

DoD Applications

Ad Hoc ADS-B MASPS

26-27 Feb 2001

John Gonda

242A-WP-3-06

1

Purpose

- Provide Background on Military ADS-B
- Discuss Potential ADS-B Military features
- Discuss Potential Military applications for inclusion in DO 242a
- Discuss Potential Solutions

242A-WP-3-06

2

Background

- Military System Requirement vs User Requirement
- Military experience with ACM
- Military Use of SKE
- Upgrades to SKE
- Military ADS-B Tests
- Preserving Investment

242A-WP-3-06

3

Military Features

- 360 degree Surveillance
- Flight ID Tagging
- Target Selection and Designation
- Display of “Ident”
- Anonymity
- Increased Jam/Spoof Resistance
- Silent Mode and On/Off Switch
- Military Formation Update Rate and Ref Pt

242A-WP-3-06

4

Military Applications

- Formation Maneuvering
- Station Keeping
- Refueling Rendezvous and Rejoin
- In-trail IMC/night climb/descents
- Long Range Surveillance
- Coordinated Operations
- (Helo) Formation Landing Mode

242A-WP-3-06

5

Solutions

- DF=19
- MASPS Approval
- Testing

242A-WP-3-06

6