

Clearance Record
DOCUMENT COMMENT LOG (FIELD)

Originating Office: AIR-133	Document Description: TSO C-70b Life RAFTS	Project Lead/Reviewer: Jan Risheim	Reviewing Office:	Date of Review:
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Commenter	Page & Paragraph or Topic	Comment	Reason for Comment	Suggested Change	Comment Resolution
Gardlin, ANM-115, x2136	Appendix 1	All Comments relate to Appendix 1 and its modification of AS 1356. Page and paragraph numbers related to AS1356.			
Gardlin, ANM-115, x2136	p. 10, ¶2.3	Definition of nominal operating Pressure is a little imprecise.	Nominal operating pressure is used in many places and should be a clear definition.	Nominal Operating Pressure: The median of the Normal Conditions Pressure Range.	Comment Accepted - Draft TSO revised
Gardlin, ANM-115, x2137	p. 10, ¶2.3	Definition of Normal Conditions Pressure Range is a little imprecise.	The Normal conditions allow for a wide range of sample size.	The range of pressures attained during all typical inflations conducted at Normal Temperature Conditions.	Comment Accepted - Draft TSO revised
Gardlin, ANM-115, x2138	P. 18 ¶5.1.4	Specifying mechanical activation only is more of a design, rather than performance, standard.	The type of system should be a design choice, unless the TSO itself is limited.	Change the TSO title to 'mechanically activated' life rafts; this could be discussed in ¶ 1. Purpose, or ¶ 2. Applicability, and then wouldn't need to be mentioned in the Appendix.	Agree with comment partially incorporated suggested change. The design specification requiring a mechanically activated inflation system was removed. However, the Appendix was modified to add the following note: <i>Note: This standard was developed for mechanically activated life raft inflation systems. Electric, electro/mechanical, or software based actuation systems are not adequately addressed by this standard.</i>
Gardlin, ANM-115, x2138	p. 30, ¶ 8.8.4	In addition to the TSO for batteries, there may also be special conditions required.	Non-rechargeable batteries will be the subject of special conditions in the future; the TSO should mention this.	Add "...In addition, special conditions may be required to gain installation approval."	Partially agree. A Note was added after section 8.8.4 stating: "Note: A TSO approval does not include installation approval in an aircraft. However, special conditions may be required to gain installation approval if the design includes non-rechargeable (i.e. primary) lithium batteries."

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C Alfano ANE-171)	Page 3, Para 5b.	"Instructions coveringcontinued airworthiness of the life raft. Include recommended inspection intervals and service life, as appropriate."	We are finding some TSO Holders do not clearly understand their responsibility regarding continued airworthiness of the TSO product.	As part of Para 5b. Include this example: "For example, if the liferaft may be affected by hot, cold, dry and humid storage or operations you must differentiate required inspection intervals to maintain airworthiness due to these conditions."	Agree with comment however reworded para 5b as follows: <i>b. Instructions covering periodic maintenance, calibration, and repair, necessary for the life raft's continued compliance with the TSO. Include recommended inspection intervals and service life, as appropriate. If appropriate, differentiate the required inspection intervals and service life if affected by storage and operating conditions (i.e. temperature, humidity, etc.)</i>
C Alfano ANE-171)	Page 7, Appendix 1, Section 3, Page 15, Page 15, replace section 3.2.5 with the following text: 3.2.5 Flammability	Correct typo in the following text: "The life raft assembly shall be constructed of material meeting the requirements of 14 CFR 25, Appendix F, Part I, Amendment 111. Survival kit contents need not meet this requirement provided that they are fully enclosed within a container that passes the 12 s vertical burn test in Appendix F. A listing of all the survival kit equipment that does not meet the requirements of 14 CFR 25, Appendix F, Part I, Amendment 111 must be documented in the manual required by paragraph 5.a of this TSO."	Just being an engineer and clarifying text.	Suggest changing text from "14 CFR 25, Appendix F, Part I, Amendment 111" to "14 CFR 25, Appendix F, Part I, Amendment III" as noted.	Disagree with comment. No Change. The Amendment level called out is proper at 111 not III. Perhaps the commenter was thinking of Part III which is not called out in this TSO.
C Alfano ANE-171)	Page 7, Appendix 1, Section 3, Page 15, replace subsection 3.4.1 with the following text: 3.4.1 Color	The following text should specify the color specification. "The color of the primary exterior surfaces, buoyancy tubes, canopy, floor, and water retention features (ballast), shall be International Orange/Yellow or an equivalent, approved high-visibility color."	It may not be clear to applicant or ACO engineer what international orange / yellow or or an equivalent, approved high-visibility color is without specifying a specification to be met.	Suggest adding a specification such as Federal Standard Colors 595 with swatch codes for reference to identify International Orange/Yellow or an equivalent, approved high-visibility color.	Partially agree with commenter. Will bring this up with the SAE to see if a color specification callout is appropriate for defining "International Yellow/Orange" and ask that it be included in the next revision of the standard. For the moment - no change to document.

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