

A153 Application Checklist

ADS-B Out Operations Outside of U.S. Designated Airspace

(Updated February 2016)

Purpose:

This checklist consolidates the required items associated with an approval to conduct ADS-B Out operations outside the US. This checklist is intended to aid AFS personnel in determining the acceptability of submitted A153 proposals.

Principal Inspectors:

1. Operators with A353 issued are not required to replace it with A153; however, an existing A353 may be re-issued as A153 if requested by the operator without further documentation. New applicants must be issued A153.
2. Provide applicants with a copy of this checklist during the initial meeting, or direct them where to locate it on the FAA ADS-B website (<http://www.faa.gov/nextgen/programs/adsb/>). Advise the applicant to complete the checklist Parts 1 & 2 (pages 4 & 5 respectively), and include it as part of their application.
3. The applicant must provide an official letter addressed to the respective FSDO/CHDO/CMO requesting a Letter of Authorization (LOA), Management Specification (MSpec), or Operations Specification (OpSpec), for A153 ADS-B OUT Operations Outside of U.S. Designated Airspace. Applicants should refer to FAA Advisory Circular 90-114 (as revised), Section 4, for required information to be contained in the letter of request.
4. When the application and checklist are received, verify the operator's information annotated in Parts 1 & 2 (pages 4 & 5) of the application is accurate.
5. Issue OpSpec/MSpec/LOA A153 when all documentation is verified as correct.
6. Inspectors must log the initial date of the application and final date of approval on the AFS-408 NextGen SharePoint site.

Applicants:

1. Review *A153 Reference Material* (as applicable) (page 2).
2. Determine *A153 Applicability* to the proposed areas of operation (Refer to A153 Reference Material, below).
3. Complete Parts 1 & 2 of the required *A153 Operator Application Checklist* (pages 4 & 5).
4. Include supporting documents per the checklist requirements.
5. Forward application to the Principal Inspector.

A153 Reference Material

FAA Material:

- FAA Order 8900.1 (FSIMS), Vol. 3, Chapter 18, Section 3, “Part A Operations Specifications” OPSPEC/MSPEC/LOA A153
- AC 20-165A, “Airworthiness Approval of ADS-B Out Systems,” as amended. This document is located on the FAA Regulatory and Guidance Library website: <http://rgl.faa.gov/>
- AC 90-114A “Automatic Dependent Surveillance-Broadcast (ADS-B) Operations,” as amended, Appendix 1. This document is located on the FAA Regulatory and Guidance Library website: <http://rgl.faa.gov/>

Asia-Pacific Specific Material:

- Hong Kong Aeronautical Information Publication, as amended.
- India AIRAC AIP Supplement 18/2014 “Automatic Dependent Surveillance – Broadcast Out Based ATS Surveillance Services,” as amended.
- Indonesia AIRAC AIP Supplement 08/15, “Automatic Dependent Surveillance – Broadcast Implementation in Indonesia for ATS Surveillance Separation (Tier-1).”
- Seychelles Aeronautical Information Circular 02/2014 “Mandatory Carriage of GNSS Navigation Equipment, ADS-B and Mode S Transponder in Seychelles Airspace,” as amended.
- Singapore Civil Aviation Authority Aeronautical Information Publication, as amended.
- Republic of China (Taipei) Civil Aeronautics Administration AIP SUP 08/14 “Revision to Automatic Dependent Surveillance – Broadcast (ADS-B) Out Operation Within Taipei FIR,” as amended.
- Viet Nam Aeronautical Information Circular 03/13 “Implementation of ADS-B within Ho Chi Minh FIR,” as amended.

Australian Specific Material:

- Australian Civil Aviation Safety Authority (CASA) Advisory Circular (AC) 21-45(1) “Airworthiness Approval of Airborne Automatic Dependent Surveillance Broadcast Equipment.”

Canadian Specific Material:

- NavCanada AIP Canada Part 2 En route Section 1.6.3 Automatic Dependent Surveillance-Broadcast.

Europe:

- Commission Implementing Regulation (EU) No 1207/2011, amended by Commission Implementing Regulation (EU) No 1028/2014 “Laying Down Requirements for the Performance and the Interoperability of Surveillance for the Single European Sky.”
- CS-ACNS “Certification Specifications and Acceptable Means of Compliance for Airborne Communications, Navigation and Surveillance.”
- AMC 20-24 “Certification Considerations for the Enhance ATS in Non-Radar Areas using ADS-B Surveillance (ADS-B-NRA) Application via 1090 MHZ Extended Squitter.”

A153 Operator Application Checklist

Part 1: General Operator Information

Date of Application: _____

Company Name: _____

Type Operating Certificate: Part 91 ___ Part 91K ___ Part 121 ___ Part 125 ___ Part 125M ___ Part 135 ___

POC/Responsible Person:

Applicant POC	E-mail Address	Telephone Number

Aircraft Proposed for A153 Authorization:

Make/Model/Series (M/M/S)	Registration Number	Serial Number

ADS-B Out Equipment:

List manufacturer's make, model, and part number of ADS-B transmitter and positioning source(s).

Equipment is compliant to which of the following standards:

Note: 1090ES equipment manufactured under TSO-C166b complies with the equipment requirements for all ADS-B operations conducted under A153, to include areas that require compliance to EASA AMC 20-24.

Equipment complies with CFR 91.227 <input type="checkbox"/>	Equipment complies with AC 20-165 <input type="checkbox"/>	Equipment complies with EASA AMC 20-24 or CS ACNS <input type="checkbox"/>
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Area(s) of Operation where operator initially intends to commence A153 operations (use "Authorized Areas" as referenced in B050*):

Authorized Areas of En Route Operation (Not required for part 91 operations)		

Comments:

General operator comments specific to A153 application package

A153 Operator Application Checklist

Part 2: Operator Exhibits/Documents Submissions

Exhibit or Document	Exhibit/Document Title	Operator Indication of Inclusion	Operator Comments
A	Operator Letter Requesting A153 Authorization		
B	AFM, AFMS, or POH ADS-B Content: AFM/AFMS/POH/FOM (as applicable) must contain a statement the installed ADS-B system complies with either 14 CFR § 91.227, AC 20-165 (current edition), EASA AMC 20-24 requirements or EASA CS ACNS. Note: Compliance to EASA AMC 20-24 can be met with equipment that meets the minimum operating performance standards defined by RTCA Documents DO-260, DO-260A, or DO-260B.		
C	Aircraft Maintenance Records: * Airplane’s maintenance record, logbook, or Computerized Maintenance Program (CMP) verifies ADS-B installation, on applicable aircraft, was accomplished per Supplemental Type Certificate (STC) or other FAA-approved means.		
D	Copy of OpSpec/MSpec B050:** Annotate all the authorized areas where A153 will be used.		
E	Part 91 Operator Statement: Part 91 operators provide a statement that the operator’s pilot have knowledge of current air traffic ADS-B directives for the intended areas of operation and will comply with §91.703.		
F	Provide a Completed Copy of OpSpec/MSpec/LOA A153		

*N/A for new aircraft certified with ADS-B Out.

**Not required for Part 91 operations. For part 91 operators, the PI will enter the area(s) of intended operations in the “Conditions and Limitations” drop down box located in “Table 1” of the LOA template.

Name of POI, PMI, or PAI who conducted and approved this A153 application _____ Date _____