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## Cf6 50 Engine Model

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Engine Description CF6-50 engine emissions testing with traverse probeThe variation in emissions over the exhaust area of a General Electric CF6-50 model engine was investigated in order to determine the requirements for a representative sample. The emission measurements were made in a systematic pattern of 120 sample points using a traversing probe system. These data were used to develop detailed emission profiles at three power levels. At idle power, variations over the exhaust area are attributed to the

particular fueling pattern used in current CF6-50 model engines. At higher power levels, where uniform fueling is employed, emission levels are more uniform and are characterized by a slightly peaked radial profile. Average values from the 120-point traverse were compared with selected 12-point averages in the EPA prescribed cruciform pattern. Generally good agreement between the two averages was obtained. (Author).NASA Conference PublicationDetermination of Pollutant Emissions Characteristics of General Electric CF6-6 and CF6-50 Model EnginesEngine Diagnostics ProgramBoard of Contract Appeals DecisionsThe full texts of Armed Services and other Boards of Contract Appeals decisions on contracts appeals.CF6-50CTOL Transport Technology, 1978Parts Manufacturer ApprovalsFAA Certification Process and Regulation of Illegal Commercial OperatorsFederal RegisterAviation Safety, DC-10

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Crash of May 25, 1979The CF6-50 Engine Line  
Maintenance TasksAircraft Engine EmissionsUpper  
Atmospheric Programs, BulletinOversight of FAA-  
reliability of "drilled" Turbine Fan Bladeson CF-6  
Engine Used to Power DC-10 and A-300B Aircraft,  
Hearings Before the Special Subcommittee on  
Investigations ..., 93-2, July 2 and 10, 1974Exhaust  
emission characteristics and variability for maintained  
General Electric CF6-50 turbofan enginesFive General  
Electric (GE) CF6-50 turbofan engines were tested at  
the GE overhaul facility in Ontario, California, to  
quantify and determine the variability of the exhaust  
emission levels. The effects of heavy maintenance on  
these emission levels were also studied. Only two of  
the engines tested actually received major  
maintenance. Consequently, the data collected is  
limited in quantity. Conclusions, observations, and  
recommendations are presented based on this limited  
data base. No correlation of exhaust emission levels  
and type of maintenance was possible. The exhaust  
emission levels of carbon monoxide (CO) and oxides  
of nitrogen (NOx) have been determined; total  
hydrocarbon (THC) levels are not quantified. The  
variability of the CO and NOx species is less than five  
percent, THC variability is almost 30 percent. The  
engine emissions did not meet the current or proposed  
federal standards. Ninety percent of the turbine  
engine exhaust emissions are produced at the idle

power mode. The operational parameters for this  
important (from the stand-point of emission data  
collection) mode are vague and should be more  
defined. The type of fuel used for emission testing has  
a significant effect on the resultant exhaust emission  
levels. (Author).CF6-50 Basic engine student  
notebookAviation Week & Space TechnologyEnergy  
Research AbstractsEngine DescriptionScientific and  
Technical Aerospace ReportsCode of Federal  
RegulationsSpecial edition of the Federal register,  
containing a codification of documents of general  
applicability and future effect as of Jan. ... with  
ancillaries.Code of Federal RegulationsThe Code of  
Federal Regulations of the United States of  
AmericaThe Code of Federal Regulations is the  
codification of the general and permanent rules  
published in the Federal Register by the executive  
departments and agencies of the Federal  
Government.Starting Something Big  
CF6-50 engine emissions testing with traverse probe  
Aircraft Accident Report AIAA  
The full texts of Armed Services and othr Boards of Contract  
Appeals decisions on contracts appeals.  
*CF6-50 Basic engine student notebook* National Academies Press  
On cover: Environment: traffic.  
**Code of Federal Regulations**  
The variation in emissions over the exhaust  
area of a General Electric CF6-50 model engine

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was investigated in order to determine the requirements for a representative sample. The emission measurements were made in a systematic pattern of 120 sample points using a traversing probe system. These data were used to develop detailed emission profiles at three power levels. At idle power, variations over the exhaust area are attributed to the particular fueling pattern used in current CF6-50 model engines. At higher power levels, where uniform fueling is employed, emission levels are more uniform and are characterized by a slightly peaked radial profile. Average values from the 120-point traverse were compared with selected 12-point averages in the EPA prescribed cruciform pattern. Generally good agreement between the two averages was obtained. (Author).

### **Paper**

Special edition of the Federal register, containing a codification of documents of general applicability and future effect as of Jan. ... with ancillaries.

### *Upper Atmospheric Programs, Bulletin*

Five General Electric (GE) CF6-50 turbofan engines were tested at the GE overhaul facility in Ontario, California, to quantify and determine the variability of the exhaust emission levels. The effects of heavy maintenance on these emission levels were also studied. Only two of the engines tested actually received major maintenance. Consequently, the data collected is limited in quantity. Conclusions, observations, and recommendations are presented based on this limited data base. No correlation of exhaust emission levels and type of maintenance was

possible. The exhaust emission levels of carbon monoxide (CO) and oxides of nitrogen (NOx) have been determined; total hydrocarbon (THC) levels are not quantified. The variability of the CO and NOx species is less than five percent, THC variability is almost 30 percent. The engine emissions did not meet the current or proposed federal standards. Ninety percent of the turbine engine exhaust emissions are produced at the idle power mode. The operational parameters for this important (from the stand-point of emission data collection) mode are vague and should be more defined. The type of fuel used for emission testing has a significant effect on the resultant exhaust emission levels. (Author).

### **ASME Technical Papers**

Written by a former, long-time international manager of General Electric Company, this volume offers a history of the political and market forces affecting the engine industry, GE's role in the changes, and how GE converted itself from military to commercial markets, with conclusions drawn for potential investors in the industry. Annotation copyrighted by Book News, Inc., Portland, OR

### NASA Technical Paper

The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government.

### Determination of Pollutant Emissions Characteristics of General Electric CF6-6 and CF6-50 Model Engines

Because of the important national defense contribution of large, non-fighter aircraft, rapidly increasing fuel costs and increasing dependence on imported oil have triggered significant interest in increased aircraft engine efficiency by the U.S. Air Force. To help address this need, the Air Force asked the National Research Council (NRC) to examine and assess technical options for improving engine efficiency of all large non-fighter aircraft under Air Force command. This report presents a

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review of current Air Force fuel consumption patterns; an analysis of *Aircraft Engine Emissions* previous programs designed to replace aircraft engines; an examination of proposed engine modifications; an assessment of the potential impact of alternative fuels and engine science and technology programs, and an analysis of costs and funding requirements.

**LaGuardia Airport, East End Terminal, Draft EA B1; Final EA**

**Indianapolis International Airport Master Plan Development**

CF6 Jet Engine Performance Improvement

The CF6-50 Engine Line Maintenance Tasks

**The Code of Federal Regulations of the United States of America**

**Oversight of FAA-reliability of "drilled" Turbine Fan Blades on  
CF-6 Engine Used to Power DC-10 and A-300B Aircraft, Hearings  
Before the Special Subcommittee on Investigations ..., 93-2, July 2  
and 10, 1974**

*FAA Certification Process and Regulation of Illegal Commercial  
Operators*

**NASA Conference Publication**

Code of Federal Regulations

*Noise Standards for Aircraft Type Certification (modification to FAR  
Part 36).*