ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

** DATA SUPERSEDED ** SEE SHEET: 8GE100

ENGINE IDENTIFICATION:	GE90-94B	BYPASS RATIO:	8.33
UNIQUE ID NUMBER:	6GE091	PRESSURE RATIO (π_{oo}):	40.53
ENGINE TYPE:	TF	RATED OUTPUT (F_{oo}) (kN):	432.8

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	0.8	17.5	83.2	4.8
AS % OF ORIGINAL LIMIT	4.0 %	14.8 %	68.7 %	30.0 %
AS % OF CAEP/2 LIMIT (NOx)			85.9 %	
AS % OF CAEP/4 LIMIT (NOx)			94.5 %	
AS % OF CAEP/6 LIMIT (NOx)			104.0 %	
AS % OF CAEP/8 LIMIT (NOx)			116.9 %	

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	EMISSIONS INDICES (g/kg) HC	CO	NOx	SMOKE NUMBER
TAKE-OFF	100	0.7	3.514	0.04	0.12	56.41	3.7
CLIMB OUT	85	2.2	2.848	0.04	0.12	41.74	2.9
APPROACH	30	4.0	0.908	0.05	1.07	17.38	3.2
IDLE	7	26.0	0.296	0.41	12.69	6.09	2.5
LTO TOTAL FUEL (kg) or EMISSIONS (g)			1203	221	6156	30617	-
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)				0.51	14.24	70.76	3.7
SIGMA (D_p/F_{oo} in g/kN, or SN)				0.035	0.358	0.278	0.726
RANGE (D_p/F_{oo} in g/kN, or SN)				0.47-0.53	13.83-14.49	70.43-70.92	2.89-4.29

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.3 - 98.2
TEMPERATURE (K)	279.1 - 281.6
ABS HUMIDITY (kg/kg)	.0022 - .0064

FUEL

SPEC	Jet A
H/C	1.92
AROM (%)	17.4

MANUFACTURER:	GE
TEST ORGANIZATION:	GE90 Eval Engineering
TEST LOCATION:	Site IIID, PTO, Peebles, OH
TEST DATES:	FROM 09 Jan 00 TO 12 Jan 00

REMARKS

1. Ref. GE Report R97AEB298,
2. Engine S/N 900326
3. Turbomachinery incorporating 3D aero

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