



MILITARY COMMITTEE AIR STANDARDIZATION BOARD (MCASB)

10 September 2009

NSA(AIR)0991(2009)ASSE/3595

MCASB

STANAG 3595 ASSE (EDITION 5) – AIRCRAFT FITTING FOR PRESSURE REPLENISHMENT OF GAS TURBINE ENGINES WITH OIL

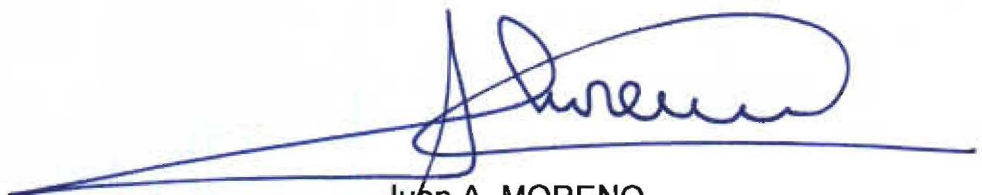
References:

- A. MAS(AIR)421-ASSE/3595 dated 11 December 1996 (Edition 4)
- B. NSA(AIR)0895(2009)ASSE/3595 dated 7 August 2009 (Edition 5)(Ratification Draft 1)

1. The enclosed NATO Standardization Agreement, which has been ratified by nations as reflected in the NATO Standardization Document Database (NSDD), is promulgated herewith.
2. The references listed above are to be destroyed in accordance with local document destruction procedures.

ACTION BY NATIONAL STAFFS

3. National staffs are requested to examine their ratification status of the STANAG and, if they have not already done so, advise the MCASB NSA, through their national delegation as appropriate of their intention regarding its ratification and implementation



Juan A. MORENO
Vice Admiral, ESP(N)
Director, NATO Standardization Agency

Enclosure:

STANAG 3595 (Edition 5)

NATO Standardization Agency – Agence OTAN de normalisation
B-1110 Brussels, Belgium Internet site: <http://nsa.nato.int>
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**NORTH ATLANTIC TREATY ORGANIZATION
(NATO)**



**NATO STANDARDIZATION AGENCY
(NSA)**

**STANDARDIZATION AGREEMENT
(STANAG)**

SUBJECT: AIRCRAFT FITTING FOR PRESSURE REPLENISHMENT OF GAS
TURBINE ENGINES WITH OIL

Promulgated on 10 September 2009

A handwritten signature in blue ink, appearing to read 'Juan A. Moreno', is written over a horizontal line. The signature is fluid and cursive.

Juan A. MORENO
Vice Admiral, ESP(N)
Director, NATO Standardization Agency

RECORD OF AMENDMENTS

N°	Reference/date of amendment	Date entered	Signature

EXPLANATORY NOTES

AGREEMENT

1. This STANAG is promulgated by the Director NATO Standardization Agency under the authority vested in him by the NATO Standardization Organisation Charter.
2. No departure may be made from the agreement without informing the tasking authority in the form of a reservation. Nations may propose changes at any time to the tasking authority where they will be processed in the same manner as the original agreement.
3. Ratifying nations have agreed that national orders, manuals and instructions implementing this STANAG will include a reference to the STANAG number for purposes of identification.

RATIFICATION, IMPLEMENTATION AND RESERVATIONS

4. Ratification, implementation and reservation details are available on request or through the NSA websites (internet <http://nsa.nato.int>; NATO Secure WAN <http://nsa.hq.nato.int>).

FEEDBACK

5. Any comments concerning this publication should be directed to NATO/NSA - Bvd Leopold III - 1110 Brussels - BEL.

NATO STANDARDIZATION AGREEMENT
(STANAG)

AIRCRAFT FITTING FOR PRESSURE REPLENISHMENT OF
GAS TURBINE ENGINES WITH OIL

Related Documents:

ISO 451:	1976	-	AIRCRAFT – PRESSURE REOILING CONNECTION
ISO 9939:	1994	-	AEROSPACE – PRESSURE REOILING CONNECTION (NEW TYPE)
STANAG 3149 DPP		-	MINIMUM QUALITY SURVEILLANCE OF PETROLEUM PRODUCTS

AIM

1. The aim of this agreement is to standardize the aircraft-installed pressure lubricating oil replenishment connections.

AGREEMENT

2. Participating nations agree that the minimum required facilities for pressure replenishment of aircraft engine oil will be applied in accordance with the following ISO standards and detailed specifications:

- a. The pressure replenishment connection will be in accordance with ISO 451 or ISO 9939.
- b. ISO 9939 replaces and shall be used in lieu of ISO 451 for all new design.
- c. Fill pressure. The fill pressure shall be approximately 1 bar (100 kPa; 15 psi) above atmospheric.
- d. Flow rate. The flow rate shall be at least 1 l/min (0,26 USG/min; 0,22 imperial gallons/min).
- e. Capacity. The capacity of the dispenser shall be at least 5 l (1,32 USG; 1,1 imperial gallons).
- f. Filtration. The filtration shall be to the standard stipulated in STANAG 3149 DPP.

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- g. Markings. The dispenser shall be clearly marked with the NATO marking in accordance with STANAG 3149 DPP.
- h. Hose. The delivery hose shall be at least 2 m in length.

IMPLEMENTATION OF THE AGREEMENT

3. This STANAG is implemented when a nation has issued instructions that all future equipment procured for its forces will conform to the specifications detailed in this agreement.

DEFENCE AGAINST TERRORISM

4. Aircraft servicing equipment and materiel shall be labelled, processed and stored in such a manner as to preclude access and tampering by unauthorized personnel. Said equipment shall be inspected and certified prior to use or application to ensure operational integrity and reliability. Flight-line servicing of aircraft and handling or connecting of servicing equipment shall be performed ONLY by authorized personnel.