ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: PW4x62
UNIQUE ID NUMBER: 1PW058
ENGINE TYPE: TF

BYPASS RATIO: 4.4
PRESSURE RATIO (π_{oo}): 33.4
RATED OUTPUT (F_{oo}) (kN): 275.8

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	3.1	31.4	64.9	10.8
AS % OF ORIGINAL LIMIT	15.7 %	26.6 %	60.8 %	60.3 %
AS % OF CAEP/2 LIMIT (NOx)			76.0 %	
AS % OF CAEP/4 LIMIT (NOx)			88.0 %	
AS % OF CAEP/6 LIMIT (NOx)			98.7 %	
AS % OF CAEP/8 LIMIT (NOx)			114.0 %	

DATA STATUS

- \- PRE-REGULATION
- x 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	2.858	0.1	0.35	36.3	8.4
CLIMB OUT	85	2.2	2.161	0.06	0.49	25.7	-
APPROACH	30	4.0	0.725	0.14	1.69	12.2	-
IDLE	7	26.0	0.217	1.53	19.51	4.9	-
LTO TOTAL FUEL (kg) or EMISSIONS (g)			918	571	7080	15470	-
NUMBER OF ENGINES				1	1	1	1
NUMBER OF TESTS				3	3	3	3
AVERAGE D_p/F_{oo} (g/kN) or AVERAGE SN (MAX)				2	25.6	56	8.4
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)	100.2
TEMPERATURE (K)	299
ABS HUMIDITY (kg/kg)	0.01

FUEL

SPEC	Jet A
H/C	1.88
AROM (%)	19.7

MANUFACTURER: Pratt & Whitney
TEST ORGANIZATION: -
TEST LOCATION: -
TEST DATES: FROM 17 Aug 87 TO 23 Aug 87

REMARKS

Data from X698-5 with reduced smoke combustor.

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