

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-80C2B4 BYPASS RATIO: 5.1 PRESSURE RATIO $(\pi_{\circ\circ})$: 30.36 UNIQUE ID NUMBER: 1GE027 RATED OUTPUT (Foo) (kN): ENGINE TYPE: TF 254.35

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	15.8	63.6	48.5	8.4
AS % OF ORIGINAL LIMIT	80.7 %	53.9 %	48.1 %	46.1 %
AS % OF CAEP/2 LIMIT (NOx)			60.2 %	
AS % OF CAEP/4 LIMIT (NOx)			71.6 %	
AS % OF CAEP/6 LIMIT (NOx)			81.2 %	
AS % OF CAEP/8 LIMIT (NOx)			95.4 %	

DATA STATUS

PRE-REGULATION

CERTIFICATION

REVISED (SEE REMARKS)

EMISSIONS STATUS

DATA CORRECTED TO REFERENCE

(ANNEX 16 VOLUME II)

TEST ENGINE STATUS

NEWLY MANUFACTURED ENGINES ×

DEDICATED ENGINES TO PRODUCTION STANDARD

OTHER (SEE REMARKS)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)

OUT OF PRODUCTION (DATE: -)

OUT OF SERVICE

FUEL

SPEC

H/C AROM (%)

MEASURED DATA

POWER TIME FUEL FLC		FUEL FLOW	EMISSIONS INDICES (g/kg)				
MODE	SETTING	minutes	kg/s	HC	CO	NOx	SMOKE NUMBER
	(%F ₀₀)						
TAKE-OFF	100	0.7	2.430	0.08	0.56	29.2	7.2
CLIMB OUT	85	2.2	1.982	0.09	0.54	21.8	4.8
APPROACH	30	4.0	0.650	0.21	2.33	8.9	2.3
IDLE	7	26.0	0.199	9.74	43.91	3.67	3
LTO TOTAL FUEL (kg) or EMISSIONS (g) 830			3088	14193	11211	_	
NUMBER OF ENGINES				2	2	2	2
NUMBER OF TESTS				3	3	3	3
AVERAGE D_p/F_{oo} (g/kN) or AVERAGE SN (MAX)			12.15	55.86	44.08	7.2	
SIGMA (D_p/F_{oo} in g/kN , or SN)			1.27	3.05	2.12	1.1	
RANGE $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$				11.05-13.3	53.22-58.61	42.30-46.38	5.8-7.7

ACCESSORY LOADS

(kW) % CORE FLOW POWER EXTRACTION 0 AΤ POWER SETTINGS STAGE BLEED POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.40-97.82
TEMPERATURE (K)	287 - 296
ABS HUMIDITY (kg/kg)	.00840140

MANUFACTURER: GE Aircraft Engines CF6 Evaluation Engineering TEST ORGANIZATION: TEST LOCATION: Site IIIC, PTO, Peebles, Ohio FROM 29 May 85

TEST DATES: TO 03 Jun 85

REMARKS

1. Ref GE Reports R84AEB152 and R86AEB144 (Rev Aug 86).

2. Engine S/N's 690105 and 690005/2.

If REVISED, this data supersedes databank UID Compliance with fuel venting requirements:

0 ('x' if complies, PR if pre-regulation)

Jet A 1.94

15.3