ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-6K
UNIQUE ID NUMBER: 1GE003
ENGINE TYPE: TF

BYPASS RATIO: 5.9
PRESSURE RATIO (π_{oo}): 24.7
RATED OUTPUT (F_{oo}) (kN): 174.8

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	36.7	93.3	68.9	4.3
AS % OF ORIGINAL LIMIT	187.4 %	79.1 %	77.1 %	20.9 %
AS % OF CAEP/2 LIMIT (NOx)			96.4 %	
AS % OF CAEP/4 LIMIT (NOx)			117.8 %	
AS % OF CAEP/6 LIMIT (NOx)			133.8 %	
AS % OF CAEP/8 LIMIT (NOx)			161.5 %	

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	1.736	0.3	0.5	40	4
CLIMB OUT	85	2.2	1.431	0.3	0.5	32.6	3
APPROACH	30	4.0	0.484	0.7	6.5	11.4	3
IDLE	7	26.0	0.173	21	54.2	4.5	4
LTO TOTAL FUEL (kg) or EMISSIONS (g)			648	5821	15496	11611	−
NUMBER OF ENGINES				7	7	7	7
NUMBER OF TESTS				7	7	7	7
AVERAGE D_p/F_{oo} (g/kN) or AVERAGE SN (MAX)				33.3	88.7	66.4	4
SIGMA (D_p/F_{oo} in g/kN, or SN)				3.5	6.9	2.3	2.2
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)	99.15-100.46
TEMPERATURE (K)	280 - 301
ABS HUMIDITY (kg/kg)	.003-.015

FUEL

SPEC	Jet A
H/C	1.93
AROM (%)	18.7

MANUFACTURER: GE Aircraft Engines
TEST ORGANIZATION: Production Engine Test
TEST LOCATION: Production Test Cells M34 & M35
TEST DATES: FROM 16 Aug 79 TO 19 Nov 79

REMARKS

1. Ref Report no FAA-EE-80-27 (GE Report R80AEG420)

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