



CAV Ice Protection Inc.

**Flow Down Quality Requirements for CAV Ice Protection
Inc. Suppliers (QRS)
Issue 1**

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Flow down Quality Requirements for Suppliers

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1.0 Introduction

This document defines the flow down requirements that CAV Ice Protection Inc. expect of their approved suppliers when carrying out work on any purchase orders placed by CAV Ice Protection Inc. for aerospace components, assemblies, materials or processes.

2.0 Definitions

C of C	Certificate of Conformity
EASA	European Aviation Safety Agency
FAIR	First Article Inspection Report
Quality Manager	Exact titles vary in different organisations however this is used throughout this document to refer to the member of the management team with the responsibility for the implementation and maintenance of the supplier's Quality Management System.
FAA	Federal Aviation Administration
UK CAA	United Kingdom Civil Aviation Authority
PAH	Production Approval holder
CAV Ltd.	CAV Ice Protection Ltd. Consett, UK.
CAV Inc.	CAV Ice Protection Inc. Kansas City, USA.

3.0 Scope

Parts to be supplied will be in accordance with the agreed list of parts in the STC approval list.

Limitations:

Only parts listed in the STC approval list will be covered by this agreement.

4.0 PAH Evaluation

The supplier, CAV Ltd., is working under the same Quality system as the PAH and all corrective actions requested by the PAH will be implemented.

5.0 Implementation procedures

see Quality Manual.

6.0 Internal Quality system

The methods used for the PAH to evaluate the internal Quality system of CAV Ltd. will be as per ISO9001.

The interface between CAV Inc. and CAV Ltd. will be described in this document.

7.0 Design data and configuration

Drawing, Model and Specification issues will only be called up on CAV Inc. purchase orders where they differ from the current issue. If no issue is called up manufacture and processing shall be to the latest issue of the relevant CAV, customer, or industry specification.

8.0 Manufacturing data

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Shall be as para 7 design data.

9.0 Test and inspection (including incoming)

9.1 Test and inspection.

The procedure to define the necessary test and inspection processes and the capability of ensuring that products conform to drawing shall be as required in the Quality manual of CAV Ice Protection.

9.2 First Article Requirements

The first production run carried out by each supplier shall be subject to a First Article Inspection in accordance with AS EN 9102. The forms which form part of AS EN 9102 shall be completed unless otherwise required by the prime contractor.

CAV Inc shall; rely on CAV Ltd inspections carried out at defined intervals according to their Quality manual.

These shall be carried out by approved operators controlled by CAV Ltd. Quality systems.

Measurements shall be as defined by the Quality system of CAV Inc.

Records of all inspections shall be retained as per 'record retention' Section 14.

10 Product ID and Traceability

All products for shipment to CAV Inc. shall be identified and traceable at all times. This shall include traceability to the individual batch / lot of raw material from which the goods were manufactured.

Traceability shall be sufficient to identify the following:

- Identification throughout the product life

- All products manufactured from a single batch of raw material.

- All products from the same manufacturing batch.

- The destination (delivery, scrap etc.) of all items of a batch.

- For assemblies the identities of all components used.

11 Supplier personnel competence

This shall be controlled in accordance with the Quality manual of CAV Ltd.

12 Calibration

All tools and gauges used to verify conformance of items to be supplied to CAV Ice Inc. shall be logged and subject to regular calibration. This calibration shall be in accordance with, and traceable to, the relevant National Standards.

13 Handling, storage (segregation), and Packaging Requirements

All items supplied to CAV Inc. shall be packaged sufficiently to prevent damage to components during the handling and transportation process.

Where there is a requirement for specific packaging for a particular product this shall either be quoted on the drawing, the purchase order or the relevant packaging specification .

Where non conforming items are identified then they will be controlled in accordance with the nonconforming procedure as laid down in the Quality Manual.

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14 Quality Records

14.1 Retention Periods

Those records defined in BS EN ISO 9001 or SAE AS9100 shall be available for scrutiny by the CAV Ice Protection representatives, their Customers or relevant Airworthiness / Aviation Authorities. They shall be retained for a minimum period of five years, or longer if required by contract, and in no case are they to be disposed of without the prior written approval of the Quality Manager, CAV Ltd. On completion of the five year period the supplier is required, if so instructed by CAV Inc., to deliver designated records to CAV Ltd. for custody.

14.2 Archiving of Records

Records should be archived in a safe and secure environment appropriate for the storage of paper documents.

If agreed in advance then electronic archiving may be permissible subject to the agreement of CAV Ltd. Quality Manager. Archiving of records, which are consigned from hard (paper) copies to microfilm/microfiche or electronic media (scanned images etc.), must be carried out in accordance with appropriate National Standards, e.g. BS 6498, and must be acceptable to CAV Ice Protection Inc. and the Airworthiness Authorities. The continued integrity of archived records will be subject to review by the supplier's internal Quality audit function.

15 Non-conforming product

Where non-conformance is identified within manufactured product, which will mean a departure from the design definition when the product is delivered, it shall be notified to CAV Inc. Quality department immediately upon discovery and prior to delivery of the affected items. When a non-conformance means that material "free issued" by CAV Ltd. has to be scrapped then this shall be notified to the relevant purchasing point of contact within CAV Ltd. as soon as practical. Non-conforming material shall not be delivered to CAV Inc. without receipt of prior written agreement from the CAV Inc. Quality department. Non-conforming product that is identified as having been previously supplied by CAV Ltd. (i.e. Quality escape) must be identified to the PAH as soon as practically possible.

16 Conformity documentation Release Requirements

16.1 CAV C of C

Where the purchase order requests release in accordance with the terms of the suppliers' CAV Inc. approval then the goods shall be released under the cover of a Certificate of Conformity. This shall be completed in accordance with the requirements of the Quality Manual.

16.2 Release Signatories

Each supplier shall maintain a list of approved signatories for release documentation which shall be furnished to CAV Inc. on request.

17 Provisions for Direct delivery/direct shipment

No direct shipping will be allowed without the written authority of CAV Inc.

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- 18 Assistance for continued airworthiness**
Non conforming product that is identified as having been previously supplied by CAV Ltd. (i.e. escape) must be identified and reported to the PAH as soon as is possible. See paragraph 15.
- 19 Subtier /Sub-contracting**
Where the supplier proposes to further sub-contract any processes involved in the fulfilment of the purchase order then the CAV Ice Protection Quality department shall be notified in advance.
- Sub-contracting shall only take place with companies listed on the CAV Ice Protection Approved Vendor Database unless written permission has been received in advance from the CAV Ice Protection Quality Department.
- Where sub-contracting occurs then the contents of this document in its entirety shall be flowed down to that supplier.
- 20 Changes to Supplier / Sub-contractor Organisation**
In the case of a change of ownership, name or location of the supplier, the CAV Ice Protection Quality department and Purchasing departments shall be notified in writing as soon as possible, preferably in advance of the said change.
Where there is a change to any senior personnel in the organisation e.g. Managing Director /Chief Executive Officer, Quality Manager, Operations Manager then the CAV Ice Protection Quality Department shall be informed as soon as possible.
- 21 Failures, Malfunctions and defects**
Non conforming product that is identified as having been previously supplied by CAV Ltd (i.e. escape) must be identified to the PAH as soon as is possible. See paragraph 15.
- 22 Right of Access**
CAV Inc. representatives, customer representatives and representatives of the relevant airworthiness authorities shall be permitted access to the CAV Ltd. site as and when required.
- 23 Language**
All correspondence shall be carried out in English.
- 24 Identification of responsibilities**
This shall be detailed in the PMA Quality manual
- 25 Duration of the supplier arrangement**
This duration of this arrangement will be covered while the purchase orders are in place and Quality approvals are maintained



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Approved by	Quality Manager	Date
	Vice president Operations	Date