



# SLOVENSKI STANDARD

## oSIST prEN 9147:2018

01-november-2018

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### Aeronavtika - Ravnanje z nepopravljivimi predmeti

Aerospace series - Management of unsalvageable Items

Luft- und Raumfahrt - Management nichtverwendbarer Gegenstände

Série aérospatiale - Gestion des éléments irrécupérables

Ta slovenski standard je istoveten z: prEN 9147

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#### **ICS:**

49.020	Letala in vesoljska vozila na splošno	Aircraft and space vehicles in general
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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**DRAFT**  
**prEN 9147**

September 2018

ICS 49.020

English Version

## Aerospace series - Management of unsalvageable Items

Série aérospatiale - Gestion des éléments  
irrécupérables

Luft- und Raumfahrt - Management nichtverwendbarer  
Gegenstände

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee ASD-STAN.

If this draft becomes a European Standard, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

This draft European Standard was established by CEN in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

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## European foreword

This document (prEN 9147:2018) has been prepared by the Aerospace and Defence Industries Association of Europe - Standardization (ASD-STAN).

After enquiries and votes carried out in accordance with the rules of this Association, this Standard has received the approval of the National Associations and the Official Services of the member countries of ASD, prior to its presentation to CEN.

This document is currently submitted to the CEN Enquiry.

The International Aerospace Quality Group (IAQG), with representatives from companies in the Americas, Asia/Pacific, and Europe, benchmarked industry best practices and guidance to develop the requirements of unsalvageable items management. The key objectives of this European standard are to prevent unsalvageable items to be used for manufacturing, maintenance, or repair of aviation, space, and defense products, and to specify the conditions of their reclassifications.

This European standard is complementary to the EN 9100 series of standards (i.e. EN 9100, EN 9110 and EN 9120) requirements associated to the control of nonconforming products.

### Rationale:

This document standardizes unsalvageable item management program requirements to the greatest extent possible and can be used at all levels of the supply chain by organizations around the world to mitigate the risk to use unsalvageable items within aviation, space, and defense products to improve and ensure the performance, reliability, and safety of these products.

This document provides the following potential benefits:

- standardizes unsalvageable management program requirements;
- integrates aviation, space, and defense industry best practices and guidance;
- increases product quality and safety;
- achieves cost savings due to unsalvageable item reclassifications;
- reduces waste/environmental footprint by fostering reclassification;
- protects companies' intellectual property by preventing reverse engineering on the scrapped items.

**prEN 9147:2018 (E)****1 Scope**

This document is applicable to all items used for manufacturing, maintenance, and repair of aviation, space, and defense products from the raw material to the final product (e.g. aircraft, structural items, constituent assemblies, standard parts, consumables with conformity and/or safety impact).

This document considers items dispositioned as scrap in accordance with 8.7 of the EN 9100 series of standards supporting nonconformity management and/or organization decisions (e.g. obsolescence, inventory management, missing traceability documentation).

The requirements specified in this document are complementary (not alternative) to contractual and applicable statutory and regulatory requirements. Should there be a conflict between the requirements of this document and applicable statutory or regulatory requirements, the applicable statutory or regulatory requirements take precedence.

This document defines requirements and actions to be taken after the disposition decision to control the unsalvageable items within the organization and its external providers.

**2 Normative references**

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN ISO 9000, *Quality management systems — Fundamentals and vocabulary*

**3 Terms and definitions**

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For the purposes of this document, the terms and definitions given in EN ISO 9000 and the following apply.

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ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

**3.1 disposition decision**

action taken by the organization to assign the disposition of nonconforming or unserviceable items (including over shelf life items and over life-limited items), or surplus for the following categories:

- a) rework/repair;
- b) use as is;
- c) return to customer;
- d) reject to supplier;
- e) scrap

**3.2 item**

material, part, spare part, component, functional unit, equipment, software, system, or aircraft that can be individually considered

**3.3****mutilation**

irreversible alteration or change rendering the item beyond repair and incapable of being reworked

**3.4****reclassification**

action to re-use an item for non-airworthy purpose (e.g. exhibition, training, tooling, test devices, mock-ups, jigs)

**3.5****scrapping**

mutilation, disposal with traceability, or reclassification of an unsalvageable item

**3.6****unsalvageable**

item that does not conform to its approved design and cannot be restored to a conforming condition or an item declared as not to be used for its airworthy intended purpose

Note 1 to entry: An unsalvageable item cannot be restored to an airworthy condition.

**3.7****unserviceable**

item that does not conform to its approved design.

Note 1 to entry: An unserviceable item may be restored to an airworthy condition.

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**4 Requirements****4.1 General requirements**

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The organization shall ensure that:

- a) No unsalvageable items are used for manufacturing, maintenance, or repair on aviation, space, and defense products.
- b) Actions are taken to prevent resurfacing or resale of an unsalvageable item at a later date on the aviation, space, and defense market.
- c) An unsalvageable item does not recover an airworthy status.
- d) No unsalvageable items are disassembled to use their components for an airworthy purpose.  
Unserviceable items may be disassembled.
- e) Documented information is retained to ensure the traceability of the items until their mutilation or destruction.
- f) Life-limited items that have exceeded their defined time frame shall not receive a disposition decision of rework, repair, or use as is.

**4.2 Unsalvageable item management program requirements**

- a) The organization's top management shall provide evidence of its commitment to the unsalvageable items management program.

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- b) The organization shall define responsibility and authority for establishment, implementation, and maintenance of the unsalvageable items management program.

NOTE It is common to set up a disposition committee to run the unsalvageable items management program.

- c) The organization shall establish, implement, and maintain documented information of the unsalvageable items management program. The unsalvageable items management program shall include consideration of the following elements (see 4.3):

- general scrapping requirements;
- mutilation requirements;
- disposal with traceability requirements;
- reclassification requirements;
- reject to supplier requirements.

Refer to the unsalvageable items management flowchart depicted in Annex A.

- d) The organization shall flow down applicable requirements to the appropriate external providers.
- e) The organization shall require that the appropriate external providers flow down the applicable requirements to their own external providers.
- f) The organization shall monitor the unsalvageable items management program for effectiveness based on internal, customer, statutory, and regulatory requirements.

**4.3 Scrapping options**

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**4.3.1** Unsalvageable items dispositioned for scrap can be:

- a) mutilated;
- b) disposed with traceability;
- c) reclassified;
- d) rejected to supplier.

**4.3.2** All unsalvageable items shall be segregated with positive controls before they are mutilated, disposed with traceability, reclassified, or rejected to supplier.

**4.3.3** All unsalvageable items shall be positively controlled until physically rendered unusable.

When dispositioning an item, consideration shall be given regarding embedded software.

**4.3.4** When the organization decides to mutilate unsalvageable items, the organization shall:

- a) Establish, implement, and maintain documented information to mutilate unsalvageable items.
- b) Define responsibility and authority for mutilating unsalvageable items.



NOTE After mutilation, an item becomes waste and follows the company's established waste management processes.

**4.3.5** When the unsalvageable item mutilation is not performed in the organization perimeter (e.g. technical limitations, organization strategy), the organization shall dispose of the item with traceability to an approved external provider.

NOTE See 8.4 of EN 9100 series of standards for guidance regarding the control of external providers.

- a) The organization shall ensure that an approved external provider complies with the general requirements defined in 4.1.
- b) When the external provider is not approved, the organization shall witness the mutilation or the destruction of the unsalvageable item to ensure compliance with the general requirements defined in 4.1.

**4.3.6** When the organization decides to reclassify the unsalvageable item with a non-airworthy status:

- a) The organization shall maintain traceability for unsalvageable items when a mutilation has not been performed.
- b) The organization shall establish and retain documented information (e.g. log book), including part number, part name, and destination, in order to maintain the traceability of the reclassified unsalvageable items.
- c) If the organization decides to end the reclassification of unsalvageable items, the organization shall apply the scrapping requirements of this standard (see 4.3).

**4.3.7** Unsalvageable items can be rejected to the supplier.

- a) The supplier shall apply its unsalvageable item management program according to the organization requirements.
- b) When the supplier wants the organization to dispose of the unsalvageable item, the organization shall follow its own unsalvageable item management program.

### Annex A (informative)

## Unsalvageable items management flowchart

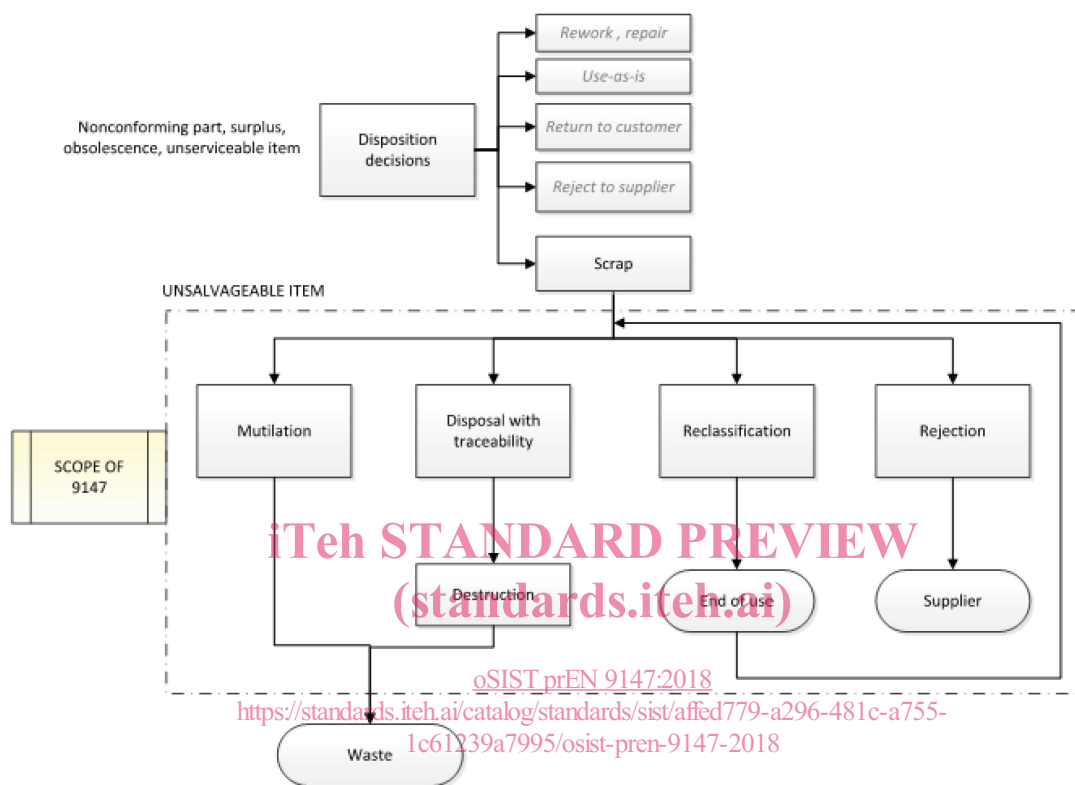


Figure A.1