ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION:	PW4060	BYPASS RATIO:	4.5
UNIQUE ID NUMBER:	1PW043	PRESSURE RATIO (π_{oo}):	32.4
ENGINE TYPE:	TF	RATED OUTPUT (F_{oo}) (kN):	266.9

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	3.4	33.3	61.1	10.7
AS % OF ORIGINAL LIMIT	17.3 %	28.2 %	58.3 %	59.1 %
AS % OF CAEP/2 LIMIT (NOx)			72.9 %	
AS % OF CAEP/4 LIMIT (NOx)			85.1 %	
AS % OF CAEP/6 LIMIT (NOx)			95.8 %	
AS % OF CAEP/8 LIMIT (NOx)			111.3 %	

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	HC	CO	NOx	SMOKE NUMBER
				EMISSIONS INDICES (g/kg)			
TAKE-OFF	100	0.7	2.647	0.1	0.37	32.8	8.3
CLIMB OUT	85	2.2	2.085	0.03	0.51	24.7	-
APPROACH	30	4.0	0.703	0.14	1.78	12	-
IDLE	7	26.0	0.213	1.66	20.32	4.9	-
LTO TOTAL FUEL (kg) or EMISSIONS (g)			887	595	7234	14097	-
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)				2.2	27.1	52.7	8.3
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)