



## ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

## SUBSONIC ENGINES

ENGINE IDENTIFICATION: GENx-1B76A/P2 BYPASS RATIO: 8.6  
UNIQUE ID NUMBER: 16GE169 PRESSURE RATIO ( $\pi_{00}$ ): 47.5  
COMBUSTOR: TAPS  
ENGINE TYPE: TF RATED THRUST ( $F_{00}$ ) (kN): 349.2

REGULATORY DATA \*\* DATA SUPERSEDED \*\* SEE FOLLOWING UID FOR REVISED DATA: 17GE180

CHARACTERISTIC VALUE:	HC	CO	NO <sub>x</sub>	SMOKE NUMBER
D <sub>p</sub> /F <sub>00</sub> (g/kN) or SN	0.6	17.5	57.3	0.8
AS % OF ORIGINAL LIMIT	3.2	14.8	42.4	4.4
AS % OF CAEP/2 LIMIT (NO <sub>x</sub> )			53.0	
AS % OF CAEP/4 LIMIT (NO <sub>x</sub> )			56.1	
AS % OF CAEP/6 LIMIT (NO <sub>x</sub> )			60.9	
AS % OF CAEP/8 LIMIT (NO <sub>x</sub> )			67.3	

## DATA STATUS

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

## TEST ENGINE STATUS

x NEWLY MANUFACTURED ENGINES  
x 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)  
- OUT OF PRODUCTION (DATE: - )  
- OUT OF SERVICE (DATE: - )

## MEASURED DATA

MODE	POWER SETTING (%F <sub>00</sub> )	TIME (minutes)	FUEL FLOW (kg/s)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NO <sub>x</sub>	
TAKE-OFF	100	0.7	2.790	0.03	0.05	46.90	0.2
CLIMB OUT	85	2.2	2.262	0.02	0.09	26.78	0.2
APPROACH	30	4.0	0.709	0.04	1.53	11.78	0.4
IDLE	7	26.0	0.223	0.36	13.44	5.04	0.1
LTO TOTAL FUEL (kg) or EMISSIONS (g)			934	140	4980	17251	-
NUMBER OF ENGINES				1	1	1	1
NUMBER OF TESTS				3	3	3	3
AVERAGE D <sub>p</sub> /F <sub>00</sub> (g/kN) or AVERAGE SN (MAX)				0.4	14.3	49.4	0.6
SIGMA (D <sub>p</sub> /F <sub>00</sub> in g/kN, or SN)				0.0	0.0	0.3	0.3
RANGE (D <sub>p</sub> /F <sub>00</sub> in g/kN, or SN)				0.38-0.43	14.2-14.3	49.1-49.7	0-0.97

## ACCESSORY LOADS

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

AT All POWER SETTINGS  
AT All POWER SETTINGS

## ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	98.1-98.5
TEMPERATURE (K)	295.1-298.8
ABS HUMIDITY (kg/kg)	0.01189-0.01439

## FUEL

SPEC	Jet A
H/C	1.89
AROM (%)	15.4

MANUFACTURER: General Electric Company  
TEST ORGANIZATION: General Electric Company  
TEST LOCATION: PTO, Ohio  
TEST DATES: 19/06/2012-21/06/2012

NO<sub>x</sub> REGULATION PARAGRAPH

	2.3.2 c) (CAEP/4)
	2.3.2 d) (CAEP/6)
x	2.3.2 e) (CAEP/8)

## REMARKS

1. Ref. GE REPORT R2016AE118/Rev. 0
2. Certification in accordance with Part III, Chapter 2, of Amendment 8 of ICAO Annex 16 Vol. II.
3. NO<sub>x</sub> levels in accordance with Part III, Chapter 2, 2.3.2 e) (CAEP/8)

Compliance with Fuel Venting requirements:

x ('x' if complies, 'PR' if pre-regulation, '-' if information is not available)