

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

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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

RM Cervero



Airbus Fuel Planning Manual:

Operator's Manual for Army Models C-12A, C-12C, and C-12D Aircraft, 1989 **Instrument Flying Handbook** United States. Federal Aviation Administration, 1971 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 **Airport Management** Mr. Rohit Manglik, 2023-09-23 Covers airport operations passenger handling security infrastructure and strategic planning for efficient airport management **Advanced Aircraft Flight Performance** Antonio Filippone, 2012-12-17 This unique book deals with the aeroplane at several levels and aims to simulate its flight performance using computer software *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 Symbology Prints And Drawings Vol 1 Engineering Symbology 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 Resistance Temperature Detectors Rtds Thermocouples Functional Uses Of Temperature Detectors Temperature Detection Circuitry Pressure Detectors Pressure Detector Functional Uses Pressure Detection Circuitry Level Detectors Density Compensation Level Detection Circuitry Head Flow Meters Other Flow Meters Steam Flow Detection Flow Circuitry Synchro Equipment Switches Variable Output Devices Position Indication Circuitry Radiation Detection Terminology Radiation Types Gas Filled Detector Detector Voltage Proportional Counter Proportional

Counter Circuitry Ionization Chamber Compensated Ion Chamber Electroscope Ionization Chamber Geiger Muller Detector Scintillation Counter Gamma Spectroscopy Miscellaneous Detectors Circuitry And Circuit Elements Source Range Nuclear Instrumentation Intermediate Range Nuclear Instrumentation Power Range Nuclear Instrumentation Principles Of Control Systems Control Loop Diagrams Two Position Control Systems Proportional Control Systems Reset Integral Control Systems Proportional Plus Reset Control Systems Proportional Plus Rate Control Systems Proportional Integral Derivative Control Systems Controllers Valve Actuators 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 CHEMISTRY The Chemistry Handbook includes information on the atomic structure of matter chemical bonding chemical equations chemical interactions involved with corrosion processes water chemistry control including the principles of water treatment the hazards of chemicals and gases and basic gaseous diffusion processes Characteristics Of Atoms The Periodic Table Chemical Bonding Chemical Equations Acids Bases Salts And Ph Converters Corrosion Theory General Corrosion Crud And Galvanic Corrosion Specialized Corrosion Effects Of Radiation On Water Chemistry Synthesis Chemistry Parameters Purpose Of Water Treatment Water Treatment Processes Dissolved Gases Suspended Solids And Ph Control Water Purity Corrosives Acids And Alkalies Toxic Compound Compressed Gases Flammable And Combustible Liquids ENGINEERING SYMBOLOGY The Engineering Symbology Prints and Drawings Handbook includes information on engineering fluid drawings and prints piping and instrument drawings major symbols and conventions electronic diagrams and schematics logic circuits and diagrams and fabrication construction and architectural drawings Introduction To Print Reading Introduction To The Types Of Drawings Views And Perspectives Engineering Fluids Diagrams And Prints Reading Engineering P neutron characteristics reactor theory and nuclear parameters and the theory of reactor operation Atomic Nature Of Matter Chart Of The Nuclides Mass Defect And Binding Energy Modes Of Radioactive Decay Radioactivity Neutron Interactions Nuclear Fission Energy Release From Fission Interaction Of Radiation With Matter Neutron Sources Nuclear Cross Sections And Neutron Flux Reaction Rates Neutron Moderation Prompt And Delayed Neutrons Neutron Flux Spectrum Neutron Life Cycle Reactivity Reactivity Coefficients Neutron Poisons Xenon Samarium And Other Fission Product Poisons Control Rods Subcritical Multiplication Reactor Kinetics Reactor **Aircraft Cabin Safety and Fire Survivability** United States. Congress. House. Committee on

Government Operations. Government Activities and Transportation Subcommittee,1991 **Airport Emergency Plan**
United States. Federal Aviation Administration,1989 **A Collection of Technical Papers** ,1981 Field Manual
No.1-111: Aviation Brigades , Aviation Maintenance Management Frank H. King,1986 This is a practical approach to and
com prehensive 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 2 deals with The Federal Aviation
Administration Chapter 3 with Regulatory Requirements and Chapter 4 with Organizational Struc tures Chapter 5
Management Re sponsibilities explores such practical aspects as directing programs leader ship providing motivation and
incen tives and communication Chapter 6 Aviation Maintenance Procedures Chapter 7 Applications of Aviation Maintenance
Concepts and Chapter 8 Budgeting Cost Controls and Cost Reduction also explore the daily problems of aviation supervision
in practical terms Chapter 9 Training and Professional Development in Aviation Maintenance contains a discussion of
certified avia tion maintenance technical schools Chapter 10 is an in depth assessment of Safety and Maintenance Discussed
here are safety in the maintenance hangar and on the ramp fueling aircraft electrical safety radiation concerns and building
requirements Chapter 11 Electronic Data Processing covers the computer and applications of received data Chapter 12
Aviation Maintenance Management Problem Areas deals with matters ranging from parts ordering to administrative
concerns The final chap ter is a Forecast and Summary **FAA Aviation News** ,1993 **Scientific and Technical**
Aerospace Reports ,1989 *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
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Engine Power-loss Accident Prevention United States. Federal Aviation Administration,1980 Federal Information Processing Standards Publication , **Approach** ,1987 **I Think and Write, Therefore You Are Confused** Vahid Paez,2021-08-02 The importance of good documentation can build a strong foundation for any thriving organization This reference text provides a detailed and practical treatment of technical writing in an easy to understand manner The text covers important topics including neuro linguistics programming NLP experimental writing against technical writing writing and unity of effect five elements of communication process human information processing nonverbal communication and types of technical manuals Aimed at professionals and graduate students working in the fields of ergonomics aerospace engineering aviation industry and human factors this book Provides a detailed and practical treatment of technical writing Discusses several personal anecdotes that serve as real work examples Explores communications techniques in a way that considers the psychology of what works Discusses in an easy to understand language stories and examples the correct steps to create technical documents **Resources in Education** ,1974

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