

COMPARISON ANALYSIS OF FUEL ON MANUAL AND SYSTEMATIC FLIGHT PLAN ON CITILINK AIRLINES ON THE JAKARTA-SURABAYA ROUTE USING AIRBUS A320 AIRCRAFT

Ahmad Mubarak¹

Jadon Pieter Elia Tirtanto²

Ariyono Setiawan³

Daniel Dewantoro Rumani⁴

Akademi Penerbang Indonesia Banyuwangi, Indonesia^{1,2,3,4}

Email: ahmadamoeba@gmail.com¹, jadon.tirtanto@gmail.com²,
kukuh3prasetyo@gmail.com³, danielrumani@gmail.com⁴

*Correspondence: ahmadamoeba@gmail.com

ABSTRACT: A Flight Plan is an essential element for achieving efficiency. Prior to operating a flight, a Flight Plan must be prepared. The flight operations officers (FOOs) utilize Airbus's NavBlue application to create a systematic Flight Plan. They can also manually generate a Flight Plan using the FCOM (Flight Crew Operating Manual) guidebook. This research focuses on the differences in fuel planning between the systematic and manual methods of Flight Plan creation, as there are variations between the two approaches. Qualitative methodology is used to gather and analyze secondary data, including both manual and systematic Flight Plans, weather and environmental data, as well as aircraft technical documents and fuel tank capacities. The anticipated outcome of this research is to provide valuable insights for the aviation industry in enhancing operational efficiency.

Keywords: Aviation, Flight Planning, FOO, FCOM, NavBlue

INTRODUCTION

Flight is a transportation activity that involves the use of aircraft for various purposes, such as passenger and cargo transportation, this statement is quoted in accordance with Law Number 1 of 2009. Flights always have something to do with planning a flight, just before the flight is operated, of course, there is a flight plan or in the aviation world commonly called *Flight Planning* (Altus,

2009). Pilots before carrying out the flight must know about the flight plan in order to understand everything written in the flight plan such as *weather package*, NOTAM (*Notice to Airmen*), MEL/CDL (*Minimum Equipment List/Configuration Deviation List*), *validity time*, flight number, aircraft registration, ETD/ETA (*Estimated Time Departure/Estimated Time Arrival*), route used, *Load Manifest*, Fuel Components,

Airbus Fuel Planning Manual

Mr. Rohit Manglik

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Airbus Fuel Planning Manual:

Operator's Manual for Army Models C-12A, C-12C, and C-12D Aircraft ,1989 *Monthly Catalog of United States Government Publications* United States. Superintendent of Documents,1978 February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications September issue includes List of depository libraries June and December issues include semiannual index Instrument Flying Handbook United States. Federal Aviation Administration,1971 *Advanced Aircraft Flight Performance* Antonio Filippone,2012-12-17 This book discusses aircraft flight performance focusing on commercial aircraft but also considering examples of high performance military aircraft The framework is a multidisciplinary engineering analysis fully supported by flight simulation with software validation at several levels The book covers topics such as geometrical configurations configuration aerodynamics and determination of aerodynamic derivatives weight engineering propulsion systems gas turbine engines and propellers aircraft trim flight envelopes mission analysis trajectory optimisation aircraft noise noise trajectories and analysis of environmental performance A unique feature of this book is the discussion and analysis of the environmental performance of the aircraft focusing on topics such as aircraft noise and carbon dioxide emissions **Manuals Combined: U.S. Army TECHNICAL MANUAL OPERATOR'S MANUAL FOR UH-60A HELICOPTER UH-60Q HELICOPTER UH-60L HELICOPTER EH-60A HELICOPTER** , BOTH MANUALS Approved for public release distribution unlimited DESCRIPTION This manual contains the complete operating instructions and procedures for UH 60A UH 60Q UH 60L and EH 60A helicopters The primary mission of this helicopter is that of tactical transport of troops medical evacuation cargo and reconnaissance within the capabilities of the helicopter The observance of limitations performance and weight and balance data provided is mandatory The observance of procedures is mandatory except when modification is required because of multiple emergencies adverse weather terrain etc Your flying experience is recognized and therefore basic flight principles are not included IT IS REQUIRED THAT THIS MANUAL BE CARRIED IN THE HELICOPTER AT ALL TIMES **Over 200 U.S. Department of Energy Manuals Combined: CLASSICAL PHYSICS; ELECTRICAL SCIENCE; THERMODYNAMICS, HEAT TRANSFER AND FLUID FUNDAMENTALS; INSTRUMENTATION AND CONTROL; MATHEMATICS; CHEMISTRY; ENGINEERING SYMBOLOGY; MATERIAL SCIENCE; MECHANICAL SCIENCE; AND NUCLEAR PHYSICS AND REACTOR THEORY** , Over 19 000 total pages Public Domain U S Government published manual Numerous illustrations and matrices Published in the 1990s and after 2000 TITLES and CONTENTS ELECTRICAL SCIENCES Contains the following manuals Electrical Science Vol 1 Electrical Science Vol 2 Electrical Science Vol 3 Electrical Science Vol 4 Thermodynamics Heat Transfer And Fluid Flow Vol 1 Thermodynamics Heat Transfer And Fluid Flow Vol 2 Thermodynamics Heat Transfer And Fluid Flow Vol 3 Instrumentation And Control Vol 1 Instrumentation And Control Vol 2 Mathematics Vol 1 Mathematics Vol 2 Chemistry Vol 1 Chemistry Vol 2 Engineering Symbolology Prints And Drawings Vol 1 Engineering Symbolology Prints And

Drawings Vol 2 Material Science Vol 1 Material Science Vol 2 Mechanical Science Vol 1 Mechanical Science Vol 2 Nuclear Physics And Reactor Theory Vol 1 Nuclear Physics And Reactor Theory Vol 2 CLASSICAL PHYSICS The Classical Physics Fundamentals includes information on the units used to measure physical properties vectors and how they are used to show the net effect of various forces Newton s Laws of motion and how to use these laws in force and motion applications and the concepts of energy work and power and how to measure and calculate the energy involved in various applications Scalar And Vector Quantities Vector Identification Vectors Resultants And Components Graphic Method Of Vector Addition Component Addition Method Analytical Method Of Vector Addition Newton s Laws Of Motion Momentum Principles Force And Weight Free Body Diagrams Force Equilibrium Types Of Force Energy And Work Law Of Conservation Of Energy Power ELECTRICAL SCIENCE The Electrical Science Fundamentals Handbook includes information on alternating current AC and direct current DC theory circuits motors and generators AC power and reactive components batteries AC and DC voltage regulators transformers and electrical test instruments and measuring devices Atom And Its Forces Electrical Terminology Units Of Electrical Measurement Methods Of Producing Voltage Electricity Magnetism Magnetic Circuits Electrical Symbols DC Sources DC Circuit Terminology Basic DC Circuit Calculations Voltage Polarity And Current Direction Kirchhoff s Laws DC Circuit Analysis DC Circuit Faults Inductance Capacitance Battery Terminology Battery Theory Battery Operations Types Of Batteries Battery Hazards DC Equipment Terminology DC Equipment Construction DC Generator Theory DC Generator Construction DC Motor Theory Types Of DC Motors DC Motor Operation AC Generation AC Generation Analysis Inductance Capacitance Impedance Resonance Power Triangle Three Phase Circuits AC Generator Components AC Generator Theory AC Generator Operation Voltage Regulators AC Motor Theory AC Motor Types Transformer Theory Transformer Types Meter Movements Voltmeters Ammeters Ohm Meters Wattmeters Other Electrical Measuring Devices Test Equipment System Components And Protection Devices Circuit Breakers Motor Controllers Wiring Schemes And Grounding THERMODYNAMICS HEAT TRANSFER AND FLUID FUNDAMENTALS The Thermodynamics Heat Transfer and Fluid Flow Fundamentals Handbook includes information on thermodynamics and the properties of fluids the three modes of heat transfer conduction convection and radiation and fluid flow and the energy relationships in fluid systems Thermodynamic Properties Temperature And Pressure Measurements Energy Work And Heat Thermodynamic Systems And Processes Change Of Phase Property Diagrams And Steam Tables First Law Of Thermodynamics Second Law Of Thermodynamics Compression Processes Heat Transfer Terminology Conduction Heat Transfer Convection Heat Transfer Radiant Heat Transfer Heat Exchangers Boiling Heat Transfer Heat Generation Decay Heat Continuity Equation Laminar And Turbulent Flow Bernoulli s Equation Head Loss Natural Circulation Two Phase Fluid Flow Centrifugal Pumps INSTRUMENTATION AND CONTROL The Instrumentation and Control Fundamentals Handbook includes information on temperature pressure flow and level detection systems position indication systems process control systems and radiation detection principles

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MATHEMATICS The Mathematics Fundamentals Handbook includes a review of introductory mathematics and the concepts and functional use of algebra geometry trigonometry and calculus Word problems equations calculations and practical exercises that require the use of each of the mathematical concepts are also presented Calculator Operations Four Basic Arithmetic Operations Averages Fractions Decimals Signed Numbers Significant Digits Percentages Exponents Scientific Notation Radicals Algebraic Laws Linear Equations Quadratic Equations Simultaneous Equations Word Problems Graphing Slopes Interpolation And Extrapolation Basic Concepts Of Geometry Shapes And Figures Of Plane Geometry Solid Geometric Figures Pythagorean Theorem Trigonometric Functions Radians Statistics Imaginary And Complex Numbers Matrices And Determinants Calculus

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for efficient airport management **Airport Emergency Plan** United States. Federal Aviation Administration,1989

Field Manual No.1-111: Aviation Brigades , **Aircraft Cabin Safety and Fire Survivability** United States. Congress.
House. Committee on Government Operations. Government Activities and Transportation Subcommittee,1991 FAA
Aviation News ,1993 **A Collection of Technical Papers** ,1981 *Aviation Maintenance Management* Frank H.
King,1986 This is a practical approach to and comprehensive examination of the problems that face the aviation supervisor
The first chapter discusses the impact of population and geographic changes on the regulation of the airline industry Chapter
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also explore real world advice on how to tackle in flight emergencies navigate abnormal situations and communicate effectively with air traffic control skills that go beyond the checkride and into everyday piloting What makes this guide stand out however is the holistic approach it takes toward pilot preparation Beyond the technical skills and required knowledge this book addresses the psychological and emotional side of being a pilot How do you manage pre checkride anxiety How do you handle the unexpected in the cockpit What strategies can you use to remain situationally aware avoid hazardous attitudes and make sound decisions in high pressure situations Drawing on the experience of seasoned pilots and aviation experts this guide provides tips and strategies that go beyond rote memorization and focus on making you a confident capable aviator With practical advice engaging explanations and a focus on real world application this is more than just a study guide it s your roadmap to mastering the checkride and becoming a pilot who s truly ready for the skies If you re ready to transform your aviation aspirations into reality this is the resource that will get you there ensuring that when checkride day arrives you ll be prepared to soar

Explosion-Resistant Buildings T. Bangash,2006-02-23 This excellent book highlights all aspects of the analysis and design of buildings subject to impact explosion and fire It is a definitive reference book and contains 10 chapters from a wide international prospective Three dimensional finite element and discrete element techniques are included They are applied to buildings such as the World Trade Center WTC Twin Towers and the Federal Building in Oklahoma on the basis of the designers drawings data and other information Many small case studies are also included The book has a comprehensive bibliography and a large appendix providing background analysis and computer subroutines of recently developed programs *Scientific and Technical Aerospace Reports* ,1989 **Department of Defense**

Appropriations for Fiscal Year ... United States. Congress. Senate. Committee on Appropriations,1955 **Crew**

Resource Management Training Norman MacLeod,2021-05-05 The book provides a data driven approach to real world crew resource management CRM applicable to commercial pilot performance It addresses the shift to a systems based resilience thinking that aims to understand how worker performance provides a buffer against failure This book will be the first to bring these ideas together Taking a competence based approach offers a more coherent relevant approach to CRM The book presents relevant real world examples of the concepts and outlines a change in thinking around pilot performance and data interpretation that is overdue Airlines pilots and aviation industry professionals will benefit from the insights into organisational design and alternative approaches to training **FEATURES** Approaches CRM from a competence based perspective Uses a systems model to bring coherence to CRM Includes a chapter on using blended learning and virtual reality to deliver CRM **Features** research on work life balance morale pilot fatigue and link to error Operationalises resilience engineering in a crew context **Department of Defense Appropriations for 1955** United States. Congress. Senate.

Committee on Appropriations,1954 **Managing Risk** Romney Beecher Duffey,John Walton Saull,2008-09-15 The human element is the principle cause of incidents and accidents in all technology industries hence it is evident that an

understanding of the interaction between humans and technology is crucial to the effective management of risk Despite this no tested model that explicitly and quantitatively includes the human element in risk prediction is currently available Managing Risk the Human Element combines descriptive and explanatory text with theoretical and mathematical analysis offering important new concepts that can be used to improve the management of risk trend analysis and prediction and hence affect the accident rate in technological industries It uses examples of major accidents to identify common causal factors or echoes and argues that the use of specific experience parameters for each particular industry is vital to achieving a minimum error rate as defined by mathematical prediction New ideas for the perception calculation and prediction of risk are introduced and safety management is covered in depth including for rare events and unknown outcomes Discusses applications to multiple industries including nuclear aviation medical shipping chemical industrial railway offshore oil and gas Shows consistency between learning for large systems and technologies with the psychological models of learning from error correction at the personal level Offers the expertise of key leading industry figures involved in safety work in the civil aviation and nuclear engineering industries Incorporates numerous fascinating case studies of key technological accidents Managing Risk the Human Element is an essential read for professional safety experts human reliability experts and engineers in all technological industries as well as risk analysts corporate managers and statistical analysts It is also of interest to professors researchers and postgraduate students of reliability and safety engineering and to experts in human performance congratulations on what appears to be at a high level of review a significant contribution to the literature I have found much to be admired in your research Mr Joseph Fragola Vice President of Valador Inc The book is not only technically informative but also attractive to all concerned readers and easy to be comprehended at various level of educational background It is truly an excellent book ever written for the safety risk managers and analysis professionals in the engineering community especially in the high reliability organizations Dr Feng Hsu Head of Risk Assessment and Management NASA Goddard Space Flight Center I admire your courage in confronting your theoretical ideas with such diverse ecologically valid data and your success in capturing a major trend in them I should add that I find all this quite inspiring The idea that you need to find the right measure of accumulated experience and not just routinely used calendar time makes so much sense that it comes as a shock to realize that this is a new idea Professor Stellan Ohlsson Professor of Psychology University of Illinois at Chicago

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