ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: JT3D-3B   BYPASS RATIO: 1.4
UNIQUE ID NUMBER: 1PW001   PRESSURE RATIO (π_{oo}):   13.6
ENGINE TYPE: TF   RATED OUTPUT (F_{oo}) (kN):   80.06

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	395.4	328.2	37.7	63.9
AS % OF ORIGINAL LIMIT	2,017.6 %	278.2 %	56.1 %	254.1 %
AS % OF CAEP/2 LIMIT (NOx)			70.2 %	
AS % OF CAEP/4 LIMIT (NOx)			88.3 %	
AS % OF CAEP/6 LIMIT (NOx)			98.1 %	
AS % OF CAEP/8 LIMIT (NOx)			123.7 %	

DATA STATUS

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

TEST ENGINE STATUS

    -    NEWLY MANUFACTURED ENGINES
    x   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)			SMOKE NUMBER
				HC	CO	NOx	
TAKE-OFF	100	0.7	1.174	4	1.5	12.1	-
CLIMB OUT	85	2.2	0.932	2	2.8	9.9	-
APPROACH	30	4.0	0.346	4	24.5	4.8	-
IDLE	7	26.0	0.135	112	98	2.5	-
LTO TOTAL FUEL (kg) or EMISSIONS (g)			466	24363	23092	2740	-
NUMBER OF ENGINES				2	2	2	2
NUMBER OF TESTS				-	-	-	-
AVERAGE D_p/F_{oo} (g/kN) or AVERAGE SN (MAX)				303.9	288.1	34.3	54.5
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)	-
ABS HUMIDITY (kg/kg)	-

FUEL

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

MANUFACTURER: Pratt & Whitney
TEST ORGANIZATION: P&WA
TEST LOCATION: East Hartford, CT, USA.
TEST DATES: FROM   08 Mar 72   TO 12 Sep 74

REMARKS

1. Emissions data estimated from JT3D-7 engines using JT3D-3B performance data.

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