ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: GE90-92B
UNIQUE ID NUMBER: 3GE061
ENGINE TYPE: TF

BYPASS RATIO: 8.4
PRESSURE RATIO (π_{oo}): 40.4
RATED OUTPUT (F_{oo}) (kN): 426.72

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	4.4	55.5	77.4	10.5
AS % OF ORIGINAL LIMIT	22.4 %	47.0 %	64.1 %	66.0 %
AS % OF CAEP/2 LIMIT (NOx)			80.1 %	
AS % OF CAEP/4 LIMIT (NOx)			88.2 %	
AS % OF CAEP/6 LIMIT (NOx)			97.0 %	
AS % OF CAEP/8 LIMIT (NOx)			109.1 %	

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	3.523	0.09	0.08	59.56	0
CLIMB OUT	85	2.2	2.830	0.07	0.1	45.41	0
APPROACH	30	4.0	0.902	1.17	21.87	10.89	0
IDLE	7	26.0	0.316	2.64	34.7	6.17	9.3
LTO TOTAL FUEL (kg) or EMISSIONS (g)			1231	1594	21891	31175	-
NUMBER OF ENGINES				3	3	3	3
NUMBER OF TESTS				3	3	3	3
AVERAGE D_p/F_{oo} (g/kN) or AVERAGE SN (MAX)				3.74	51.31	73.05	9.5
SIGMA (D_p/F_{oo} in g/kN, or SN)				-	-	-	-
RANGE (D_p/F_{oo} in g/kN, or SN)				3.58-3.94	48.4-53.3	71.7-75.7	8.9-9.5

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.38-98.59
TEMPERATURE (K)	274-299
ABS HUMIDITY (kg/kg)	.001-.0073

FUEL

SPEC	Jet A
H/C	1.94
AROM (%)	17.2

MANUFACTURER: GE
TEST ORGANIZATION: GE90 Eval Engineering
TEST LOCATION: Site IVD & 6, PTO, Peebles, Ohio, USA
TEST DATES: FROM 24 Feb 95 TO 28 Jul 95

REMARKS

1. GE Report TM95-17.
2. Engine S/N 704/223 & 704/234
3. DAC I combustor

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