

Federal Aviation Administration

aircraft.

Advisory Circular

TITLE 14 OF THE CODE OF FEDERAL REGULATIONS (14 CFR) GUIDANCE MATERIAL

Date: 10/10/00

Initiated by: AIR-120

Subject: INDEX OF AVIATION TECHNICAL STANDARD ORDERS

1. PURPOSE. This advisory circular (AC) describes the public procedures the Federal Aviation Administration (FAA) will use to develop and issue Technical Standard Orders (TSO) for aeronautical articles to be used on civil aircraft. The AC presents an index of the FAA TSO's that contain minimum performance standards for specified materials, parts, processes, and appliances used on civil

- **2. CANCELLATION.** Advisory Circular 20-110K, Index of Aviation Technical Standard Orders, dated September 22, 1999, is canceled.
- **3. RELATED FEDERAL REGULATION SECTIONS.** Title 14 of the Code of Federal Aviation Regulations (14 CFR), Part 21, Subpart O.
- **4. BACKGROUND.** On June 2, 1980, by Amendment 21-50 to 14 CFR Part 21, the FAA adopted a new public procedure for issuing TSO's for specified materials, parts, processes, and appliances used on civil aircraft, relocated the substance of Subpart A of 14 CFR Part 37 to Subpart O of 14 CFR Part 21, and revoked the remainder of 14 CFR Part 37. Amendment 21-50 became effective on September 9, 1980.
- **5. PUBLIC PROCEDURE.** The following is the public procedure the FAA will use to

develop and issue final TSO's for specific articles used on civil aircraft.

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Change:

- a. The FAA will continue to develop proposed TSO's and will use, by reference in the TSO, documents prepared and issued by organizations such as the RTCA, Inc. (RTCA) and the Society of Automotive Engineers (SAE). Notices of RTCA meetings and invitations will continue to be published in the Federal Register to allow public participation at the early stages of document development.
- **b.** Copies of documents prepared and issued by an organization that are incorporated by reference in proposed or final TSO's will be made available to interested persons in accordance with FAA regulations.
- **c.** Any person may request the Administrator to revise or issue a new TSO by submitting a description of the revision sought or a description of the new article for which a TSO is requested.
- d. The FAA will use several methods to ensure that the public is afforded early opportunities to take part in the TSO decision making process. Proposed TSO's are normally distributed to the public for comment through the use of mailing lists. Any individual or organization can request to be placed on the TSO mailing lists. A notice of availability for comment of each proposed TSO is published in

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the Federal Register, and a copy of each final TSO is mailed to all persons on the mailing list.

- e. Any person wishing to submit comments on a proposed TSO may do so. The Administrator will consider all comments received on or before the closing date for comments before issuing a final TSO. Late comments may also be considered as long as no additional expense or delay in processing the TSO is incurred.
- f. All comments submitted will be available, both before and after the closing date for comments, for examination by interested persons. Comments are located at the FAA Headquarters in the Aircraft Certification Service, Aircraft Engineering Division (AIR-100), Room 815, 800 Independence Avenue, SW, Washington, DC 20591, between 8:30 a.m. and 4:30 p.m. Monday through Friday.
- **g.** Copies of proposed TSO's, FAA Resolution of Comments, and final TSO's will also be available at AIR-100, and at all FAA Regional Aircraft Certification Offices. Final TSO's will not be published in the Federal Register.

- **6. INDEX OF TSO's.** For the reader's convenience, the index of TSO's is presented in numerical sequence (appendix 1) and by subject matter (appendix 2). All TSO standards contained in 14 CFR Part 37, Subpart B, as of September 9, 1980, are current under the TSO revision program, unless appendix 1 of this AC shows a later revision date.
- 7. HOW TO OBTAIN TSO's. To obtain official copies of the TSO's listed in appendices 1 or 2 write to: U.S. Department of Transportation. Subsequent Distribution Office, Ardmore East Business Center, 3341 O 75th Avenue, Landover, MD 20785. Computer users with Internet access may view and/or obtain unofficial electronic copies of the TSO's accessing the **AIR** website at http://www.faa.gov/avr/air/airhome.htm. To have your name placed on our mailing list to receive future issuances of TSO's, notices for public comment on proposed TSO's, or copies of proposed TSO's, write to: FAA, AIR-100, 800 Independence Avenue, SW, Washington, DC 20591.

/S/ James C. Jones Manager, Aircraft Engineering Division, AIR-100

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APPENDIX 1. INDEX OF TSO's IN NUMERICAL SEQUENCE (5 pages)

TSO NUMBER		SUBJECT TITLE	
TSO-C1c	7/10/87	Cargo Compartment Fire Detection Instruments	
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TSO-C4c	4/1/59	Bank and Pitch Instruments	
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TSO-C16 A-1	4/16/51	Airspeed Tubes (Electrically Heated)	
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TSO-C20 A-1	4/16/51	Combustion Heaters	
TSO-C21b	3/16/89	Aircraft Turnbuckle Assemblies and/or Turnbuckle Safetying Devices	
TSO-C22g	3/5/93	Safety Belts	
TSO-C23d	6/1/94	Personnel Parachute Assemblies	
TSO-C25a	1/15/57	Aircraft Seats and Berths (Type I Transport, 6g Forward Load)	
TSO-C26c	5/18/84	Aircraft Wheels and Wheel-Brake Assemblies, with Addendum I	
TSO-C27 A-2	6/30/55	Twin Seaplane Floats	
TSO-C28	3/15/52	Aircraft Skis	
TSO-C30c	5/12/89	Aircraft Position Lights	
TSO-C31d	4/30/84	High Frequency (HF) Radio Communications Transmitting Equipment Operating within the Radio Frequency Range of 1.5-30 Megahertz	

TSO NUMBER		SUBJECT TITLE
TSO-C32d	4/30/84	High Frequency (HF) Radio Communications Receiving Equipment Operating within the Radio Frequency Range 1.5-30 Megahertz
TSO-C34e	1/15/88	ILS Glide Slope Receiving Equipment Operating within the Radio Frequency Range of 328.6-335.4 Megahertz (MHz)
TSO-C35d	5/15/71	Airborne Radio Marker Receiving Equipment
TSO-C36e	1/25/88	Airborne ILS Localizer Receiving Equipment Operating within the Radio Frequency Range of 108-112 Megahertz (MHz)
TSO-C37d	9/23/92	VHF Radio Communications Transmitting Equipment Operating within the Radio Frequency Range 117.975 to 137.000 Megahertz
TSO-C38d	9/23/92	VHF Radio Communications Receiving Equipment Operating within the Radio Frequency Range 117.975 to 137.000 Megahertz
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TSO-C41d	5/6/85	Airborne Automatic Direction Finding (ADF) Equipment
TSO-C42	3/1/57	Propeller Feathering Hose Assemblies
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TSO-C44b	5/10/95	Fuel Flowmeters
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TSO-C47	10/15/61	Pressure Instruments - Fuel, Oil, and Hydraulic
TSO-C48	4/1/59	Carbon Monoxide Detector Instruments
TSO-C49b	5/30/95	Electric Tachometer: Magnetic Drag (Indicator and Generator)
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TSO-C52b	5/30/95	Flight Director Equipment
TSO-C53a	2/1/61	Fuel and Engine Oil System Hose Assemblies
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R	SUBJECT TITLE		
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1/18/91	Distance Measuring Equipment (DME) Operating within the Radio Frequency Range of 960-1215 Megahertz		
11/15/60	Airborne Radar Altimeter Equipment (For Air Carrier Aircraft)		
8/18/83	Airborne Automatic Dead Reckoning Computer Equipment Utilizing Aircraft Heading and Doppler Ground Speed and Drift Angle Data (For Air Carrier Aircraft)		
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9/4/63	Hydraulic Hose Assemblies		
3/1/63	Fuel Drain Valves		
7/20/81	Gas Turbine Auxiliary Power Units		
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TSO NUMBER		SUBJECT TITLE
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TSO-C92c	3/19/96	Airborne Ground Proximity Warning Equipment
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TSO-C94a	8/12/81	Omega Receiving Equipment Operating within the Radio Frequency Range of 10.2 to 13.6 Kilohertz
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TSO-C103	4/12/84	Continuous Flow Oxygen Mask Assembly (For Non-Transport Category Aircraft)
TSO-C104	6/22/82	Microwave Landing System (MLS) Airborne Receiving Equipment
TSO-C105	6/13/84	Optional Display Equipment for Weather and Ground Mapping Radar Indicators
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TSO-C124a	8/1/96	Flight Data Recorder Systems		
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TSO-C149	4/24/98	Aircraft Bearings		
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APPENDIX 2. INDEX OF TSO's BY SUBJECT (7 pages)

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	Flight Director Equipment	TSO-C52b		
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	ILS Glide Slope Receiving Equipment Operating within the Radio Frequency Range of 328.6-335.4 Megahertz (MHz)	TSO-C34e			
	Microwave Landing System (MLS) Airborne Receiving Equipment	TSO-C104			
	Omega Receiving Equipment Operating within the Radio Frequency Range of 10.2 to 13.6 Kilohertz	TSO-C94a			
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Recorders		
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