

A330

FLIGHT CREW OPERATING MANUAL



FLIGHT PREPARATION

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A330 Flight Crew Operating Manual

Great Britain: National Audit Office

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the text 'Great Britain: National Audit Office'.

A330 Flight Crew Operating Manual:

Airline Cabin Crew Training Manual Emmy Arsonval Maniriho, 2022-11-12 Working as cabin crew for international and domestic airlines is a stunning and challenging experience In addition to jetting off to exotic destinations the job also requires a high degree of responsibility and specialization to ensure the safety and comfort of passengers in line with civil aviation industry regulations It takes a lot of time determination and enthusiasm but cabin crew training is also a lot of fun This Airline cabin crew training manual provides with everything a cabin crew staff needs to know before during and after flying moment This manual gives an ideal approach on how to deal with cabin safety and airline services It is designed for the people who like to become an Airhostess and stewards Many young people opt for cabin crew as a full fledged career prospect because of the high salaries exciting experience of flying and interacting with different kinds of people on board and visiting several countries The liberation of Aviation industry in many countries has created a lot of job opportunities in airline and airport sector This Airline Cabin Crew Training Manual is meant to prepare airline professionals and students to handle the toughest moments in airlines and Airports

Advances in Aerospace Guidance, Navigation and Control Bogusław Dołęga, Robert Głębocki, Damian Kordos, Marcin Żugaj, 2017-12-15 The first three CEAS Council of European Aerospace Societies Specialist Conferences on Guidance Navigation and Control CEAS EuroGNC were held in Munich Germany in 2011 in Delft Netherlands in 2013 and in Toulouse France in 2017 The Warsaw University of Technology WUT and the Rzeszow University of Technology RzUT accepted the challenge of jointly organizing the 4th edition The conference aims to promote scientific and technical excellence in the fields of Guidance Navigation and Control GNC in aerospace and other fields of technology The Conference joins together the industry with the academia research This book covers four main topics Guidance and Control Control Theory Application Navigation UAV Control and Dynamic The papers included focus on the most advanced and actual topics in guidance navigation and control research areas Control theory analysis and design Novel navigation estimation and tracking methods Aircraft spacecraft missile and UAV guidance navigation and control Flight testing and experimental results Intelligent control in aerospace applications Aerospace robotics and unmanned autonomous systems Sensor systems for guidance navigation and control Guidance navigation and control concepts in air traffic control systems For the 4th CEAS Specialist Conference on Guidance Navigation and Control the International Technical Committee established a formal review process Each paper was reviewed in compliance with good journal practices by independent and anonymous reviewers At the end of the review process papers were selected for publication in this book

AIR CRASH INVESTIGATIONS, LOST OVER THE ATLANTIC The Crash of Air France Flight 447 THE FINAL REPORT George Cramoisi, editor, 2012-09-01 On 31 May 2009 the Airbus A330 flight AF 447 took off from Rio de Janeiro Gale o airport bound for Paris Charles de Gaulle At around 2 h 02 the Captain left the cockpit for a short nap At around 2 h 08 at flight level 350 the crew made a course change of 12 degrees to the left to avoid bad weather At 2h 10min 05 likely following the obstruction of the

Pitot probes by ice crystals the speed indications were incorrect and some automatic systems disconnected The aeroplane's flight path was not controlled by the two copilots They were rejoined 1 minute 30 later by the Captain while the aeroplane was in a stall situation that lasted until the impact with the sea at 2 h 14 min 28 s killing all 228 persons on board It took almost two years to recover the wreck of the aircraft from a depth of 4 000 metres The accident resulted from a succession of events such as inconsistency between the measured airspeeds inappropriate control inputs and the crew's failure to diagnose the stall situation

Air Crash Investigations: Running Out of Fuel, How Air Transat 236 Managed to Fly 100 Miles Without Fuel and Land Safely George Cramoisi, 2010-02-04

On August 24 2001 Air Transat Flight 236 an Airbus 330 was on its way from Toronto Canada to Lisbon Portugal with 306 people on board Above the Atlantic Ocean the crew noticed a dangerous fuel imbalance The crew changed the planned route for a landing at the Lajes Airport in the Azores At 06 13 the right engine flamed out At 06 26 the left engine also flamed out However after flying 100 miles without fuel the crew managed to land the aircraft at the Lajes Airport at 06 45 After the landing small fires started in the main gear wheels they were extinguished by the crash rescue response vehicles Only 16 passengers and 2 cabin crew members received injuries The aircraft suffered damage to the fuselage and to the main landing gear The investigation uncovered a large crack in the fuel line of the right engine it was caused by mistakes during an engine change just before the start of the flight

Federal Register, 2014-02 **Air Crash Investigations: Lost Over the Atlantic, the Mysterious Disappearance of Air France Flight 447** George Cramoisi, 2010-05-24

On 31 May 2009 flight AF447 an Airbus A330 200 took off from Rio de Janeiro bound for Paris At 2 h 10 a position message and some maintenance messages were transmitted by the ACARS automatic system After this nothing was heard of from the aircraft Six days later bodies and airplane parts were found by the French and Brazilian navies All 228 passengers and crew members on board are presumed to have perished in the accident A massive search by air and sea craft for the plane's black boxes failed so far

Facing the Unexpected in Flight Jean Pinet, 2015-10-28 Airline pilots often have to face sudden unexpected situations that can become potentially dangerous They are trained to deal with these situations but sometimes the lack of time before the situation deteriorates and the associated stress can compromise their basic cognitive sequence and lead to a serious incident or even an accident This book identifies common denominators in pilots' reactions to dangerous unexpected events and highlights behavior common to all in complex stressful situations *Facing the Unexpected in Flight* Human Limitations and Interaction with Technology attempts to clarify the human characteristics at play in stressful situations with the goal of providing a more solid basis for designing aeronautical operating equipment and shaping future automation The book applies an original cognitive analysis method to highlight actual operational behavior within a quick succession of short mental segments lasting less than one minute in all This rational method of assessing human potential should contribute to a more effective distribution of roles and help to optimize the pilot aircraft interface The current drive towards total automation together with the drone revolution and questions of

cost effectiveness within a global economy raises the question of whether there is a need for pilots onboard aircraft So after scientifically dissecting human limitations and advantages in terms of flying an aircraft the book concludes with reflections by the author on the possibility and implications of eliminating pilots from aircraft In this section the author sets aside scientific rigor and provides his sometimes subjective personal opinions on the professional future of airline pilots

Advanced Approach Light System Behrend, Ferdinand, 2017-08-25 The constant growth in aviation requires the introduction of new technologies in order to meet the demand for increasing capacity Especially the airport often represents the limiting factor Poor visibility conditions and an insufficiently equipped ground infrastructure regarding navigation facilities can lead to restrictions in maintaining the prevailing traffic flow especially during the approaches The conventional instrument landing system consists of numerous technical components which are causing expenses regarding maintenance and operation Smaller airports are often only partially or not at all equipped with the appropriate ground facilities This can bring air traffic to a total halt during certain visibility conditions New satellite based approach procedures offer the possibility to keep up air traffic even during poor visibility conditions regardless of the ground infrastructure required in the past These also offer now a barometric guidance or an augmented satellite signal for the vertical flight guidance component With the use of these approach procedures there is however the possibility of new faults and errors of the vertical flight guidance signal In a system based on electromagnetic radio waves a fault is angular meaning if the airplane gets nearer to the transmitter on ground the absolute possible failure of the target approach path gets smaller In a satellite based approach on the other hand it is constant during the whole approach The result can be a great deviation from the target approach path even just before reaching the runway threshold Often only after reaching the decision height and the herewith connected visual contact to corresponding ground features these faults can be recognized during poor visibility conditions close to the minima of a precision approach flight The larger the absolute error to the target approach path the more crucial it gets to initiate a missed approach procedure and therefore preventing a drop out of the relevant obstacle clearance limit Research has shown that through the currently present visual characteristics of the approach lighting system the actual position cannot be determined sufficiently regarding the runway threshold and the target approach path in order to estimate the decision height correctly The here presented Advanced Approach Light System is supposed to be an additional visual aid in order to support the cockpit crew in its decisions Therefore it should amount to improve the awareness of the situation regarding constant vertical faults The new navigation lighting system has been integrated into a flight simulator and was tested by licensed airline pilots within two test series with varying visibility conditions and decision heights Next to basic functionality operational usability in existing procedures of practical routines in the cockpit has been evaluated The results of the test series have demonstrated a significant improvement in identifying vertical faults with the support of the Advanced Approach Light System The decision to initiate a missed approach was made immediate and prompt and therefore the

airplane stayed within the obstacle clearance limit even in a low decision height In contrast the trial participants without the new system took reluctant and often far too late decisions which lead to a drop out of the obstacle clearance limit The Advanced Approach Lighting System has significantly improved the situation awareness for pilots in command in recognizing vertical faults when reaching the decision height The integration in existing work routines and its operative use happened flawlessly and was highly accepted by the trial participants Das stetige Wachstum in der Luftfahrt erfordert die Einf hrung neuer Technologien um der Nachfrage nach steigender Kapazit t gerecht zu werden Insbesondere das System Flughafen stellt hierbei oftmals den limitierenden Faktor dar Schlechte Sichtbedingungen und die unzureichende bodenseitige Ausr stung mit Navigationseinrichtungen k nnen f r Einschr nkungen in der Aufrechterhaltung des bestehenden Verkehrsflusses sorgen insbesondere bei Landeanfl gen Das konventionelle Instrumentenlandesystem besteht aus einer Vielzahl an technischer Komponenten die hohen Aufwand hinsichtlich Wartung und Betrieb verursachen Kleine Flugh fen sind oft nur teilweise oder gar nicht mit den entsprechenden Bodenkomponenten ausger stet so dass der Flugbetrieb bei bestimmten Sichtbedingungen vollst ndig eingestellt werden muss Neue satellitengest tzte Anflugverfahren bieten die M glichkeit den Flugbetrieb auch bei schlechten Sichtbedingungen aufrechtzuerhalten unabh ngig von der bisher notwendigen Bodeninfrastruktur Diese bieten mittlerweile ebenso eine auf der barometrischen H henmessung oder einem aufgewerteten Satellitensignal basierende vertikale Flugf hrungskomponente Allerdings besteht mit der Verwendung entsprechender Anflugverfahren auch eine neue m gliche Fehlercharakteristik des vertikalen Flugf hrungssignals Ist ein Fehler beim auf elektromagnetischen Funkwellen basierenden Instrumentenlandesystem winkelf rmig d h je n her sich das Luftfahrzeug dem Sender am Boden n hert umso kleiner wird die absolute Ablage zum Sollanflugweg ist dieser bei satellitengest tzten Anfl gen konstant ber den gesamten Endanflug Eine gro e Abweichung vom Sollanflugweg auch kurz vor Erreichen der Landebahnschwelle kann die Folge sein Bei schlechten Sichtbedingungen nahe den Minima eines Pr zisionsanfluges kann der Fehler oft erst bei Erreichen der Entscheidungsh he und dem damit verbundenen visuellen Kontakt zu entsprechenden Bodenmerkmalen erkannt werden Je gr er die Ablage zum Sollanflugweg umso entscheidender ist das unverz gliche Einleiten des Fehlanfluges um ein Verlassen der entsprechenden Hindernisfreibereiche zu verhindern Untersuchungen haben gezeigt dass die aktuell vorhandenen visuellen Merkmale der Anflugbefeuerung nicht ausreichend sein k nnen die tats chliche Position bez glich der Landebahnschwelle und des Sollanflugweges bei Erreichen der Entscheidungsh he einzusch tzen Das hier vorgestellte Advanced Approach Light System soll die Cockpitbesatzung als zus tzliches visuelles Merkmal bei der Entscheidung unterst tzen und so zur Verbesserung des Situationsbewusstseins hinsichtlich konstanter vertikaler Fehler beitragen Das neue Befeuerungssystem wurde in einen Flugsimulator integriert und innerhalb zweier Versuchsreihen mit unterschiedlichen Sichtbedingungen und Entscheidungsh hen von lizenzierten Verkehrspiloten getestet Dabei sollte neben der grunds tzlichen Funktionalit t auch die operative Einsetzbarkeit in den bestehenden Ablauf der Handlungsrouinen im

Cockpit untersucht werden Die Ergebnisse der Versuchsreihen haben eine erhebliche Verbesserung im Erkennen vertikaler Fehler mit Hilfe des Advanced Approach Light System aufgezeigt Die Entscheidung zum Einleiten des Fehlanflugs erfolgte direkt und unverzüglich wodurch das Luftfahrzeug auch bei sehr niedriger Entscheidungshöhe noch innerhalb des Hindernisfreibereiches blieb Im Gegensatz dazu wurde bei den Versuchsteilnehmern denen nicht das neue System zur Verfügung stand die Entscheidung eher zögerlich und oftmals viel zu spät getroffen was zu einem Verlassen des Hindernisfreibereiches führte Das Situationsbewusstsein der Luftfahrzeugführer zum Erkennen vertikaler Fehler beim Erreichen der Entscheidungshöhe wurde durch das Advanced Approach Light System wesentlich erhöht Die Integration in bestehende Arbeitsroutinen und der operative Einsatz erfolgten bei hoher Akzeptanz problemlos durch die Versuchsteilnehmer

Just Culture and the Criminalisation of Air Accidents Simon Daniels, 2024-12-30 Just Culture and the Criminalisation of Air Accidents equips the reader with the tools to understand the meaning of criminalisation in the civil aviation industry It enables them to resolve problems that arise in risk management within the context of their professional employment By examining the priorities of pilots air traffic controllers and prosecutors this book analyses the anatomy of criminalisation in civil aviation and works towards constructing solutions that protect the professionals human rights and the Just Culture concept within the framework of criminal law and practice It covers the duty of an air traffic controller to take the standard of care to guard against acts or omissions which might cause loss and give rise to a claim in negligence The book illustrates the critical features discussed with numerous case studies from States and jurisdictions around the world The book will benefit airline operators pilots air traffic controllers or managers and aviation business managers

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

Aircraft System Safety Duane Kritzing, 2016-09-12 Aircraft System Safety Assessments for Initial Airworthiness Certification presents a practical guide for the novice safety practitioner in the more specific area of assessing aircraft system failures to show compliance to regulations such as FAR25 1302 and 1309 A case study and safety strategy beginning in chapter two shows the reader how to bring safety assessment together in a logical and efficient manner Written to supplement not replace the content of the advisory material to these regulations e.g. AMC25 1309 as well as the main supporting reference standards e.g. SAE ARP 4761 RTCA DO 178 RTCA DO 154 this book

strives to amalgamate all these different documents into a consolidated strategy with simple process maps to aid in their understanding and optimise their efficient use Covers the effect of design manufacturing and maintenance errors and the effects of common component errors Evaluates the malfunctioning of multiple aircraft components and the interaction which various aircraft systems have on the ability of the aircraft to continue safe flight and landing Presents and defines a case study an aircraft modification program and a safety strategy in the second chapter after which each of the following chapters will explore the theory of the technique required and then apply the theory to the case study

Information Ergonomics Michael Stein, Peter Sandl, 2012-03-30 The variety and increasing availability of hypermedia information systems which are used in stationary applications like operators consoles as well as mobile systems e g driver information and navigation systems in automobiles form a foundation for the mediatization of the society From the human engineering point of view this development and the ensuing increased importance of information systems for economic and private needs require careful deliberation of the derivation and application of ergonomics methods particularly in the field of information systems This book consists of two closely intertwined parts The first theoretical part defines the concept of an information system followed by an explanation of action regulation as well as cognitive theories to describe man information system interaction A comprehensive description of information ergonomics concludes the theoretical approach In the second practically oriented part of this book authors from industry as well as from academic institutes illustrate the variety of current information systems taken from different fields of transportation i e aviation automotive and railroad The reader thus gains an overview of various applications and their context of use as well as similarities and differences in design This does not only include a description of the different information systems but also places them in the context of the theories and models which were presented in the first part of this book

Aircraft & Aerospace Asia-Pacific, 2005

Digital Avionics Handbook Cary R. Spitzer, Cary Spitzer, 2000-12-20 Avionics provide crews and passengers with an array of capabilities Cockpit crews can operate with fewer pilots greater efficiency and immediate critical information Passengers can enjoy the ultimate in in-flight entertainment live television and audio broadcasts and access to the Internet and e mail Since avionics are the among most ex

Digital Avionics Handbook, Third Edition Cary Spitzer, Uma Ferrell, Thomas Ferrell, 2014-09-03 A perennial bestseller the Digital Avionics Handbook offers a comprehensive view of avionics Complete with case studies of avionics architectures as well as examples of modern systems flying on current military and civil aircraft this Third Edition includes Ten brand new chapters covering new topics and emerging trends Significant restructuring to deliver a more coherent and cohesive story Updates to all existing chapters to reflect the latest software and technologies Featuring discussions of new data bus and display concepts involving retina scanning speech interaction and synthetic vision the Digital Avionics Handbook Third Edition provides practicing and aspiring electrical aerospace avionics and control systems engineers with a pragmatic look at the present state of the art of avionics

The World's Most Powerful Civilian Aircraft Paul E. Eden, 2016-12-15 The

World's Most Powerful Civilian Aircraft profiles many types from cargo transports and freighters through flying boats passenger airliners and business jets Featured aircraft include the Ford Trimotor Tin Goose one of the great workhorses of early aviation history the supersonic Tupolev Tu 144 Charger and Concorde Cold War competitors in aviation excellence and the most popular passenger aircraft of the present including the Boeing 747 and Airbus A380 Each entry includes a brief description of the model's development and history a profile view key features and specifications Packed with more than 200 artworks and photographs this is a colorful guide for the aviation enthusiast *The Major Projects Report 2012* Great Britain: National Audit Office, 2013-01-10 In respect of its largest defence projects there are early signs that the Ministry of Defence has begun to make realistic trade offs between cost time technical requirements and the amount of equipment to be purchased Nevertheless the continuing variances to cost and time show the MOD needs to do consistently better This report which gives a progress review of the 16 largest defence projects shows that in the last year there has been a total forecast slippage of 139 months and increase in costs of 468 million This means that since the projects were approved costs have increased by 6.6 billion around 12 per cent more than the planned cost and the projects have been delayed by 468 months taking almost a third longer than originally expected It would be unrealistic to expect MOD and industry to identify every risk at the start of technically challenging projects However the continuing problems indicate that MOD has more to learn from historic The MOD is accepting the capability risk and some wider costs resulting from these project delays and is having to make difficult decisions about long term capabilities The MOD has made a significant investment in new and upgraded helicopters to address the shortfall identified in the NAO's 2004 report The MOD has also spent 787 million on air transport and air to air refuelling aircraft to support current operations and address capability gaps such as those caused by the previously reported delays to the A400M transport aircraft However capability gaps remain Organizational Resilience D. Christopher Kayes, 2015 In the age of knowledge organizations survive and thrive only when they learn All too often when organizations are confronted with novel or changing situations the process of learning breaks down and the result is catastrophic In *Organizational Resilience How Learning Sustains Organizations in Crisis* Disaster and Breakdown D. Christopher Kayes explains why all organizational leaders should be concerned about learning and the dire consequences that may ensue if they are not Kayes draws on the foundational ideas of philosopher John Dewey then connects this philosophy to contemporary studies on learning management and organizations Through a wide range of examples from the realms of government finance engineering healthcare and commercial air travel he describes how learning can help organizations weather crises and outlines specific ways that leaders can learn from their experience The first comprehensive review of how learning sustains organizations in challenging times *Organizational Resilience* is essential reading for crisis managers disaster recovery team leaders continuity of operations planning professionals emergency management professionals and leaders at all levels who want their organizations to thrive **Written In the Sky** Mark Carr, 2020-07-29

Since childhood Mark Carr wanted to fly and fly he did firstly as a naval aviator a jet instructor and later pilot with Cathay Pacific Airways This techno biography is written for those who like him seemingly have hydraulic oil flowing through their veins The book also gives readers of a non flying background an insight into military and civil aviation Sit in the cockpit with Mark and gain a rare insight into how these amazing machines work and how the men and women in the cockpits and flight decks operate them safely and efficiently His story is also entwined with historical context including his first hand account of the infamous Australian Pilots Dispute of 1989 and life as an expatriate in Hong Kong

nxControl: Ein Beitrag zum reglergestützten manuellen Fliegen Schreiter, Karolin, 2020-02-11 In der vorliegenden Arbeit wird die Entwicklung des Vorgabereglers nxControl für das longitudinale Lastvielfache nx zur effektiven Unterstützung des manuellen Fliegens von Verkehrsflugzeugen beschrieben Das Lastvielfache nx ist äquivalent zum Gesamtenergiewinkel und damit zur spezifischen zeitlichen Änderung der Gesamtenergie des Flugzeugs Das Lastvielfache ist direkt proportional zur Differenz zwischen Schub und Widerstandskraft und steuerbar über Triebwerksschub Bremsklappen und Radbremsen Der Vorgaberegler ersetzt die konventionelle manuelle Steuerung dieser Stellgrößen Bislang werden Vorgaberegler nur zur Unterstützung der manuellen Steuerung der Fluglage mit den aerodynamischen Stellflächen eingesetzt Der nx Vorgaberegler vervollständigt die elektronischen Flugsteuerungsfunktionen im Cockpit Zusammen mit einer angepassten Mensch Maschine Schnittstelle wird direktes Kommando und präzises Einstellen der physikalischen Flugzeugreaktion möglich ohne dass Piloten die Wirkung der Stellgrößen berücksichtigen müssen So können Piloten präziser und gleichzeitig mit weniger Arbeitsaufwand manuell fliegen Die Entwicklung des nx Vorgabereglers teilt sich in die drei Phasen Analyse Auslegung und Evaluation Da das System menschliche Operateure unterstützt wurden Verkehrspiloten als potentielle Nutzer in alle Entwicklungsschritte eingebunden Die Analyse konzentriert sich sowohl auf die flugmechanischen und operationellen Aspekte als auch auf die menschlichen Aspekte bei der manuellen Steuerung des Energiehaushalts Ausgehend von den ermittelten Handlungsmodellen der Piloten als auch den flugdynamischen Zusammenhängen werden Anforderungen an das Regelungssystem für die Auslegung aufgestellt In umfangreichen Flugsimulatorstudien mit Verkehrspiloten wird in unterschiedlichen repräsentativen Szenarien der Einfluss des nx Vorgabereglers auf Flugpräzision Arbeitsbeanspruchung Situationsbewusstsein Handhabung Akzeptanz und Sicherheit untersucht Die Ergebnisse zeigen dass das entwickelte Regelungssystem für die Piloten eine intuitiv nutzbare Unterstützung des manuellen Fliegens darstellt welche es ermöglicht anspruchsvolle Trajektorien präziser und mit weniger Arbeitslast als konventionell zu fliegen Es ist in allen Flugphasen einsetzbar und unterstützt den Piloten auch in kritischen Fällen wie zum Beispiel Triebwerksausfällen Durch die erhöhte Präzision bei komplexen Trajektorien im manuellen Flug ist es möglich Stafflungsverfahren und Flugroutenplanungen zu optimieren und zu verengen Damit wird der Luftraum besser ausgenutzt und die Kapazität steigt Gleichzeitig kann häufiger im gleichen Betrieb manuell geflogen werden da der Arbeitsaufwand geringer ist Bei einem Rückfall auf konventionelle Steuerung bleiben durch das häufigere Training und die

hnlichen Handlungsabl ufe die grundlegenden Flugfertigkeiten abrufbar Dies erh ht die Sicherheit im zuk nftigen Luftverkehr This dissertation describes the development of the command controller nxControl for the longitudinal load factor nx for the effective support of manual flying The load factor nx is equivalent to the total energy angle and thus to the specific temporal change of the total energy of the aircraft The load factor is directly proportional to the difference between thrust and drag and can be controlled by engine thrust airbrakes and wheel brakes The command controller replaces the conventional manual control of these effectors Up to now command controllers have only been used to support the manual control of the flight attitude with the aerodynamic control surfaces The nx command controller completes the electronic flight control functions in the cockpit Together with an adapted human machine interface it enables direct command and precise adjustment of the physical aircraft response without the pilots having to consider the effect of the effectors This allows pilots to fly more precisely and at the same time with less manual effort The development is divided into three phases analysis design and evaluation of the control system Since the system provides support for human operators airline pilots are involved in all development steps as potential users The analysis focuses on the flight mechanical and operational aspects as well as on the human aspects of the manual energy management Based on the determined action models of the pilots as well as the flight dynamic relationships requirements for the control system will be established and incorporated into the design In extensive flight simulator studies with commercial pilots the influence of the nx command controller on flight precision workload situation awareness handling acceptance and safety is investigated in various representative scenarios The results show that the developed control system provides pilots with intuitive support for manual flying which enables them to fly demanding trajectories more precisely and with less workload than conventional It can be used in all flight phases and supports the pilots even in critical cases such as engine failures Due to the increased precision at complex trajectories in manual flight it is possible to optimize and narrow separation procedures and flight route planning This allows more efficient use of airspace and increases capacity At the same time it is possible to fly manually more frequently in daily operations as the workload is lower In the event of a switch back to conventional control the more frequent training and similar procedures mean that the basic flight skills can still be called up This increases safety in future air traffic

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