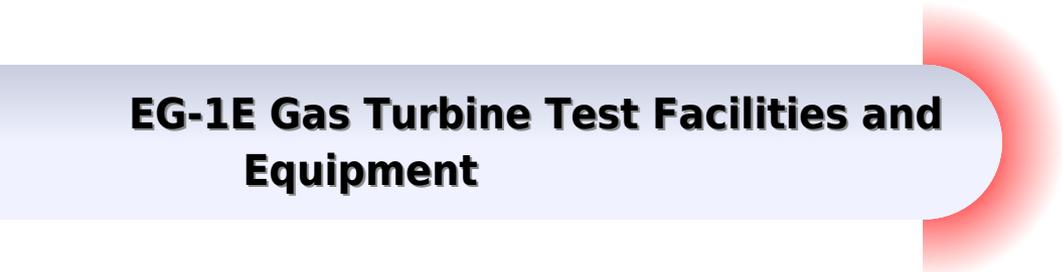




# Jet Engine Test Cell

**EG-1E Gas Turbine Test Facilities and  
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Jet Engine Test Cell Noise Reduction C. A. Kodres, 2000-08-01 Passive methods for decreasing jet engine test cell noise emissions are evaluated and compared. Such methods have the dual advantages of low cost and simplicity. In addition, the effect on the aerothermal performance of the test cell is minimal. Sound pressure levels were measured in and around test facilities equipped with various devices to further reduce noise. The data were supplemented with parametric studies of noise reduction techniques conducted using a 1/20th scale physical model of the Navy's standard T-10 jet engine test cell. Methods that attack the noise problem from outside and methods that attack the problem from inside the test cell are assessed, including trees and other vegetation, acoustic walls, core busters, and modifications to the exhaust stack. Mounting screens in the path of the jet and increasing the height of the exhaust stack are found to be the most effective. **Jet Engine Test**

**Cells** D. E. Blake, 1976 Influence of Noise Control Components and Structures on Turbojet Engine Testing and Aircraft

Ground Operation Bonard E. Morse, 1962 *Jet Engine Mechanic (AFSC 42652): Operation and adjustment of jet engines*

Ray M. Paddock, 1985 **Improved Acoustical Treatment for Engine Test Stands** John T. Welbourn, 1963

This report summarizes an investigation and test of improved materials, noise control devices, and methods of application to engine test stands for the purpose of reducing radiated noise and increasing structural durability. Included are excerpts from an acoustical survey of a modified test stand and a full report of the acoustical evaluation of experimental exhaust units for a Transportable Turbojet Engine Test Stand. Experimental work was performed at Wright Patterson Air Force Base, Ohio. Author

NAVDOKS., 1962 Modeling Techniques for Jet Engine Test Cell Aerodynamics EG-1E Gas Turbine Test Facilities and Equipment, 1999 This SAE Aerospace Information Report AIR has been written for individuals associated with ground level testing of turbofan and turbojet engines and particularly for those who might be interested in investigating the performance characteristics of a new test cell design or of proposed modifications to an existing test cell by means of a scale model test. **Noise Control for Aircraft Engine Test Cells and Ground Run-up Suppressors**, 1961 **Naval**

**Aviation News**, 1967 *Preliminary Report: Jet Engine Test Cell Emissions* Ronald D. Burnett, ENVIRONMENTAL HEALTH LAB MCCLELLAN AFB CALIF., 1970 The report presents published jet engine emission data, test cell emission data collected at McClellan AFB during the operation of a J-57 turbojet engine at idle conditions, and discusses problems involved in sampling test cell emissions. It was concluded that the variability of existing data indicates a need for a more refined study of jet engine pollutant emission rates. Author Modified Abstract **Influence of Noise Control Components and Structures**

**on Turbojet Engine Testing and Aircraft Ground Operation** Bonard E. Morse, 1962 There has been a need for summarizing and establishing adequate aerodynamic and thermodynamic design criteria for turbojet engine test cells and ground run-up suppressors. These criteria are discussed, and their uses are illustrated by examples of typical design problem solutions. The presence of noise suppression structures can have significant influences upon the operation of the turbojet

engine These influences are enumerated and evaluated with recommendations for establishing maximum acceptable effects Typical test cell configurations are presented and design criteria are established for providing noise suppression facilities which may be utilized for testing a full size aircraft or an engine by itself These facilities can be either permanent structures or portable units **Aircraft Yearbook** ,1970 *Boeing Magazine* ,1948 Engineering ,1899 *The Michigan Technic* ,1950 Physical Modeling Techniques for Jet Engine Test Cell Aerodynamics EG-1E Gas Turbine Test Facilities and Equipment,2016 This SAE Aerospace Information Report AIR has been written for individuals associated with ground level testing of turbofan and turbojet engines and particularly for those who might be interested in investigating the performance characteristics of a new test cell design or of proposed modifications to an existing test cell by means of a scale model test Revision based on the 5 year review Document name is changed to more accurately reflect report subject **American Aviation Daily** ,1954 *The SAE Journal* ,1930 Vols 30 54 1932 46 issued in 2 separately paged sections General editorial section and a Transactions section Beginning in 1947 the Transactions section is continued as SAE quarterly transactions **SAE Transactions** Society of Automotive Engineers,1928 Vols for include index which has title SAE transactions and literature developed **21st AIAA Advanced Measurement and Ground Testing Technology Conference: 00-2201 - 00-2374** ,2000

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