



ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION:	GE90-76B	BYPASS RATIO:	8.6
UNIQUE ID NUMBER:	3GE062	PRESSURE RATIO $(\pi_{\circ\circ})$:	35.1
ENGINE TYPE:	TF	RATED OUTPUT (F $_{\circ\circ})$ (kN):	360.62

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	0.9	21.1	57.8	0.6
AS % OF ORIGINAL LIMIT	4.6 %	17.9 %	52.5 %	3.6 %
AS % OF CAEP/2 LIMIT (NOx)			65.6 %	
AS % OF CAEP/4 LIMIT (NOx)			74.9 %	
AS % OF CAEP/6 LIMIT (NOx)			83.6 %	
AS % OF CAEP/8 LIMIT (NOx)			95.8 %	

DATA STATUS

- PRE-REGULATION
- x CERTIFICATION
- REVISED (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE (ANNEX 16 VOLUME II)

TEST ENGINE STATUS

- x NEWLY MANUFACTURED ENGINES
- DEDICATED ENGINES TO PRODUCTION STANDARD
- OTHER (SEE REMARKS)

CURRENT ENGINE STATUS

FUEL

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED) $$\rm x$~$ OUT OF PRODUCTION (DATE: -)

- OUT OF SERVICE

MEASURED DATA

	POWER TIME FUEL FLOW			EMIS			
MODE	SETTING	minutes	kg/s	HC	CO	NOx	SMOKE NUMBER
	(%F ₀₀)						
TAKE-OFF	100	0.7	2.824	0.04	0.15	40.11	2
CLIMB OUT	85	2.2	2.311	0.04	0.17	31.59	1.8
APPROACH	30	4.0	0.781	0.07	1.32	15.55	1.8
IDLE	7	26.0	0.280	0.57	15.41	5.43	1.8
LTO TOTAL FUEL (kg) or EMISSIONS (g) 1048			279	7048	19680	-	
NUMBER OF ENGINES			3	3	3	3	
NUMBER OF TESTS			5	5	5	5	
AVERAGE D_p/F_{oo} (g/kN) or AVERAGE SN (MAX)			0.77	19.55	54.58	0	
SIGMA $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			-	-	-	-	
RANGE $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			0.45-1.08	17.1-21.6	50.5-57.3	0.0-1.93	

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.52-98.62	1 [SPEC
TEMPERATURE (K)	283-301		H/C
ABS HUMIDITY (kg/kg)	.00360151		AROM (

MANUFACTURER:		GE						
TEST ORGANIZATION:		GE90	Eval Eng	gineering				
TEST LOCATION:		Site	IIID, PT	TO, Peebles	, Oh	io,	USA	
TEST DATES:	FROM	24	Apr 97		TO	19	Jun	97

REMARKS

- 1. GE Report R96AEB292.
- 2. Engine S/S 900-173, 900-166 & 900-167

3. DAC II combustor

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

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

Jet A 1.91-1.94 18.1-19.3