

## **SGT-750 Gas Turbine Case Study Mexico**

### **Presenter:**

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### **Abstract:**

The selection of Gas Turbines requires the evaluation of many criteria. First cost is important however the long term cost of ownership requires we look at installation cost, fuel cost and the cost of operation and maintenance.

On a recent project for a pipeline in Mexico CFE was looking for someone to build own and operate a pipeline for 25 years. The flow varied a great deal and increased gradually over time so part load fuel consumption and flow flexibility were also important. In this paper we will review how evaluations were made and discuss some technical solutions which allowed the owner to achieve greater flow flexibility.

Although industry standards exist for fuel consumption, compressor power requirements and available turbine horsepower suppliers do not always provide consistent values for these important pieces of information.

It is important to understand the differences between expected and guaranteed values. We must also be clear about whether guarantees are for part load conditions or only valid for full power. Finally we must understand tolerances allowed in common industry standards such as API 616, API 617 and the ASME power Test Code. (ISO references will be provided)

Only when all of these items are understood can the user understand the real long term cost of ownership.

### **Project Overview:**

CFE, the national power company of Mexico, went out for public tender for companies willing to build own and operate a gas pipeline from El Encino to La Laguna. This will become part a national grid to bring gas from Texas and provide fuel for power generation with Mexico. CFE would provide a 25 year contract to pay for gas transport. The bidders were evaluated on the net present value of the transport cost including the bidders estimate for fuel. In addition there is a limit to the fuel available and substantial penalties if the operator exceeds that limit.

The pipeline required compression in order to deliver the contract flow at the contract pressure.

# Gas Turbine Case Study

**Tony Giampaolo**



## **Gas Turbine Case Study:**

*Gas Turbines* Claire Soares, 2014-10-23 Covering basic theory components installation maintenance manufacturing regulation and industry developments *Gas Turbines A Handbook of Air Sea and Land Applications* is a broad based introductory reference designed to give you the knowledge needed to succeed in the gas turbine industry land sea and air applications Providing the big picture view that other detailed data focused resources lack this book has a strong focus on the information needed to effectively decision make and plan gas turbine system use for particular applications taking into consideration not only operational requirements but long term life cycle costs in upkeep repair and future use With concise easily digestible overviews of all important theoretical bases and a practical focus throughout *Gas Turbines* is an ideal handbook for those new to the field or in the early stages of their career as well as more experienced engineers looking for a reliable one stop reference that covers the breadth of the field Covers installation maintenance manufacturer s specifications performance criteria and future trends offering a rounded view of the area that takes in technical detail as well as well as industry economics and outlook Updated with the latest industry developments including new emission and efficiency regulations and their impact on gas turbine technology Over 300 pages of new revised content including new sections on microturbines non conventional fuel sources for microturbines emissions major developments in aircraft engines use of coal gas and superheated steam and new case histories throughout highlighting component improvements in all systems and sub systems

*Gas Turbines* Serena Vaughn, AI, 2025-03-12 *Gas Turbines* offers a comprehensive exploration of the science and mechanical engineering behind these powerful engines essential for aircraft propulsion and power generation The book delves into the core principles of thermodynamics and fluid mechanics revealing how these factors influence engine efficiency and design Did you know that gas turbines have constantly evolved since their 20th century inception driven by the need for better performance and lower emissions This book uniquely combines theoretical analysis with practical design considerations emphasizing real world applications The book progresses systematically beginning with fundamental thermodynamic principles and moving through key components like compressors combustors and turbines A significant portion focuses on using computational fluid dynamics CFD and finite element analysis FEA to refine turbine blade designs Ultimately the text explores advanced gas turbine cycles highlighting their potential to improve fuel efficiency and promote sustainable transportation

*Case Studies in Mechanical Engineering* Stuart Sabol, 2016-05-17 Using a case study approach this reference tests the reader s ability to apply engineering fundamentals to real world examples and receive constructive feedback *Case Studies in Mechanical Engineering* provides real life examples of the application of engineering fundamentals They relate to real equipment real people and real decisions They influence careers projects companies and governments The cases serve as supplements to fundamental courses in thermodynamics fluid mechanics heat transfer instrumentation economics and statistics The author explains equipment and concepts to solve the problems and suggests relevant

assignments to augment the cases Graduate engineers seeking to refresh their career or acquire continuing education will find the studies challenging and rewarding Each case is designed to be accomplished in one week earning up to 15 hours of continuing education credit Each case study provides methods to present an argument work with clients recommend action and develop new business Key features Highlights the economic consequences of engineering designs and decisions Encourages problem solving skills Application of fundamentals to life experiences Ability to practice with real life examples Case Studies in Mechanical Engineering is a valuable reference for mechanical engineering practitioners working in thermodynamics fluid mechanics heat transfer and related areas

*The Development Of The B-52 And Jet Propulsion: A Case Study In Organizational Innovation* Dr. Mark D Mandeles, 2018-10 National security decision makers face an uncertain world where the accelerated growth of knowledge has changed the character of technological advance and destabilized long standing relations within and among the military services Dr Mandeles separates the principles that guide decision making from the proverbs through a case study of decision making in the early post World War II period This study examines the impact of organization on the invention and development of jet propulsion in the form of the B 52 and illustrates both the organizational conditions conducive to developing new operational concepts and the organizational innovations necessary to implement new technology

**Progress in Sustainable Energy Technologies: Generating Renewable Energy** Ibrahim Dincer, Adnan Midilli, Haydar Kucuk, 2014-10-29 This multi disciplinary volume presents information on the state of the art in sustainable energy technologies key to tackling the world s energy challenges and achieving environmentally benign solutions Its unique amalgamation of the latest technical information research findings and examples of successfully applied new developments in the area of sustainable energy will be of keen interest to engineers students practitioners scientists and researchers working with sustainable energy technologies Problem statements projections new concepts models experiments measurements and simulations from not only engineering and science but disciplines as diverse as ecology education economics and information technology are included in order to create a truly holistic vision of the sustainable energy field The contributions feature coverage of topics including solar and wind energy biomass and biofuels waste to energy renewable fuels geothermal and hydrogen power efficiency gains in fossil fuels and energy storage technologies including batteries and fuel cells

**Approaches for Clean Combustion in Gas Turbines** Medhat A. Nemitallah, Ahmed A. Abdelhafez, Mohamed A. Habib, 2020-03-24 This book focuses on the development of novel combustion approaches and burner designs for clean power generation in gas turbines It shows the reader how to control the release of pollutants to the environment in an effort to reduce global warming After an introduction to global warming issues and clean power production for gas turbine applications subsequent chapters address premixed combustion burner designs for clean power generation gas turbine performance and insights on gas turbine operability Given its scope the book can be used as a textbook for graduate level courses on clean combustion or as a reference book to accompany compact courses for

mechanical engineers and young researchers around the world      *Turbomachinery Flow Physics and Dynamic Performance*  
 Meinhard T. Schobeiri, 2012-05-01 With this second revised and extended edition the readers have a solid source of information for designing state of the art turbomachinery components and systems at hand Based on fundamental principles of turbomachinery thermo fluid mechanics numerous CFD based calculation methods are being developed to simulate the complex 3 dimensional highly unsteady turbulent flow within turbine or compressor stages The objective of this book is to present the fundamental principles of turbomachinery fluid thermodynamic design process of turbine and compressor components power generation and aircraft gas turbines in a unified and compact manner The book provides senior undergraduate students graduate students and engineers in the turbomachinery industry with a solid background of turbomachinery flow physics and performance fundamentals that are essential for understanding turbomachinery performance and flow complexes While maintaining the unifying character of the book structure in this second revised and extended edition all chapters have undergone a rigorous update and enhancement Accounting for the need of the turbomachinery community three chapters have been added that deal with computationally relevant aspects of turbomachinery design such as boundary layer transition turbulence and boundary layer      **Gas Turbine Blade Cooling**  
 Chaitanya D Ghodke, 2018-12-10 Gas turbines play an extremely important role in fulfilling a variety of power needs and are mainly used for power generation and propulsion applications The performance and efficiency of gas turbine engines are to a large extent dependent on turbine rotor inlet temperatures typically the hotter the better In gas turbines the combustion temperature and the fuel efficiency are limited by the heat transfer properties of the turbine blades However in pushing the limits of hot gas temperatures while preventing the melting of blade components in high pressure turbines the use of effective cooling technologies is critical Increasing the turbine inlet temperature also increases heat transferred to the turbine blade and it is possible that the operating temperature could reach far above permissible metal temperature In such cases insufficient cooling of turbine blades results in excessive thermal stress on the blades causing premature blade failure This may bring hazards to the engine s safe operation Gas Turbine Blade Cooling edited by Dr Chaitanya D Ghodke offers 10 handpicked SAE International s technical papers which identify key aspects of turbine blade cooling and help readers understand how this process can improve the performance of turbine hardware      *Energy Research Abstracts*, 1992      The Gas Turbine Handbook Tony Giampaolo, 2003 The second edition of a bestseller this comprehensive reference provides the fundamental information required to understand both the operation and proper application of all types of gas turbines The completely updated second edition adds a new section on use of inlet cooling for power augmentation and NOx control It explores the full spectrum of gas turbines hardware typical application scenarios and operating parameters controls inlet treatments inspection trouble shooting and more The author discusses strategies that can help readers avoid problems before they occur and provides tips that enable diagnosis of problems in their early stages and analysis of failures to prevent

their recurrence      Modeling, Assessment, and Optimization of Energy Systems Hoseyn Sayyaadi, 2020-09-19 Modelling Assessment and Optimization of Energy Systems provides comprehensive methodologies for the thermal modelling of energy systems based on thermodynamic exergoeconomic and exergoenvironmental approaches. It provides advanced analytical approaches, assessment criteria, and the methodologies to obtain analytical expressions from the experimental data. The concept of single objective and multi objective optimization with application to energy systems is provided along with decision making tools for multi objective problems, multi criteria problems for simplifying the optimization of large energy systems, and for exergoeconomic improvement integrated with a simulator EIS method. This book provides a comprehensive methodology for modeling, assessment, improvement of any energy system with guidance and practical examples that provide detailed insights for energy engineering, mechanical engineering, chemical engineering, and researchers in the field of analysis and optimization of energy systems. Offers comprehensive analytical tools for the modeling and simulation of energy systems with applications for decision making tools. Provides methodologies to obtain analytical models of energy systems for experimental data. Covers decision making tools in multi objective problems.

**Integrated Community Energy Systems Engineering Analysis and Design Bibliography** James M. Calm, 1979      **Fundamentals of Heat Engines** Jamil Ghajer, 2020-02-05 Summarizes the analysis and design of today's gas heat engine cycles. This book offers readers comprehensive coverage of heat engine cycles. From ideal theoretical cycles to practical cycles and real cycles, it gradually increases in degree of complexity so that newcomers can learn and advance at a logical pace and so instructors can tailor their courses toward each class level. To facilitate the transition from one type of cycle to another, it offers readers additional material covering fundamental engineering science principles in mechanics, fluid mechanics, thermodynamics, and thermochemistry. Fundamentals of Heat Engines: Reciprocating and Gas Turbine Internal Combustion Engines begins with a review of some fundamental principles of engineering science before covering a wide range of topics on thermochemistry. It next discusses theoretical aspects of the reciprocating piston engine, starting with simple air standard cycles followed by theoretical cycles of forced induction engines and ending with more realistic cycles that can be used to predict engine performance as a first approximation. Lastly, the book looks at gas turbines and covers cycles with gradually increasing complexity to end with realistic engine design point and off design calculations methods. Covers two main heat engines in one single reference. Teaches heat engine fundamentals as well as advanced topics. Includes comprehensive thermodynamic and thermochemistry data. Offers customizable content to suit beginner or advanced undergraduate courses and entry level postgraduate studies in automotive mechanical and aerospace degrees. Provides representative problems at the end of most chapters along with a detailed example of piston engine design point calculations. Features case studies of design point calculations of gas turbine engines in two chapters. Fundamentals of Heat Engines can be adopted for mechanical, aerospace, and automotive engineering courses at different levels and will also benefit engineering professionals in those fields and

beyond **The Role of Exergy in Energy and the Environment** Sandro Nižetić, Agis Papadopoulos, 2018-07-30 This book is devoted to the analysis and applications of energy exergy and environmental issues in all sectors of the economy including industrial processes transportation buildings and services Energy sources and technologies considered are hydrocarbons wind and solar energy fuel cells as well as thermal and electrical storage This book provides theoretical insights along with state of the art case studies and examples and will appeal to the academic community but also to energy and environmental professionals and decision makers Energy Abstracts for Policy Analysis ,1978-11 **Scientific and Technical Aerospace Reports** ,1984 **Generation of Electrical Energy, 7th Edition** Gupta B.R., 2017-11 Generation of Electrical Energy is written primarily for the undergraduate students of electrical engineering while also covering the syllabus of AMIE and act as a refresher for the professionals in the field The subject itself is now rejuvenated with important new developments With this in view the book covers conventional topics like load curves steam generation hydro generation parallel operation as well as new topics like new sources of energy generation hydrothermal coordination static reserve reliability evaluation among others **Exergy for A Better Environment and Improved Sustainability 1** Fethi Aloui, Ibrahim Dincer, 2018-08-04 This multi disciplinary book presents the most recent advances in exergy energy and environmental issues Volume 1 focuses on fundamentals in the field and covers current problems future needs and prospects in the area of energy and environment from researchers worldwide Based on selected lectures from the Seventh International Exergy Energy and Environmental Symposium IEEEES7 2015 and complemented by further invited contributions this comprehensive set of contributions promote the exchange of new ideas and techniques in energy conversion and conservation in order to exchange best practices in energetic efficiency Included are fundamental and historical coverage of the green transportation and sustainable mobility sectors especially regarding the development of sustainable technologies for thermal comforts and green transportation vehicles Furthermore contributions on renewable and sustainable energy sources strategies for energy production and the carbon free society constitute an important part of this book Exergy for Better Environment and Sustainability Volume 1 will appeal to researchers students and professionals within engineering and the renewable energy fields **Fossil Energy Update** ,1978 *Gas Turbines* Gurrappa Injeti, 2010-09-27 This book is intended to provide valuable information for the analysis and design of various gas turbine engines for different applications The target audience for this book is design maintenance materials aerospace and mechanical engineers The design and maintenance engineers in the gas turbine and aircraft industry will benefit immensely from the integration and system discussions in the book The chapters are of high relevance and interest to manufacturers researchers and academicians as well

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