



ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-6D1A
UNIQUE ID NUMBER: 1GE002
ENGINE TYPE: TF

BYPASS RATIO: 5.9
PRESSURE RATIO (π_{oo}): 25.4
RATED OUTPUT (F_{oo}) (kN): 181.9

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	34.1	87.1	71.6	-
AS % OF ORIGINAL LIMIT	173.9 %	73.8 %	78.9 %	0.0 %
AS % OF CAEP/2 LIMIT (NOx)			98.6 %	
AS % OF CAEP/4 LIMIT (NOx)			120.1 %	
AS % OF CAEP/6 LIMIT (NOx)			136.5 %	
AS % OF CAEP/8 LIMIT (NOx)			164.1 %	

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)			SMOKE NUMBER
				HC	CO	NOx	
TAKE-OFF	100	0.7	1.812	0.3	0.5	41.6	4
CLIMB OUT	85	2.2	1.502	0.3	0.5	33.9	3
APPROACH	30	4.0	0.494	0.6	5.5	11.8	3
IDLE	7	26.0	0.176	19.9	52	4.6	4
LTO TOTAL FUEL (kg) or EMISSIONS (g)			667	5617	15066	12549	-
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)				30.9	82.8	69	-
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)