

C 130 Aircraft Systems Overview Ep Guide

We performed this audit in response to allegations to the Defense Hotline concerning the Defense Contract Management Agency's oversight of Lockheed Martin's performance on the C-130, F-22, and C-5 aircraft. This is the third in a series of three reports concerning the allegations. This report addresses the allegation that the C-130J aircraft does not meet contract specifications and therefore cannot perform its operational mission. The primary mission of the C-130J remains unchanged from the existing C-130 fleet. The C-130J performs the intratheater portion of the airlift mission and is a platform for dropping troops and equipment into hostile areas. The C-130J aircraft is a medium-range, tactical aircraft and is the newest upgrade to the C-130 fleet. Enhancements include a modern glass cockpit with digital avionics, an improved electrical system, new engines and propellers, and an enhanced cargo handling and delivery system. In addition, the C-130J aircraft requires only a three-person flight crew instead of the five-person flight crew that the previous H-version required. Lockheed Martin, the manufacturer, discontinued production of the H version in 1997 and promoted the C-130J as a commercial aircraft.

Lockheed Martin (NYSE: LMT) is an American global aerospace, defense,

security, and advanced technology company with worldwide interests. It was formed by the merger of Lockheed Corporation with Martin Marietta in March 1995. It is headquartered in Bethesda, Maryland, in the Washington Metropolitan Area. Lockheed Martin employs 123,000 people worldwide. Robert J. Stevens is the current Chairman and Chief Executive Officer. Lockheed Martin is one of the world's largest defense contractors; In 2009, 74% of Lockheed Martin's revenues came from military sales. It received 7.1% of the funds paid out by the Pentagon. Lockheed Martin operates in four business segments. These comprise, with respective percentages of 2009 total net sales of \$45.2 billion, Aeronautics (27%), Electronic Systems (27%), Information Systems & Global Solutions (27%), and Space Systems (19%). In 2009 US Government contracts accounted for \$38.4 billion (85%), foreign government contracts \$5.8 billion (13%), and commercial and other contracts for \$900 million (2%). In both 2009 and 2008 the company topped the list of US Federal Contractors. The company has received the Collier Trophy six times. Most recently (in 2001) for being part of developing the X-35/F-35B LiftFan Propulsion System, and again in 2006 for leading the team that developed the F-22 Raptor fighter jet. Lockheed Martin is currently developing the F-35 Lightning II. Merger talks between Lockheed Corporation and Martin Marietta began in March 1994, with the companies announcing their

\$10 billion planned merger on August 30, 1994. The deal was finalized on March 15, 1995 when the two companies' shareholders approved the merger. The segments of the two companies not retained by the new company formed the basis for the present L-3 Communications, a mid-size defense contractor in its own right. Lockheed Martin later spun off the materials company Martin Marietta Materials. Both companies contributed important products to the new portfolio.

Environmental Impact Statement

Some Health Hazards Involved in Its Maintenance

Proceedings and Debates of the ... Congress

Germany 2013

Stationing and Training of Increased Aviation Assets Within U.S. Army Alaska

Scientific and Technical Aerospace Reports

Discusses the history of the C-130 Hercules transport plane and its use in military campaigns as well as civilian missions, such as studying weather, controlling fires, and supporting researchers in Antarctica.

A Service Life Analysis of Coast Guard C-130 Aircraft

The C-130 Hercules Aircraft Fuel System: -

C-130 Hercules

C-130 Training Manual

USAF Formal Schools

Strategic Airlift Gap Has Been Addressed, But Tactical Airlift Plan are Evolving as Key Issues Have Not Been Resolved

The U.S. Coast Guard is facing a dramatic transformation of its forces to meet current and future service requirements. Responding to this transformation, the Coast Guard has initiated the Deepwater System, a complete review of the offshore mission requirements and the modernization of its infrastructure. Deepwater will review and modernize the Coast Guard's aviation assets, improving aircraft systems, airborne sensors, and communications and information management systems. However, these capability advancements will take time and money to implement, and will require careful management of the current resources. One of the oldest and most versatile Coast Guard aircraft is the C-130. Service life decisions regarding the C-130 are complicated by aging aircraft issues, and the introduction of the C-130. It will be difficult for Coast Guard decision makers to select how program funding should be executed within the C-130 fleet. This study examines how long the current airframes can safely remain in service, how much the remaining service life will cost, and what level of availability can be realized for the rest of the service life. Answering these questions, it will then be possible to perform an insightful analysis of alternatives for modernizing, sustaining,

and if necessary retiring the C-130s.

*Three Air Force documents provide unique information about USAF operations of this aircraft. Contents: C-130 Operations Procedures * C-130 Aircrew Evaluation Criteria * C-130 Aircrew Training * Bonus: Air Force Culture / Doctrine Instruction / Policy Directive Chapter 1 * GENERAL INFORMATION * 1.1. General * 1.2. Applicability * 1.3. Key Words Explained * 1.4. Deviations and Waivers * 1.5. Supplemental Procedures * 1.6. Local Supplement Coordination Process * 1.7. Improvement Recommendations * 1.8. Definitions * 1.9. Aircrew Operational Reports * Chapter 2 * COMMAND AND CONTROL * 2.1. General * 2.2. Execution Authority * 2.3. Pilot in Command (PIC) Responsibility and Authority * 2.4. Mission Clearance Decision * 2.5. Operational C2 Reporting * 2.6. Mission Commander (MC) * 2.7. C2 Agency Telephone Numbers * 2.8. Close Watch Missions * 2.9. Law Enforcement Support * 2.10. Enroute Maintenance Support * Chapter 3 * AIRCREW COMPLEMENT/MANAGEMENT * 3.1. General * 3.2. Aircrew Complement * 3.3. Aircrew Member Qualification * 3.4. Pilots * 3.5. Navigators * 3.6. Flight Engineers, and Loadmasters * 3.7. Aircrew Management * 3.8. Scheduling Restrictions * 3.9. Fatigue Countermeasures Management Program * 3.10. Crew Rest/Enroute Ground Time * 3.11. Alerting Procedures * 3.12. Stage Management * 3.13. Standby Force Duty * 3.14. Orientation Flights and Incentive Flights * 3.15. Interfly * 3.16. Mission Essential Personnel (MEP)*

*** 3.17. Mission Mobility Observers (MMO) * 3.18. Flight Attendants on Distinguished Visitor Missions * Chapter 4 * AIRCRAFT OPERATING RESTRICTIONS * 4.1. Objective * 4.2. Minimum Equipment List (MEL) Policy * 4.3. Waiver Protocol * 4.4. Technical Assistance * 4.5. MEL Table Definitions/Column Identifiers * 4.6. C-130 MEL * 4.7. Supplements * 4.8. Navigation Systems * 4.9. Gear Down Flight Operations * 4.10. Minimum Equipment for NVG Operations * Chapter 5 * OPERATIONAL PROCEDURES * 5.1. Checklists * 5.2. Duty Station * 5.3. Flight Station Entry * 5.4. Takeoff and Landing Policy * 5.5. Landing Gear and Flap Operating Policy * 5.6. Outside Observer Duties * 5.7. Seat Belts * 5.8. Aircraft Lighting * 5.9. Portable Electronic Devices * 5.10. Tobacco Use on Air Force Aircraft * 5.11. Advisory Calls * 5.12. Stabilized Approach * 5.13. Communications Policy * 5.14. Crew Resource Management (CRM)/Threat and Error Management * 5.15. Use of Automation * 5.16. Transportation of Pets * 5.17. Alcoholic Beverages * 5.18. Runway, Taxiway, and Airfield Requirements * 5.19. Aircraft Taxi and Taxi Obstruction Clearance Criteria and Foreign Object Damage (FOD) Avoidance * 5.20. Fuel Jettison Procedures * 5.21. Aircraft Speed * 5.22. Bird/Wildlife Aircraft Strike Hazard (BASH) Programs * 5.23. Functional Check Flights (FCFs), Acceptance Check Flights (ACFs) and Operational Check Flights (OCFs) * 5.24. Participation in Aerial Events * 5.25. Traffic Alerting and Collision Avoidance System (TCAS) * 5.26. Radar Altimeter * 5.27. Buddy and**

*Windmill Taxi Starts * 5.28. Reduced Power Operations (N/A for 3 Engine Operations)
* 5.29. Aircraft Recovery from Unprepared Surfaces * 5.30. Hand-held (HH) GPS for
Laptops with Moving Map Display (MMD) * 5.31. Aircrew Fatigue * 5.32. Aviation
Safety Action Program (ASAP) * Chapter 6 * AIRCREW PROCEDURES * Section
6A--Pre-Mission * 6.1. Aircrew Uniform * 6.2. Personal Requirements * 6.3. Pre-
Mission Actions * 6.4. Aircrew Publications Requirements * 6.5. Airfield Review * 6.6.
Aircrew Intelligence Briefing * Section 6B--Predeparture * 6.7. Global Decision
Scheduling System Account * 6.8. Flight Crew Information File (FCIF) * 6.9. Flight
Crew Bulletins (FCB) * 6.10. Mission Kits * 6.11. Route Navigation Kits * 6.12.
Briefing Requirements * 6.13. Call Signs * 6.14. Instrument Flight Rules * 6.15. Flight
Plan/Data Verification * 6.16. Departure Planning * 6.17. Weather Minimums for
Takeoff * 6.18. Alternate Planning * 6.19. Departure Alternates * 6.20. Destination
Requirements * much more*

Defense Acquisitions

Hearings, Reports and Prints of the Senate Committee on Armed Services

Navy enlisted classifications

A History

Department of Defense Authorization for Appropriations for Fiscal Year 2008

Introduction to Unmanned Aircraft Systems

A highly illustrated celebration of fifty years of the Hercules in service with the Royal Air Force.

An assessment of potential environmental impacts on a proposal to expand and reorganize aviation assets (more helicopters and soldiers) at Fort Wainwright in Fairbanks, Alaska. Alternative locations considered include Fort Richardson in Anchorage and Eielson Air Force Base near Fairbanks. Training missions would be conducted on all U.S. Army Alaska lands including the Donnelly, Tanana Flats, Yukon, Gerstle River, and Black Rapids training areas.

**Air Force Regulation. Training. USAF Formal Schools
Lockheed Martin Color**

The C-130 Hercules

Community College of the Air Force General Catalog

The MAC Flyer

C-130 E/H Handbook

The Dept. of Defense (DoD) used nearly 700 aircraft, as well as commercial and leased aircraft, to carry about three million troops and 800,000 tons of cargo in support of wartime, peacetime, and humanitarian efforts in 2008. C-5s and C-17s move troops and cargo

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internationally (strategic airlift) and C-130s are the primary aircraft that moves them within a theater of operation (tactical airlift). Over the next four years, DoD plans to spend about \$12 billion to modernize and procure airlifters and is currently studying how many it needs. This report: (1) identifies the status of DoD's modernization and acquisition efforts; and (2) determines how well DoD is addressing any capability gaps and redundancies. Includes recommendations. Charts and tables.

Some vols. include supplemental journals of "such proceedings of the sessions, as, during the time they were depending, were ordered to be kept secret, and respecting which the injunction of secrecy was afterwards taken off by the order of the House".

Manual of Navy Enlisted Classifications

Acquisition: Contracting for and Performance of the C-130 Aircraft

Department of Defense Appropriations for Fiscal Year 1973

Military Review

Congressional Record

A Service Life Analysis of Coast Guard C-130 Aircraft

"An engaging retrospective on the long-lived and ubiquitous C-130 Hercules tactical airlifter . . . Sweeping in its scope . . . an invaluable reference." —Aviation History
Designed in response to a 1951 requirement, the C-130 Hercules is the most successful military airlifter ever built. Since it first flew in prototype form on August 23, 1954, more than 2,100 have been produced in over eighty different versions. Across its variants, the Hercules serves more than sixty air forces, as well as many civilian cargo operators, in a multiplicity of roles, including air-to-air refueller, gunship, airborne command post, flying hospital, and

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firefighter. This rugged and easily maintained aircraft entered service in 1956 with the USAF Tactical Air Command. Ten years later, the “Charlie 130” was providing essential logistical support in Vietnam. This period in Southeast Asia was the Hercules’ finest hour. Paradrops, airlift, and evacuation operations were completed around the clock, often at low level, usually under fire and nearly always in bad weather. A generation later, this “Mr. Dependable” was serving with equal distinction in the Gulf War in the role of airlifter, radio-countermeasures, and “psy-ops” platform, gunship and, once again, “block-buster bomber.” The “Herky Bird” or “Fat Albert,” as the C-130 is fondly known, has proved a key component in humanitarian relief operations, as well, in all parts of the world. “Martin’s technical and informative look at their creation and use is absolutely fascinating. An iconic aircraft gets Martin’s VIP treatment in this wonderful book.” —Books Monthly “A history of an aviation great, from the pen of a popular and well-established author of aviation history.”

—Firetrench

Introduction to Unmanned Aircraft Systems surveys the fundamentals of unmanned aircraft system (UAS) operations, from sensors, controls, and automation to regulations, safety procedures, and human factors. It is designed for the student or layperson and thus assumes no prior knowledge of UASs, engineering, or aeronautics. Dynamic and well-illustrated, the first edition of this popular primer was created in response to a need for a suitable university-level textbook on the subject. Fully updated and significantly expanded, this new Second Edition: Reflects the proliferation of technological capability, miniaturization, and demand for aerial intelligence in a post-9/11 world Presents the latest major commercial uses of UASs and unmanned aerial vehicles (UAVs) Enhances its coverage

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with greater depth and support for more advanced coursework Provides material appropriate for introductory UAS coursework in both aviation and aerospace engineering programs Introduction to Unmanned Aircraft Systems, Second Edition capitalizes on the expertise of contributing authors to instill a practical, up-to-date understanding of what it takes to safely operate UASs in the National Airspace System (NAS). Complete with end-of-chapter discussion questions, this book makes an ideal textbook for a first course in UAS operations.

National Defense Authorization Act for Fiscal Year 2014

U.S. Defense Contractors' Training of Foreign Military Forces

Aircraft Systems Classifications

Hearings Before the Subcommittee on African Affairs of the Committee on Foreign Relations, United States Senate, Ninety-fourth Congress, Second Session ... August 4, 5, and 6, 1976

Hearings Before the Committee on Armed Services, United States Senate, One Hundred Tenth Congress, First Session, on S. 1547, to Authorize Appropriations for Fiscal Year 2008 for Military Activities of the Department of Defense, for Military Construction, and for Defense Activities of the Department of Energy, to Prescribe Personnel Strengths for Such Fiscal Year for the Armed Forces, and for Other Purposes

Hydraulic systems and flight controls. Book six

Aircraft Systems Classifications Enables aerospace professionals to quickly and accurately reference key information about all types of aircraft systems Aircraft Systems Classifications: A Handbook of Characteristics and Design Guidelines provides comprehensive information on

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aircraft systems delivered in a concise, direct, and standardized way, allowing readers to easily find the information they need. The book presents a full set of characteristics and requirements for all types of aircraft systems, including avionics, mission, and supporting ground systems, in a single volume. Readers can delve further into specific topics by referencing the detailed glossary and bibliography. To aid in reader comprehension, each aircraft system is broken down according to various criteria, such as: Purpose, description, and safety Integration with other systems Key interfaces and design drivers Modeling and simulation Best practices and future trends Written for aerospace professionals, researchers, and advanced students with some existing knowledge of the aircraft industry, this book allows readers to quickly reference information on every aspect of aircraft systems.

Hearings Before a Subcommittee of the Committee on Appropriations, United States Senate, Ninety-second Congress, Second Session, on H. R. [16593] ..

Report of the Committee on Armed Services, House of Representatives, on H.R. 1960, Together with Additional and Dissenting Views (including Cost Estimate of the Congressional Budget Office).

Intratheater airlift information on the Air Force's C130 aircraft : report to the Honorable John McCain, U.S. Senate

Journal of the House of Representatives of the United States

Commerce Business Daily

NATIONAL DEFENSE AUTHORIZATION ACT FOR FISCAL YEAR 2013, MAY 11, 2012,

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112-2 HOUSE REPORT 112-479