

RA 5875 – (European) Technical Standard Order (MRP Part 21 Subpart O)

Rationale

A Technical Standard Order (TSO) or (European) TSO ((E)TSO)¹ is a detailed design specification issued by a recognized Certification body detailing the essential requirements for an article² to be (E)TSO approved. Although the MAA does not issue a (E)TSO, the Type Airworthiness Authority (TAA) or Type Airworthiness Manager (TAM) can utilize an (E)TSO from another recognized Certification authority. (E)TSOs are only issued for articles that were designed for civil use, although they may be fitted to military Air Systems. Whilst the (E)TSO details how the article meets a minimum performance standard, the suitability of the article for integration or use on the Air System is not guaranteed and its use may still pose a risk to the Air System's Airworthiness. This RA ensures that appropriate consideration is given to the technical conditions of the (E)TSO article with regard to its intended use.

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5875(1): (European) Technical Standard Order

Regulation 5875(1)

(European) Technical Standard Order

5875(1) The TAA³ **shall** ensure that the technical conditions of the (E)TSO article are suitable for the intended use in or on the Air System.

Acceptable Means of Compliance 5875(1)

(European) Technical Standard Order

1. The TAA **should** ensure they have verified the (E)TSO design specification is suitable for the intended use in or on the Air System and **should** ensure they have received and reviewed the article's Declaration of Design and Performance (DDP).
2. The TAA **should** ensure the replacement or Repair of an article is evaluated for its effect on the Type Airworthiness Safety Assessment⁴ and Air System Type Certification Basis⁵.

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3. An (E)TSO is an approved specification detailing the minimum performance standard for an article. As such an article issued as conforming to an (E)TSO can be presumed to meet the minimum performance standard and (E)TSO design specification without additional compliance demonstration. However, an article's compliance with an (E)TSO does not infer any approval to fit to an Air System and will not necessarily ensure the article's suitability for integration or use on the Air System. In ensuring the (E)TSO design specification is suitable for the Air System the TAA may wish to consult the Design Organization.
4. The design or performance limitations which limit an article's use will be explicitly recorded in the DDP.
5. When an article has been approved to an (E)TSO the article is permanently marked with the appropriate (E)TSO number. All documentation associated with Certification and Release for installation on an Air System will record this (E)TSO number.

¹ The (E)TSO abbreviation can be taken to mean a TSO from the USA, UK or a European TSO. With the departure of the UK from the EU, the Civil Aviation Authority (CAA) can commence issuing TSO Approvals. These will be named UK Technical Standing Order Approvals (UKTSOA).

² For the purposes of the RA 5800 series, an 'article' means any Parts and Appliances (including Government Furnished Equipment) to be used on military Air Systems.

³ Where the Air System is ►not UK MOD-owned, Type Airworthiness (TAW) management◄ regulatory responsibility by either the TAA or TAM needs to be agreed within the Sponsor's approved model ►◄; refer to RA 1162 – Air Safety Governance Arrangements for Civilian Operated (Development) and (In-Service) Air Systems or refer to RA 1163 – Air Safety Governance Arrangements for Special Case Flying Air Systems. Dependant on the agreed delegation of TAW responsibilities TAM may be read in place of TAA as appropriate throughout this RA.

⁴ Refer to RA 5012 – Type Airworthiness Safety Assessment.

⁵ Refer to RA 5820 – Changes in Type Design (MRP Part 21 Subpart D).

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