

Airborne Radar Approach Helicopter Flight Test Program

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Airborne Radar Approach Helicopter Flight

A joint NASA/FAA helicopter flight test program was carried out between June 1978 and September 1978 in the Gulf of Mexico to investigate airborne weather/mapping radar as an offshore approach system. The objectives of the test were to: 1. Develop airborne radar approach (ARA) procedures. 2. Determine weather minimums. 3. Determine pilot ...

AIRBORNE RADAR APPROACH HELICOPTER FLIGHT TEST PROGRAM

Flight Safety; Instrument Flight; Airborne Radar Approaches. When an instrument pilot talks about a "radar approach" he usually means one that's guided by a ground controller using ASR or PAR equipment. But believe it or not, military aircrews have been known to make instrument approaches using their aircraft radar to find the runway.

Airborne Radar Approaches - AVweb

Offshore Standard Approach Procedures (OSAP), Airborne Radar Approaches (ARA), and Helicopter En Route Descent Areas (HEDA). This AC retains the ARA, parallel offset OSAP, Delta 30° OSAP and the HEDA along with Global Positioning System (GPS) navigation for the OSAP and HEDA operations contained in AC 90-80B. Approvals issued to U.S. operators may

Advisory - Federal Aviation Administration

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Airborne Radar Approach Helicopter Flight Test Program

A flight test series investigating the airbrne radar approach (ARA) for helicopters is discussed. Passive and active target enhancement methods and their relative merits are examined. A description of systems and methods involved in the ARA are presented along with subjective in-ights ant] con 'lusio'ns.

F AD NATIONAL AVIATIOIN FACILITIES EXPERIMENTAL CENTER ...

Airborne weather radar (WX) in the ground mapping mode is used to maintain separation from obstacles. This operation allows helicopters to make

Access Free Airborne Radar Approach Helicopter Flight Test Program

an instrument flight rules (IFR) en route descent to a radar altitude of 200 feet (ft) (OSAP and ARA) and 400 ft (HEDA) within a specified area of operation that is clear of obstructions.

VOLUME 3 GENERAL TECHNICAL ADMINISTRATION CHAPTER 18 ...

Helicopter Flight Control Systems. ... (HEDA) approach, or an Airborne Radar Approach (ARA). For more information on these helicopter instrument procedures, refer to FAA AC 90-80B, Approval of Offshore Standard Approach Procedures, Airborne Radar Approaches, and Helicopter En Route Descent Areas, ...

FAR/AIM: Section 1. Helicopter IFR Operations

AC 90-80B, Approval of Offshore Standard Approach Procedures, Airborne Radar Approaches, and Helicopter En Route Descent Areas, dated April 12, 1999, is canceled. 1.5 Explanation of Changes. This AC retains the OSAP, ARA, and HEDA that were in AC 90-80B. It updates the approval and maintenance procedures for an operator to obtain

AC 90-80C - Approval of Offshore Standard Approach ...

conducted a helicopter flight test program in the Gulf of Mexico to evaluate the feasibility of using airborne weather radar in the mapping mode as an approach system for offshore drilling platforms. In September 1984, the FAA conducted further testing in the Gulf of Mexico. In these later tests, airborne weather radar

Advisory - Federal Aviation Administration

Flight OPERATIONS CONTROLS ... 7.6: Airborne Radar Approach (ARA) Requirements ... Helicopter/Ship Operations Visual Flight Rules (VFR) Fuel Reserves Offshore Alternates Refueling System Inspection Drummed Fuel Parking Apron Passenger Control Ground Procedures

Offshore Helicopter Operations Implementation Guidelines

SUBJECT: HIBERNIA HELICOPTER PROCEDURES OFFSHORE - GPS AIRBORNE RADAR APPROACHES AUTHORIZATION. 1. This operations specification issued pursuant to the subparagraph(s) of the Canadian Aviation Regulations referred to in section 3 of this operations specification, authorizes the use of the Hibernia Helicopter Procedures Offshore GPS/Airborne Radar Approach(es) (GPS/ARA) referred to in section 4 ...

Operations Specification 601

The flight test objectives were to develop airborne radar approach procedures, measure tracking errors, determine acceptable weather minimums, and determine pilot acceptability. Data obtained will contribute significantly to improved helicopter airborne radar approach capability and to the support of exploration, development, and utilization of the Nation's offshore oil supplies

Flight investigation of helicopter IFR approaches to oil ...

A flight test series investigating the airborne radar approach (ARA) for helicopters is discussed. Passive and active target enhancement methods and their relative merits are examined. A description of systems and methods involved in the ARA are presented along with subjective insights and conclusions. It is concluded that the ARA is a practical approach aid in the absence of conventional ...

Airborne Radar Approach - Google Books

There are over 4,000 possible offshore landing sites. Upon reaching the waypoint prior to the destination, the pilot may execute an Offshore Standard Approach Procedure (OSAP), a Helicopter En Route Descent Areas (HEDA) approach, or an Airborne Radar Approach (ARA).

Chapter 10. Helicopter Operations - tfmlearning.faa.gov

Helicopters Tiltrotor Commercial Military Newsletter GRIFO-346 Multimode, multi-role X-Band airborne radar featuring further advanced capabilities. GRIFO-S Fourth-generation of X-band coherent pulse-doppler multimode fire-control radar, with over 100,000 flight hours.

Airborne Radars - Leonardo - Aerospace, Defence and Security

Minimum operational performance standards are presented for airborne radar approach systems based on operational requirements of helicopters in the approach, missed approach, and departure modes, particularly during instrument flight rules, instrument meteorological conditions and at night. Included are those system characteristics pertinent to the airborne equipment and to the ground-based ...

Minimum operational performance standards for airborne ...

Flight tests of IFR landing approach systems for helicopters Joint NASA/FAA helicopter flight tests were conducted to investigate airborne radar approaches (ARA) and microwave landing system (MLS) approaches. Flight-test results were utilized to prove NASA with a data base to be used as a performance measure for advanced guidance and navigation concepts, and to provide FAA with data for ...

NASA Technical Reports Server (NTRS)

Appendix D. Sample OpSpec H104, Helicopter Offshore Instrument Operation: Offshore Standard Approach Procedure (OSAP), Airborne Radar Approach (ARA), and Helicopter En Route Descent Area (HEDA) Operations: 14 CFR Part 121/135 a.

1. Purpose of This Notice. - Flight Standards Information ...

Airborne Radar Approach (ARA) A procedure used by helicopters for low-visibility offshore approaches to offshore platforms which relies upon an aircraft's on-board weather radar for guidance and as a means of detecting obstacles in the approach path. Commitment A term used interchangeably with mitigation. Commitments are embedded

Hornsea Project Four: Preliminary Environmental ...

This approach uses definable attributes of a helicopter rotor assembly and its extended Doppler rotor return to differentiate "rotor samples" from other samples (steps 123, 125), extract features such as bandwidth, activity, angle, and shape from the rotor samples (step 127), and classify a potential target as a helicopter or other based on the extracted rotor features and the known ...

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