

MASPS for ADS-B Rev. A

Tracking Information (committee secretary only)	
Change Issue Number	38
Submission Date	5/14/01
Status (open/closed/deferred)	OPEN
Last Action Date	8/30/01

Short Title for Change Issue:	Definitive criteria is needed for determination of whether an aircraft is airborne or on the ground
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MASPS Document Reference:		Originator Information:	
Entire document (y/n)		Name	Gary Livack / FAA
Section number(s)		Phone	(202) 267-7954
Paragraph number(s)		E-mail	Garret.livack@faa.gov
Table/Figure number(s)		Other	livack@worldnet.att.net

Proposed Rationale for Consideration (originator should check all that apply):	
<input type="checkbox"/>	Item needed to support of near-term MASPS/MOPS development
<input type="checkbox"/>	DO-260/ED-102 1090 MHz Link MOPS Rev A
<input type="checkbox"/>	ASA MASPS
<input type="checkbox"/>	TIS-B MASPS
<input type="checkbox"/>	UAT MOPS
<input type="checkbox"/>	Item needed to support applications that have well defined concept of operation
<input type="checkbox"/>	Has complete application description
<input type="checkbox"/>	Has initial validation via operational test/evaluation
<input type="checkbox"/>	Has supporting analysis, if candidate stressing application
<input type="checkbox"/>	Item needed for harmonization with international requirements
<input type="checkbox"/>	Item identified during recent ADS-B development activities and operational evaluations
<input type="checkbox"/>	MASPS clarifications and correction item
<input type="checkbox"/>	Validation/modification of questioned MASPS requirement item
<input type="checkbox"/>	Military use provision item
<input type="checkbox"/>	New requirement item (must be associated with traffic surveillance to support ASAS)

Nature of Issue:	<input type="checkbox"/>	Editorial	<input type="checkbox"/>	Clarity	<input type="checkbox"/>	Performance	<input type="checkbox"/>	Functional
<u>Issue Description:</u>								
<p>How will any of the candidate ADS-B data links determine if an aircraft (such as an helicopter) is on the ground or in ground hover just above the airport surface? Also, for aircraft on takeoff, or aircraft that may be doing a “touch and go”, this same issue applies.</p> <p>Technical issue: The use of a baro aided pressure altimeter may not be of sufficient accuracy to provide accurate AGL height data. The MASPS Ad Hoc working group needs to address this issue. (See page 32, paragraph 2.1.2.2.1.2, “Altitude”).</p>								

<u>Originator’s proposed resolution if any:</u>	None submitted.
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Ad Hoc Group Deliberations:

May 24, 2001: The ad hoc group agreed that this Issue Paper will be DEFERRED to a future revision of DO-242 due to a lack of mature concept of operations.

August 30, 2001: This Issue Paper was renamed from “Helicopter On Ground – Hovering” to “Determination of Airborne and On-Ground States”. This Issue Paper was also Re-OPENED and will be considered for inclusion in DO-242A.