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**NORTH ATLANTIC TREATY ORGANIZATION  
ORGANISATION DU TRAITE DE L'ATLANTIQUE NORD**

**NATO STANDARDIZATION AGENCY (NSA)  
AGENCE OTAN DE NORMALISATION (AON)  
1110 BRUSSELS**

24 May 2002

NSA/0544-PPS/2818

See CNAD AC/310 STANAG distribution

**STANAG 2818 PPS (EDITION 2) DEMOLITION MATERIEL: DESIGN, TESTING  
AND ASSESSMENTS**



**References:**

- a. AC/310-D/180, dated 24 August 2000 (Edition 2)(Ratification Draft)
- b. MAS(ARMY)(71)43 dated 15 January 1971 (Edition 1)

- 1. The enclosed NATO Standardization Agreement which has been ratified by nations as reflected in page (iii) is promulgated herewith.
- 2. The references listed above are to be destroyed in accordance with local document destruction procedures.
- 3. AAP-4 should be amended to reflect the latest status of the STANAG.

**ACTION BY NATIONAL STAFFS**

- 4. National staffs are requested to examine page (iii) of the STANAG and, if they have not already done so, advise the Defence Support Division through their national delegation as appropriate of their intention regarding its ratification and implementation.

  
  
Jan H ERIKSEN  
Rear Admiral, NONA  
Director, NSA

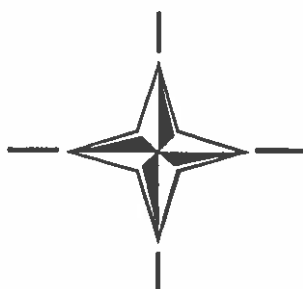
**Enclosure:**  
**STANAG 2818 (Edition 2)**

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(Edition 2)

**NORTH ATLANTIC TREATY ORGANIZATION  
(NATO)**



**NATO STANDARDIZATION AGENCY  
(NSA)**

**STANDARDIZATION AGREEMENT  
(STANAG)**

SUBJECT: DEMOLITION MATERIEL: DESIGN, TESTING AND ASSESSMENTS

Promulgated on 24 May 2002



Jan H ERIKSEN  
Rear Admiral, NONA  
Director, NSA



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RECORD OF AMENDMENTS

No.	Reference/date of amendment	Date entered	Signature

EXPLANATORY NOTES

AGREEMENT

1. This NATO Standardization Agreement (STANAG) is promulgated by the Director, NSA under the authority vested in him by the NATO Military Committee.
2. No departure may be made from the agreement without consultation with the tasking authority. 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.

DEFINITIONS

4. Ratification is "In NATO Standardization, the fulfilment by which a member nation formally accepts, with or without reservation, the content of a Standardization Agreement" (AAP-6).
5. Implementation is "In NATO Standardization, the fulfilment by a member nation of its obligations as specified in a Standardization Agreement" (AAP-6).
6. Reservation is "In NATO Standardization, the stated qualification by a member nation that describes the part of a Standardization Agreement that it will not implement or will implement only with limitations" (AAP-6).

RATIFICATION, IMPLEMENTATION AND RESERVATIONS

7. Page (iii) gives the details of ratification and implementation of this agreement. If no details are shown it signifies that the nation has not yet notified the tasking authority of its intentions. Page (iv) (and subsequent) gives details of reservations and proprietary rights that have been stated.

FEEDBACK

8. Any comments concerning this publication should be directed to NATO/NSA - Bvd Leopold III, 1110 Brussels - BE.

NAVY/ARMY/AIR

NATO STANDARDIZATION AGREEMENT  
(STANAG)DEMOLITION MATERIEL: DESIGN, TESTING AND ASSESSMENTS

Annex: National Authorities

## Related Documents:

AAP-6	NATO Glossary of Terms and Definitions (English and French).
AECTP-100	Environmental Guidelines for Defence Materiel (covered by STANAG 4370).
AOP-15	Guidance on the Assessment of the Safety and Suitability for Service of non-nuclear Munitions for NATO Armed Forces (covered by STANAG 4297).
AOP-31	Demolition Materiel, Design Principles (covered by this STANAG).
AOP-32	Demolition Materiel, Assessment and Testing for Safety and Suitability for Service (covered by this STANAG).
AOP-38	Glossary of Terms and Definitions Concerning the Safety and Suitability of Munitions, Explosives and Related Products.
ARMP-1	NATO Requirements for Reliability and Maintainability (covered by STANAG 4174).

AIM

1. The aim of this agreement is to standardize the following, for new demolition materiel to be used for NATO armed forces:
  - a. design principles and criteria for safety and suitability for service (AOP-31), and
  - b. methods for testing and assessment of safety and suitability for service (AOP-32).
2. The objective is to:
  - a. to ensure appropriately the safety and suitability for service, and
  - b. to standardize design, testing and qualification of the materiel and to avoid duplication of analyses and tests of demolition materiel supplied by another nation or service.

AGREEMENT

3. Participating nations agree to the following:
  - a. Design principles and criteria for safety and suitability for service laid down in AOP-31 will be applied for all new demolition materiel intended for use by NATO armed forces.

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- b. Methods for the testing and assessment of safety and suitability for service laid down in AOP-32 will be applied for all new demolition materiel intended for use by NATO armed forces.
  - c. All relevant information regarding the results of the analyses, testing and assessment of safety and suitability for service, achieved on the basis of this STANAG, will be provided through the National Authority responsible for the qualification of the munition, to other NATO nations upon valid request.
  - d. The concerned National Authorities will be responsible for:
    - (1) the application of the design criteria in accordance with AOP-31 to new demolition materiel;
    - (2) the acceptance for military use based on analyses and testing in accordance with AOP-32;
    - (3) the execution of the mandatory tasks mentioned or referred to in this STANAG and the associated AOPs; and
    - (4) the decision whether to classify a demolition materiel as a "new demolition materiel" in accordance with the definition given under §6 below.
4. A list of National Authorities is given at Annex.
5. Excluded from this agreement are:
- a. nuclear munitions and nuclear devices;
  - b. demolition materiel, intended for demolitions other than by means of explosives (e.g., by fire, water or mechanical means);
  - c. improvised explosive devices;
  - d. booby traps; and
  - e. training devices which contain explosive materials.

DEFINITIONS

6. The acronyms, terms and definitions published in AAP-6 and the AOP-38 are applicable. For the purpose of this agreement, the following definition applies:

new demolition materiel (French: nouveau matériel de destruction): A demolition materiel which differs from other demolition materials accepted for use by a NATO force, in terms of:

- a. design (definition in accordance with its full data package: material specifications, drawings, etc.);
- b. the users' manuals and other user instructions;
- c. the production definition (product processing, tooling, quality assurance);
- d. acceptance testing;
- e. their specific use or role; or
- f. its life cycle profile and the resulting environmental profile.

GENERAL

7. This STANAG and its related AOPs are based on:
- a. recent munition technologies such as reduction of vulnerability of munitions (MURAT - IM);
  - b. recently defined environmental loads, in particular in the areas of electricity, threats from armed attack, heating, etc.;
  - c. new test techniques; and
  - d. analysis methods for environmental aspects and the assessment of safety and reliability as described in AOP-15, AECTP-100 and ARMP-1.

DETAILS OF THE AGREEMENT

8. Details of the agreement are included in AOP-31 and AOP-32.
- a. AOP-31  
This publication provides principles for the design, characteristics and criteria with regard to safety and suitability for service applicable for demolition materiel. The AOP is intended to specify standard guidelines for design and development of new demolition materiel.
  - b. AOP-32  
This publication gives guidelines for the assessment of the safety and the suitability for service of new demolition materiel and the related test methods. The AOP is intended to determine and to standardize:
    - (1) the procedures for and the execution of the tests and handling of the results of the assessment performed to verify the compliance of the materiel with the design criteria outlined in AOP-31; and
    - (2) methods for the assessment of safety and suitability for service.

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IMPLEMENTATION OF THE AGREEMENT

9. This STANAG is considered implemented by a nation when that nation has issues instructions in accordance with this agreement for new demolition material with respect to:
  - a. design principles and criteria;
  - b. prescription of test and assessment methods;
  - c. transmission of data and nationally obtained results.

NATIONAL AUTHORITIES

This annex gives a list of National Authorities which are nationally responsible for the mandatory activities mentioned or referred to in this STANAG, AOP-31 and AOP-32.

BELGIUM:

CANADA: Director General Ammunition  
National Defence Headquarters  
101 Colonel By Drive  
OTTAWA K1A0K2

CZECH REPUBLIC:

DENMARK: Army Materiel Command  
Aarsenalvej 55  
DK-9800 HJORRING

Navy Materiel Command  
Holmen  
DK-1433 COPENHAGEN

Air Materiel Command  
Postboks 130  
DK-3500 VAERLOSE

FRANCE: Direction des Systèmes d'Armes  
Service des Programmes d'Armement Terrestre  
BP-19  
10, Place Georges Clémenceau  
F 92211 SAINT-CLOUD CEDEX

Laboratoire des Recherches Balistiques et Aérodynamiques  
Forêt de Vernon  
BP 914  
F-27207 VERNON

GERMANY: Bundesamt für Wehrtechnik und Beschaffung  
WF I-5  
Postfach 7360  
D-56057 KOBLENZ

GREECE:

HUNGARY:



ANNEX to  
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ICELAND:

ITALY: Comando Del Corpo Technico Dell Esercito  
Via Nomentana 300  
00161 ROMA

Marina Militare (Navy)  
Mariperman  
Viale San Bartolomeo 396  
19138 LA SPEZIA

LUXEMBOURG:

NETHERLANDS: Royal Naval Materiel Command (DMKM)  
Frederik-Kazerne  
Postbus 20702  
NL 2500-ES DEN HAAG

Royal Neth. Army - National Supply Agency - Ammunition Branch  
Postbus 3003  
NL 3800-DA AMERSFOORT

Royal Air Force Materiel Command (DMKLu)  
Binckhorsthof  
Postbus 20703  
NL 2500-ES DEN HAAG

NORWAY: Norwegian Army Material Command  
Weapon and Ammunition Branch/ROMAN 6.2  
OSLO Mil/Loren  
0018 OSLO 1

POLAND:

PORTUGAL:

SPAIN:

TURKEY:

UNITED KINGDOM: Ordnance Board G Division  
Walnut 3c  
MOD Abbey Wood #66  
BRISTOL BS34 8JH

UNITED STATES:

Army:  
Chairman, US Army Fuze Safety Review Board  
Attn: AMSTA-AR-FZ  
PICATINNY ARSENAL  
NJ 07806-5000

Navy and Marine Corps:  
Weapon System Explosives Safety Review Board  
Naval Ordnance Center, Code N7B  
Building 2154  
2008 Stump Neck Road  
INDIAN HEAD, MD 20640-5070

Air Force:  
USAF Non-Nuclear Munitions Safety Board  
Attn: AAC/SES  
505 N Barrancas Avenue, Suite 303  
Eglin Air Force Base  
FL 32542-6817