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28 August 2017

DOCUMENT

AC/225-D(2017)0005-REV1

Silence Procedure ends:

29 Sep 2017 15:30

Copy: NSO

NATO ARMY ARMAMENTS GROUP (NAAG)

Revised Standardization Task (ST) for a STANREC covering an Allied Engineering Publication on Aircrew Individual Protective Equipment (IPE)

Ref. A. AC/225(CBRND)D(2017)0002, dated 3 November 2016

Ref. B. AC/225-D(2017)0005, dated 13 March 2017

1. The draft Standardization Task (ST) sent to NAAG per reference B was not approved, with a break of silence from one nation being recorded.
2. The revised draft ST at Enclosure 1 has been rewritten taking those concerns into account and this ST for a STANREC on Aircrew Individual Protective Equipment (IPE) is hereby re-submitted to the Delegated Tasking Authority (NAAG) for approval in accordance with the standardization process (AAP-3(J)).
3. Unless the NAAG Staff Officer hears to the contrary **by 29 September 2017**, the ST will be assumed to have been approved by the NAAG and the JCBRND CDG tasked to perform the task in accordance therewith.

(Signed) O. TASMAN

1 Enclosure

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Original: English

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STANDARDIZATION TASK

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Originator: NATO Army Armaments Group (AC/225- [AC/225-D(2017)0005]
NAAG)

To: JCBRND-CDG

Cc: NSO

STANDARDIZATION TASK

Subject: STANREC covering and Allied Engineering Publication on Aircrew
Individual Protective Equipment (IPE)

Reference:

Enclosure(s) None

A. CAPABILITY

- The proposed standard will assist in the development, acquisition and evaluation of a flexible, variable, lightweight CBRN ensemble, to include the respirator, for fast jet pilot and other closed cockpit personnel and helicopter pilot and other open cockpit personnel conducting air operations under CBRN challenge or threat.

B. STANDARDIZATION REQUIREMENTS

Context in which the ST takes place.

- *Field of standardization: Material with strong links to the operational context.*
- *Operational domain: Joint*
- *Services/formations: Joint and Air*
- *External forum where the task also have application: This standard will be applicable to Partnership nations and peacekeeping activities.*
- *Military or civilian standards already in existence or being prepared which could be appropriate for the Alliance: None*
- *How large a requirement is it? Very large.*
 - *Many Thousands pieces of equipment (if implemented).*
 - *All NATO nations (if implemented) conducting and/or supporting air operations requiring a CBRN Defence capabilities in the affected services/formations.*

C. MILITARY REQUIREMENTS

The Aircrew IPE addressed by this proposal will provide an holistic, integrated, modular CBRN protection system during in-flight operations for fast jet pilot and other closed cockpit personnel and helicopter pilot and other open cockpit personnel conducting air operations under CBRN challenge or threat. Additionally, based on the threat and operational requirements, the aircrew will also perform extended ground duties such as preflight, post-flight, rearming, cargo/passenger loading and unloading, and refueling of aircraft in a CBRN environment. Examples of operational requirements that will be addressed in this effort include: unassisted donning, facilitation of removal/elimination of liquid wastes during operations, durability,

reliability, maintainability, and survivability in all operational environments, as well as compatibility with existing aircrew respirators and aircraft equipment.

D. TECHNICAL REQUIREMENTS

There are various alternatives available from industry that could be candidates to satisfy the below-the-neck requirement. However, the challenge will be to identify the technology that could be compatible with existing CBRN aircrew respirators and provide reduced heat stress imposed by current CBRN protective clothing used to conduct aircrew flight and ground operations. Examples of the technical requirements that will be addressed in this effort include: percutaneous protection against liquid, particulate and vapour CBRN agents, flame and ignition resistance, roto wash, reduced weight and bulk, as well as ocular and respiratory protection requirements compatible with air platform operations.

E. SCHEDULE AND PRIORITY

The standard will be completed in less than 2 years and is classed as a LOW priority. The following is the proposed schedule:

- ☐ Start of Work: May 17
- ☐ Study Draft 1: May 18
- ☐ Study Draft 2: May 19
- ☐ Final/Approval Draft: Sep 19



F. OTHER RELEVANT INFORMATION

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G. INTENDED CLASSIFICATION OF STANDARD

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H. RELATED DOCUMENTS

- STANREC 4548: Operational Requirements, Technical Specifications and Evaluation Criteria for CBRN Protective Clothing, Allied Engineering Publication (AEP)-38.
- STANREC 4726: Recommended Chemical, Biological & TIC Challenge Level (AEP 72).
- STANREC 4727: Combined Operational Characteristics, Technical Specification and Evaluation Tests and Criteria for Protective Masks, (AEP-73).
- STANREC 4738 Ed 1: Low Burden Chemical, Biological, Radiological and Nuclear (CBRN) Protective Clothing (AEP 85).

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- STANAG 3497: Aeromedical Training of Aircrew In Aircrew CBRN Equipment and Procedures.
- STANAG 3501: Performance of Portable Filter-Blowers for Aircrew CBRN Respirators
- STANAG 3943: Physiological Requirements for Aircrew CBRN Defence Assemblies Used In Flight
- STANAG 2499: The Effect of Wearing CBRN Individual Protective Equipment (IPE) on Individual and Unit Performance During Military Operations, (ATP-65)
- STANAG 3198 AMD - Functional Requirements Of Aircraft Oxygen Equipment and Pressure Suits

I. INTEROPERABILITY REQUIREMENT AND PARTNER INVOLVMENT

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J. PROMULGATION CRITERIA

The approval under silent procedure (STANREC)

K. NATO EFFECTIVE DATE (NED)

- *N/A*

TA/DTA Chairman's SIGNATURE BLOCK

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