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## DEPARTMENT OF TRANSPORTATION

### Federal Aviation Administration

#### **Proposed Technical Standard Order (TSO)-C166, Extended Squitter Automatic Dependent Surveillance—Broadcast (ADS-B) and Traffic Information Service—Broadcast (TIS-B) Equipment Operating on the Radio Frequency of 1090 Megahertz (MHz)**

**AGENCY:** Federal Aviation Administration.

**ACTION:** Notice of availability and requests for public comment.

**SUMMARY:** This notice announces the re-issuance of the proposed Technical Standard Order (TSO)-C166, Extended Squitter Automatic Dependent Surveillance—Broadcast (ADS-B) and Traffic Information Service (TIS-B) Equipment Operating on the Radio Frequency of 1090 Megahertz (MHz). Comments received from the initial August 11, 2003, presentation resulted in significant changes to the TSO, including the addition of an Appendix A to address corrections to the proposed RTCA Inc., Document (RTCA/DO)-260A, Minimum Operational Performance Standards for 1090 MHz Extended Squitter Automatic Dependent Surveillance—Broadcast (ADS-B) and Traffic Information Services—Broadcast (TIS-B), dated April 10, 2003. The resulting changes to this proposed TSO tells persons seeking a TSO authorization or letter of design approval what minimum performance standards (MPS) their Extended Squitter ADS-B and TIS-B equipment must meet to be identified with the applicable TSO marking.

**DATES:** Comments must be received on or before May 31, 2004.

**ADDRESSES:** Send all comments on the proposed technical standard order to: Federal Aviation Administration (FAA), Aircraft Certification Service, Aircraft Engineering Division, Avionic Systems Branch, AIR-130, 800 Independence Avenue, SW., Washington, DC 20591. ATTN: Mr. Robert Duffer. Or deliver comments to: Federal Aviation Administration, Room 815, 800 Independence Avenue, SW., Washington, DC 20591.

**FOR FURTHER INFORMATION CONTACT:** Mr. Robert Duffer, Federal Aviation

Administration, Aircraft Certification service, Aircraft Engineering Division, Avionic Systems Branch, AIR-30, 800 Independence Avenue, SW., Washington, DC 20591. Telephone (202) 385-4557, FAX: (202) 385-4651.

#### **SUPPLEMENTARY INFORMATION:**

##### **Comments Invited**

Interested persons are invited to comment on the proposed TSO listed in this notice by submitting such written data, views, or arguments as they desire to the above specified address.

Comments received on the proposed TSO may be examined, before and after the comment closing date, in Room 815, FAA Headquarters Buildings, 800 Independence Avenue, SW., Washington, DC 20591, weekdays except Federal holidays, between 8:30 a.m. and 4:30 p.m. All communications received on or before the closing date will be considered by the Director of the Aircraft Certification Service before issuing the final TSO.

##### **Background**

This proposed TSO prescribes the MPS for airborne equipment to support Automatic Dependent Surveillance—Broadcast (ADS-B) using Extended Squitter equipment operating on the frequency of 1090 MHz. ADS-B is a system by which aircraft and certain equipped surface vehicles can share position, velocity, and other information with one another, and with ground-based facilities such as air traffic services via radio broadcast techniques. Extended Squitter ADS-B will also support the reception of Traffic Information Service—Broadcast (TIS-B) messages. Two major classes of 1090 MHz Extended Squitter ADS-B equipment are supported by this proposed TSO: Class A( ) equipment which incorporates both a broadcast and receive subsystem, and Class B( ) equipment which supports broadcast only. It should be noted that upon final issuance of TSO-C166 the FAA will no longer accept applications for the incorporation of 1090 MHz Modes S Extended Squitter Broadcast under TSO-C112, unless the equipment also meets the minimum performance requirements of TSO-C166.

##### **How To Obtain Copies**

You may get a copy of the proposed TSO from the Internet at: <http://av-info.faa.gov/tso/Tsopro/Proposed.htm>. See section entitled **FOR FURTHER INFORMATION CONTACT:** for the complete address if requesting a copy by mail. You may inspect the RTCA document at the FAA office location listed under **ADDRESS**. Note however, RTCA

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**Susan J. M. Cabler,**

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## DEPARTMENT OF TRANSPORTATION

### Federal Aviation Administration

#### **TSO-C163, VDL Mode 3 Communications Equipment Operating Within the Frequency Range 117.975 to 137.000 Megahertz (MHz)**

**AGENCY:** Federal Aviation Administration, DOT.

**ACTION:** Availability of TSO-C163.

**SUMMARY:** This notice announces the availability of the Technical Standard Order (TSO) for VDL Mode 3 Communications Equipment Operating within the Frequency Range 117.975 to 137.000 MHz. The VDL Mode 3 TSO recognizes the RTCA document No. (RTCA/DO)-271B, Minimum Operational Performance Standards (MOPS) for Aircraft VDL Mode 3 Transceiver Operating in the Frequency Range 117.975-137.000 MHz, as the minimum performance standards (MPS) for VDL Mode 3 equipment.

**DATES:** The effective date for TSO-C163 is April 29, 2004.

**FOR FURTHER INFORMATION CONTACT:** Mr. Gregory E. Frye, Federal Aviation Administration, Aircraft Engineering Division, Aircraft Certification Service, AIR-130, 470 L'Enfant Plaza, Suite 4107, SW., Washington, DC 20024; Telephone: (202) 385-4649, FAX: (202) 385-4651; E-mail address: [gregory.e.frye@faa.gov](mailto:gregory.e.frye@faa.gov).

##### **How To Obtain Copies**

You may get a copy of TSO-C163 from the Internet at (<http://av-info.faa.gov/tso/Tsotur/Current.htm>). See section entitled **FOR FURTHER INFORMATION CONTACT** for the complete address if requesting a copy by mail. You may inspect the RTCA document at: Federal Aviation Administration (FAA), Aircraft Certification Service, Aircraft Engineering Division, Room 815, 800 Independence Avenue, SW., Washington, DC 20591, weekdays except Federal holidays, between 8:30