_{oo}):	17.17
ENGINE TYPE:	MTF	RATED OUTPUT (F_{oo}) (kN):	66.72

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	39.5	139.8	57.6	24.0
AS % OF ORIGINAL LIMIT	201.6 %	118.4 %	77.5 %	90.9 %
AS % OF CAEP/2 LIMIT (NOx)			96.9 %	
AS % OF CAEP/4 LIMIT (NOx)			112.6 %	
AS % OF CAEP/6 LIMIT (NOx)			121.3 %	
AS % OF CAEP/8 LIMIT (NOx)			141.2 %	

DATA STATUS

- x PRE-REGULATION
- - CERTIFICATION
- - 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

MEASURED DATA

MODE	POWER SETTING (%F_{oo})	TIME minutes	FUEL FLOW kg/s	EMISSIONS INDICES (g/kg) HC	CO	NOx	SMOKE NUMBER
TAKE-OFF	100	0.7	1.121	0.4	1.2	18.9	-
CLIMB OUT	85	2.2	0.914	0.45	1.9	14.6	-
APPROACH	30	4.0	0.334	1.4	9.4	5.8	-
IDLE	7	26.0	0.146	10	35	2.75	-
LTO TOTAL FUEL (kg) or EMISSIONS (g)			475	2455	8983	3740	-
NUMBER OF ENGINES				13	13	13	13
NUMBER OF TESTS				14	14	14	14
AVERAGE D_p/F_{oo} (g/kN) or AVERAGE SN (MAX)				36.8	134.7	56.1	23
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)	262 - 300
ABS HUMIDITY (kg/kg)	-

FUEL

SPEC	Jet A
H/C	-
AROM (%)	-

MANUFACTURER:	Pratt & Whitney
TEST ORGANIZATION:	P&WA
TEST LOCATION:	E Hartford, CT, USA
TEST DATES:	FROM 26 Feb 80 TO 18 Jun 80

REMARKS

1. Reduced Emissions Combustor incorporated 1/1/84

If REVISED, this data supersedes databank UID
Compliance with fuel venting requirements: 0   ('x' if complies, PR if pre-regulation)