

AEROSPACE RECOMMENDED PRACTICE

SAE ARP9114

Issued 2005-09

Direct Ship Guidance for Aerospace Companies

TABLE OF CONTENTS

1.	SCOPE	2
1.1	General	2
1.2	Purpose	2
2.	RELATED MATERIAL	3
3.	ACRONYMS	3
4.	DEFINITIONS	4
5.	DIRECT SHIP REQUIREMENTS	5
5.1	General	5
5.2	Approved Manufacturer	5
5.2.1	Procedures	5
5.2.2	Direct Ship Authorization	5
5.2.3	Records	7
5.2.4	Flowdown of Direct Ship Requirements to Suppliers	7
5.2.5	Special Considerations for Foreign Customers	7
5.3	Supplier	7
5.3.1	Records	7
5.3.2	Compliance	8
5.4	Customer	8
5.4.1	Examination of Direct Ship Articles	8
5.4.2	Documentation Required with Direct Ship Articles	8
5.4.3	Notification of Discrepancies	8

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be reaffirmed, revised, or cancelled. SAE invites your written comments and suggestions.

Copyright © 2005 SAE International

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of SAE.

TO PLACE A DOCUMENT ORDER:

Tel: 877-606-7323 (inside USA and Canada)

Tel: 724-776-4970 (outside USA)

Fax: 724-776-0790

Email: custsvc@sae.org

SAE WEB ADDRESS:

<http://www.sae.org>

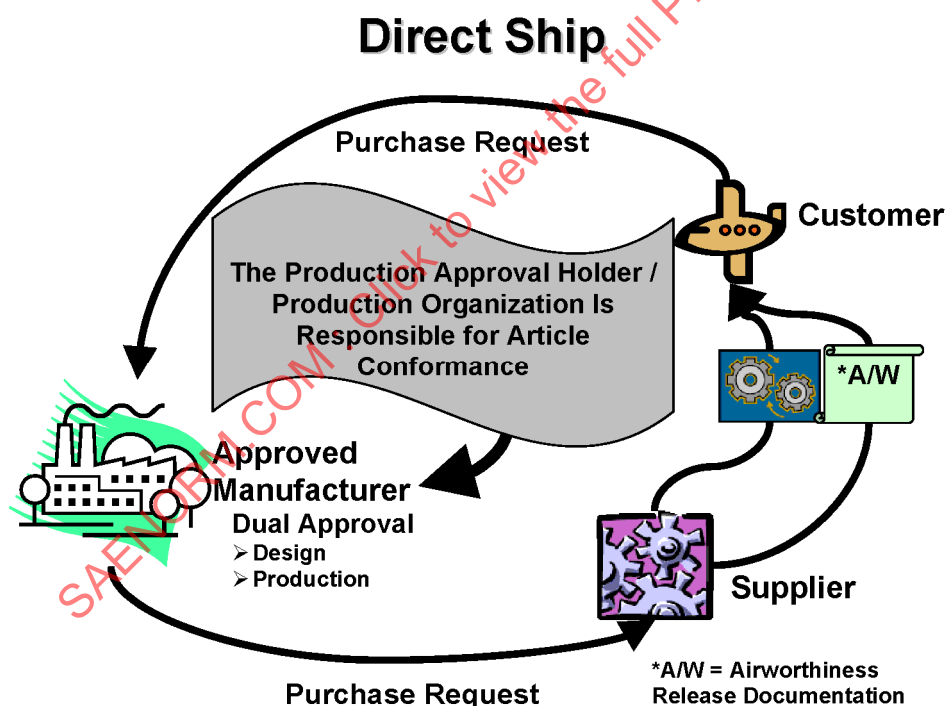
1. SCOPE:

1.1 General:

Limited to the Aerospace industry where an approved manufacturer requests a supplier to ship an article against the approved manufacturer's quality system directly to a customer. The direct ship process is not required or applicable to standard parts or military parts. In this process the approved manufacturer is responsible for assurance that the article conforms to Type Design information.

1.2 Purpose:

This document provides guidance to an approved manufacturer, their suppliers, and customers when an approved manufacturer requests a supplier to ship an article against the approved manufacturer's purchase document directly to a customer, commonly known as "Direct Ship" (see Figure 1).



2. RELATED MATERIAL:

These include but are not limited:

a. FAA Publications

1. Eligibility, Quality, and Identification of Aeronautical Replacement Parts, FAA Advisory Circular (AC) 20-62
2. Production Certificates, FAA AC 21-1
3. Supplier Surveillance Procedures, FAA AC 21-20
4. Detecting and Reporting Suspected Unapproved Parts, FAA AC 21-29

b. EASA Publications

1. Section A of the Annex to the Regulation (EC) No 1702/2003 (also called Part 21)
2. The Annex to the EASA Executive Director Decision 2003/01/RM (also called AMC and GM related to Part 21)

3. ACRONYMS:

AMC	Acceptable Means of Compliance
APIS	Approved Production Inspection System
EASA	European Aviation Safety Agency
ETSO	European Technical Standard Order
FAA	Federal Aviation Administration
GM	Guidance Material
PC	Production Certificate
PMA	Parts Manufacturer Approval
POA	Production Organisation Approval
STC	Supplemental Type Certificate

3. (Continued):

TSO Technical Standard Order

TC Type Certificate

4. DEFINITIONS:

APPROVED MANUFACTURER: A manufacturer that is responsible for the quality of an article and has obtained the right to use a design from the design approval holder (may be the same entity). This is the holder of a Production Certificate (PC), Approved Production Inspection System (APIS), Parts Manufacturer Approval (PMA), Technical Standard Order (TSO) authorization, Production Organisation Approval (POA), European Technical Standard Order (ETSO) authorisation or other production approval issued by any National Airworthiness Authority.

ARTICLE: Material, part, product, component, assembly, or appliance which is listed by the Approved Manufacturer as eligible for installation in a type certificated product or included in the design data approved by the regulatory authority, not inclusive of standard parts.

CUSTOMER: The recipient of a direct ship article (owner/operator, repair station, distributor, etc)

DELEGATED INSPECTION: The delegation of inspection authority to a supplier on behalf of the approved manufacturer.

DIRECT SHIP AUTHORIZATION: The written authorization granted by an approved manufacturer to a supplier to ship articles directly to a customer, without the articles being processed through the approved manufacturer's own facility. The direct ship authorization may be limited in scope. Some examples of limitations include the:

- a. Part number(s)
- b. Time period
- c. Customer(s)

DIRECT SHIP DECLARATION: A written statement from the supplier that accompanies a direct ship article stating the article was produced under the terms of the approved manufacturer's production approval.

PRODUCT: An aircraft, aircraft engine, or propeller.

4. (Continued):

STANDARD PART: Parts for which the design, manufacturing, inspection data, and marking requirements necessary to demonstrate conformity of the part are in the public domain and published or established as part of officially recognized standards.

SUPPLIER: The furnisher of articles or related services, at any tier, to an approved manufacturer.

5. DIRECT SHIP REQUIREMENTS:

5.1 General:

The direct ship process involves an approved manufacturer, a supplier, and a customer. In a chronological flow, the customer requests an approved manufacturer to provide an article and delineates any special requirements. The approved manufacturer determines that the article is to be ordered/produced/delivered from a supplier and requests the supplier to ship the article directly to the customer. The contracts are between the customer and the approved manufacturer and again between the approved manufacturer and the supplier (see Figure 2).

In some cases the approved manufacturer allows the customer to buy directly from the supplier. In those cases the supplier should obtain permission from the approved manufacturer for this arrangement.

5.2 Approved Manufacturer:

5.2.1 Procedures: An approved manufacturer that intends to issue direct ship authorization to a supplier must have approved quality procedures that will compensate for the absence of inspections normally conducted at the approved manufacturer's facility. Compensating factors shall include onsite evaluations of the supplier and the inspection of the article as either:

a. Source inspection performed by the approved manufacturer

or

b. Inspection by the supplier under a delegated inspection authority from the approved manufacturer

5.2.2 Direct Ship Authorization: The approved manufacturer shall provide direct ship authorization to a supplier.

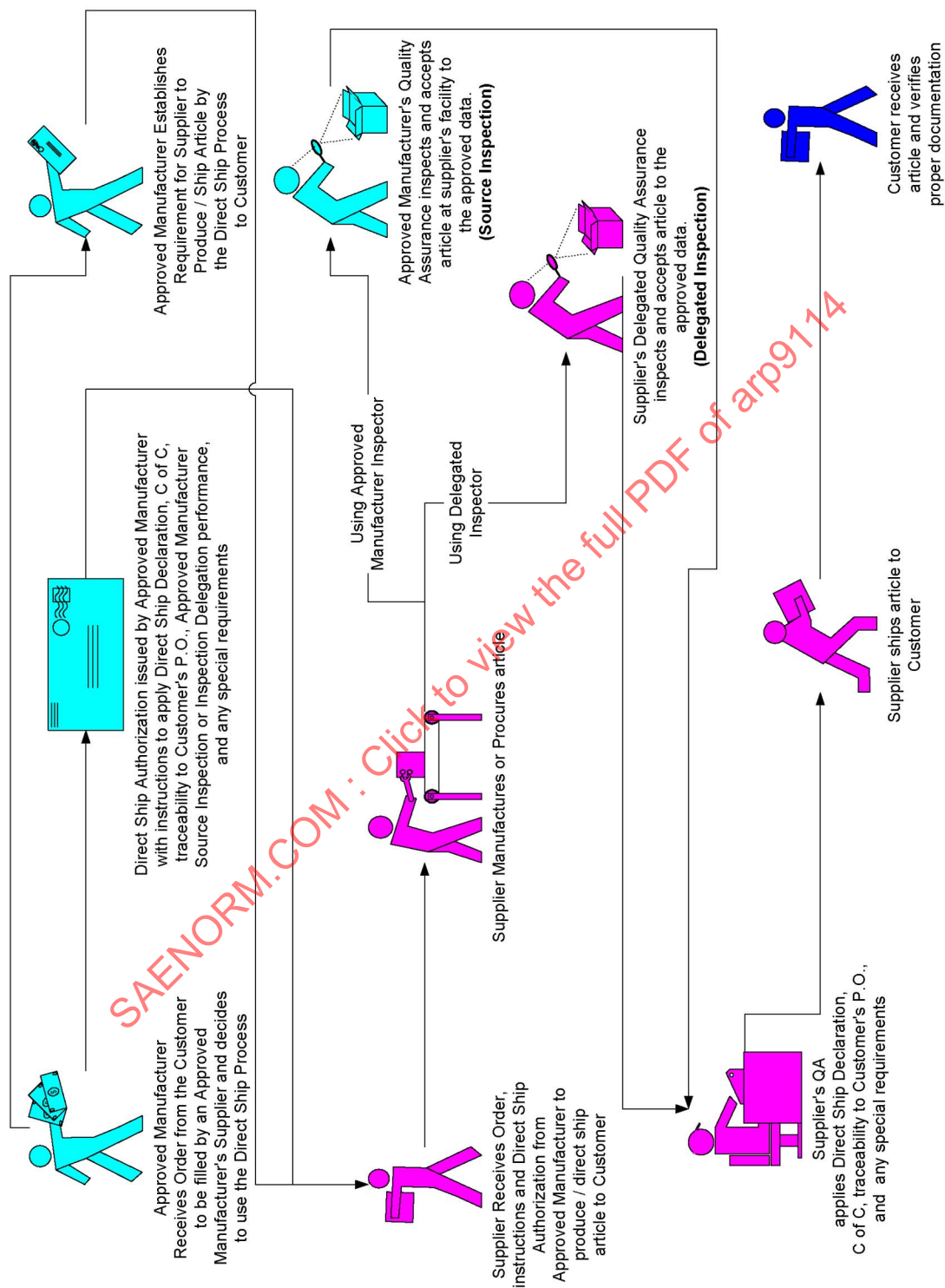


FIGURE 2 - Direct Ship Flow