In accordance with the EASA Certification Memorandum procedural guideline, the European Aviation Safety Agency proposes to issue an EASA Certification Memorandum (CM) on the subject identified below.

All interested persons may send their comments, referencing the EASA Proposed CM Number above, to the e-mail address specified in the “Remarks” section, prior to the indicated closing date for consultation.

EASA Certification Memoranda clarify the European Aviation Safety Agency’s general course of action on specific certification items. They are intended to provide guidance on a particular subject and, as non-binding material, may provide complementary information and guidance for compliance demonstration with current standards. Certification Memoranda are provided for information purposes only and must not be misconstrued as formally adopted Acceptable Means of Compliance (AMC) or as Guidance Material (GM). Certification Memoranda are not intended to introduce new certification requirements or to modify existing certification requirements and do not constitute any legal obligation.

EASA Certification Memoranda are living documents into which either additional criteria or additional issues can be incorporated as soon as a need is identified by EASA.

**Subject**

Installation of “Cargo Seat Bags” on Passenger Seats
### Log of Issues

<table>
<thead>
<tr>
<th>Issue</th>
<th>Issue date</th>
<th>Change description</th>
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</thead>
<tbody>
<tr>
<td>01</td>
<td>18.06.2012</td>
<td>First issue.</td>
</tr>
</tbody>
</table>
1. INTRODUCTION

1.1. PURPOSE AND SCOPE

The purpose of this Certification Memorandum is to provide specific guidance for compliance to CS 25.855 and CS 25.857 in the case of cargo seat bags.

1.2. REFERENCES

It is intended that the following reference materials be used in conjunction with this Certification Memorandum:

<table>
<thead>
<tr>
<th>Reference</th>
<th>Title</th>
<th>Code</th>
<th>Issue</th>
<th>Date</th>
</tr>
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<tr>
<td>CS 25.855</td>
<td>Cargo or baggage compartments - Certification Specifications for Large Aeroplanes</td>
<td>CS-25</td>
<td>11</td>
<td>04.07.11</td>
</tr>
<tr>
<td>CS 25.857</td>
<td>Cargo compartment classification - Certification Specifications for Large Aeroplanes</td>
<td>CS-25</td>
<td>11</td>
<td>04.07.11</td>
</tr>
<tr>
<td>OPS 1.270</td>
<td>Stowage of baggage and cargo - Commission Regulation (EC) No 859/2008 amending Council Regulation (EEC) No 3922/91 as regards common technical requirements and administrative procedures applicable to commercial transportation by aeroplane</td>
<td>EU-OPS</td>
<td></td>
<td>20.09.08</td>
</tr>
</tbody>
</table>

1.3. ABBREVIATIONS

The following abbreviations are used in this Certification Memorandum:

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Meaning</th>
</tr>
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<tbody>
<tr>
<td>AC</td>
<td>Advisory Circular</td>
</tr>
<tr>
<td>CM</td>
<td>Certification Memorandum</td>
</tr>
<tr>
<td>CS</td>
<td>Certification Specification</td>
</tr>
<tr>
<td>EASA</td>
<td>European Aviation Safety Agency</td>
</tr>
<tr>
<td>FAA</td>
<td>Federal Aviation Administration</td>
</tr>
<tr>
<td>GM</td>
<td>Guidance Material</td>
</tr>
</tbody>
</table>

1.4. DEFINITIONS

The following definitions are used in this Certification Memorandum:

<table>
<thead>
<tr>
<th>Definition</th>
<th>Meaning</th>
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<tbody>
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</table>
2. BACKGROUND

EASA has been made aware of changes to install cargo seat bags on passenger seats in order to conduct flights for transportation of mail and perhaps other items.

Several terms have been used to describe the items which are the subject of this Certification Memorandum, such as "Passenger Seat Cargo Container", "Passenger Seat Container", "Seat Converter Stowage Compartment".

For the purposes of this Certification Memorandum the term "Cargo Seat Bag" is used which is intended to mean;

- a container, probably made of fabric but not limited to this, intended for installation on to or between aircraft passenger seats for the carriage of cargo or baggage.

The subject aircraft changes have been classified as minor, in accordance with Commission Regulation (EC) No 1702/2003, Annex Part 21, 21A.92.

Typically, the cargo seat bags are installed onto passenger seats in the evening in order that the cargo may be carried overnight in the passenger cabin and are removed again in the morning in order to allow the aircraft to be used once more for passenger carrying operations.

However, more prolonged usage is of course possible and this Certification Memorandum is not intended to cover only overnight operations.

The use of aircraft passenger cabins in such a way as temporary, or more permanent, cargo compartments is not in line with the provisions of CS-25 or any of its predecessor design codes.

The primary concern is in regards to fire protection.

CS-25 defines several different types of cargo compartment (ref. CS 25.857) but the use of cargo bags on passenger seats does not follow the rationale of any.

For instance all compartment types except Class A require a separate approved smoke detector or fire detector system to give warning at the pilot or flight engineer station. Such detection is missing in the case of the cargo seat bag installations of which EASA is aware.

Conversely, Class A compartments are envisioned to be small compartments for the stowage for example of crew luggage in the pilot compartment (ref. FAA AC 25-17) where the significance of the fire threat and proximity of crew for discovering a fire and subsequent fire fighting can easily be assumed to result in an acceptably low safety risk.

However, the use of cargo seat bags on multiple rows of passenger seats may equate to up to several tons of cargo, and the proximity of crew members and their ability to detect, access and fight fires is much more questionable.

On the other hand EASA is not aware of any adverse service experience from such operations.

EASA believes that with appropriate design features and operational procedures ensured it is possible for the carriage of cargo in cargo seat bags to be performed with acceptable safety.

As discussed above, CS-25 does not contain adequate or appropriate safety standards and thus in accordance with Commission Regulation (EC) No 1702/2003, Annex Part 21, 21A.16B for the approval of such changes EASA shall prescribe special conditions.

In accordance with GM 21A.91, para. 3.3 (i), a change requiring a special condition(s) shall be classified major.
3. EASA CERTIFICATION POLICY

3.1. EASA Policy

The installation of any cargo seat bags, as described above, for any operational use, shall only be achieved by application for EASA approval of a major change or Supplemental Type Certificate (STC).

This is because special conditions for the installation design and allowable operational use will need to be generated by EASA due to the related airworthiness codes not containing adequate or appropriate safety standards for such a changed product.

3.2. WHO THIS CERTIFICATION MEMORANDUM AFFECTS

Anyone who is designing a change to an aircraft involving cargo seat bags, as described above.

4. REMARKS

1. This EASA Proposed Certification Memorandum will be closed for public consultation on the 31st of July 2012. Comments received after the indicated closing date for consultation might not be taken into account.

2. Comments regarding this EASA Proposed Certification Memorandum should be referred to the Certification Policy and Planning Department, Certification Directorate, EASA. E-mail CM@easa.europa.eu or fax +49 (0)221 89990 4459.

3. For any question concerning the technical content of this EASA Proposed Certification Memorandum, please contact:

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