

MILITARY COMMITTEE LAND STANDARDIZATION BOARD (MC LSB)

23 February 2007

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MC LSB Distribution

**STANAG 2989 ENGR (EDITION 2) – TRANSFER OF BARRIERS**

Reference:

NSA(ARMY)0220(2006)ENGR/2989, dated 12 April 2006 (Edition 2) (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 reference listed above is 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 MC LSB, NSA, through their national delegation as appropriate of their intention regarding its ratification and implementation.

A handwritten signature in black ink, appearing to read 'J. MAJ'.

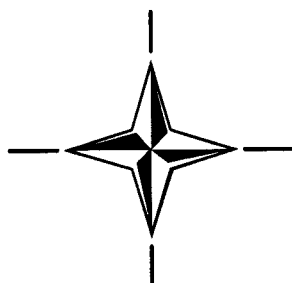
J. MAJ  
Major General, POL(A)  
Director, NSA

Enclosure:

STANAG 2989 (Edition 2)

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**NORTH ATLANTIC TREATY ORGANIZATION  
(NATO)**



**NATO STANDARDIZATION AGENCY  
(NSA)**

**STANDARDIZATION AGREEMENT  
(STANAG)**

SUBJECT: TRANSFER OF BARRIERS

Promulgated on 23 February 2007

A handwritten signature in black ink, appearing to read 'J. MAJ', is positioned above the printed name and title of the signatory.

J. MAJ  
Major General, POL(A)  
Director, NSA

A small, stylized handwritten signature or mark, possibly initials, is located to the left of the printed name and title of the signatory.

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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 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.

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(Edition 2)

NAVY/ARMY/AIR

NATO STANDARDIZATION AGREEMENT  
(STANAG)

TRANSFER OF BARRIERS

- Annexes:
- A. Major Considerations
  - B. Transfer Procedure Check Lists
  - C. Commander's/Staff Officer's Hand-Over Aid for use when undertaking the Transfer of a Barrier
  - D. Obstacle Hand-Over Aid
  - E. National restrictions to accept obstacles that contain APM's and/or other explosive devices
  - F. Obstacle Folder

Related Documents:

|                    |                                                                                              |
|--------------------|----------------------------------------------------------------------------------------------|
| STANAG 2017 ENGR - | Orders to the Demolition Guard Commander and Demolition Firing Party Commander (non-nuclear) |
| STANAG 2036 ENGR - | Land Minefield Laying, Marking, Recording and Reporting Procedures                           |
| AEngrP-2           | Land Forces Combat Engineers Messages Reports and Returns (R2)                               |
| APP-6              | Military Symbols for Land Based Systems                                                      |

AIM

1. The aim of this agreement is to outline the procedures to be used by NATO forces for the transfer of barriers between military forces of different nationalities.
2. Participating nations agree to use the barrier transfer procedure as detailed in this STANAG.

AGREEMENT

3. This procedure may be adapted to suit transfers at any command/formation/unit level, but it is intended primarily for use at brigade/division level.

DETAILS OF THE AGREEMENT

4. The requirements to transfer operational sectors up to division, and possibly even corps level, is an important part of military operations. A variety of situations may call for adjustments in command responsibility, particularly in the case of multinational formations.

5. An essential part of the transfer of operational sectors will be the hand-over of barriers from the military formation in control (outgoing formation) to the incoming formation. This hand-over may be complicated by the lack of a common language, and differences between Armies in terms of organization, doctrine, training, barrier munitions, equipment and capabilities. It may be found that there are differences between the incoming and outgoing Commanders' concepts of operations.

6. This STANAG has been developed to provide a common and simple procedure and aids for the transfer of barriers between nations, with a view to minimizing the problems inherent in such an operation by highlighting the major factors to be considered. These major considerations, which must be carefully weighed when a barrier transfer is being planned between allied formations, are listed in Annex A.

7. The barrier transfer procedure detailed in this STANAG is based on the list of actions (Annex B) necessary to accomplish a transfer.

8. For clarity, the transfer operation has been divided into three separate phases:

- a. Liaison and co-ordination
- b. Planning and preparation
- c. Execution

9. The steps within these phases are listed in chronological order. Whilst it is desirable to follow this order, it is not essential. Whenever possible the maximum concurrent activity should be planned.

10. The transfer procedure is applicable to any sector transfer operation, e.g. reinforcement, relief or counter-attack, and may be adapted for transfers at any command, formation or unit level.

11. To assist transfer operations further, two/tri-lingual aids are included, in English, French and that of the user nation, if different:

- a. Annex C. Commander's/Staff Officer's Handover Aid designed primarily for use by unit commanders or their representatives and by staff officers, when transferring the control of barriers.

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- b. Annex D. Unit Obstacle Handover Aid, designed primarily for use by troop/platoon leaders and Non-Commissioned Officers (NCOs) in the field at the obstacle site.

12. During the conduct of a barrier transfer operation, the following basic principles should be adhered to:

- a. Throughout both the planning and execution of transfer of barriers there must be close liaison and co-ordination between the engineer and operations staffs, and by both with combat troops involved at the tactical level.
- b. The incoming and outgoing combat engineers should establish a common planning cell at the command post of the outgoing formation.
- c. The initial engineer liaison team must be headed by the highest-level engineer commander/staff officer available to negotiate the steps of the transfer. In addition, personnel having the necessary linguistic and technical expertise should also be included.
- d. The outgoing formation is responsible for providing all available barrier documentation in an understandable and useable format and in accordance with STANAG 2017, 2036, 2430 and AAP-6. A format for the Obstacle Folder is proposed in annex F.
- e. Engineer representation should always be available from the appropriate command level of the territorial forces of the host nation, especially if pre-constructed obstacles have to be transferred. Arranging suitable engineer representation is the responsibility of the outgoing combat engineers.
- f. Support to the incoming engineers should be provided to the maximum extent possible by the outgoing formation.
- g. The outgoing formation should consider the requirement for detachments or liaison officers to ensure the command, control and/or technical safety of the reserved demolitions.
- h. The outgoing formation may have to consider the requirement to change or modify existing or planned barriers in order to support the incoming formation's operational plans, or due to national restrictions to use certain barrier munitions (See Annex E).
- i. Once the physical transfer of targets has commenced, incoming engineer or combat troop parties should be directed to the targets and be thoroughly briefed by their outgoing counterpart at the obstacle, in accordance with Annex D.

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- j. When no engineers are available, fully qualified non-engineer personnel must be provided to conduct the hand-over of incomplete obstacles such as prepared demolitions or gaps in minefields.
- k. The outgoing formation is responsible for providing full information on the type, quantities and location of all engineer material being left behind.
- l. The decision to transfer minefields is subject to technical limitations (as in the case of remotely controlled minefields), and restrictions or bans imposed by nations reflected in ANNEX E.  
The tactical commander of a multinational force therefore, must be aware of the restrictions applicable to the transfer of remotely controlled minefields and APM's by the national components of his force.
  - (1) In the case of remotely controlled minefields four (4) accepted procedures are to be considered by the out-going and in-coming force commanders. These are:
    - (a) Activate and leave the minefield to self-destruct, self-neutralization or self-deactivation at a stated time.
    - (b) Provide a minefield monitoring team with Remote Control Unit (RCU).
    - (c) Removal of the minefield.
    - (d) Remote transfer (digital, via RF) of control from the controlling commander to the successor commander (limited solely to NATO forces having interoperable Remote Control Units and mines)
  - (2) The outgoing and incoming force commanders at every level of command must be aware of:
    - (a) The outgoing force commander will/will not provide a minefield monitoring team with RCU equipment for the duration of the planned life of the minefield.
    - (b) Tactical control relationship of the controlling unit to the force commander concerning deactivation, reverting the mines to a deactivated state, removal, and transfer of laid mines.
    - (c) Capabilities of the RCU such as an "on-off-on" setting, allowing a safe crossing of the obstacle.
    - (d) Required documentation under the provisions of STANAG 2036, STANAG 2017, and STANAG 2430 when appropriate.

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IMPLEMENTATION OF THE AGREEMENT

13. This STANAG is implemented when necessary orders and/or instructions have been issued to the forces concerned.

MAJOR CONSIDERATIONS

1. Overall Situation:

- a. What tactical situation will be encountered? What is the friendly and enemy land and air situation?
- b. What type of operation is to be conducted - relief in place, reinforcement, boundary change, or counter-attack?
- c. Will it be a night or day move/operation?
- d. What coordination and communication facilities are available? Will radio silence be imposed? Are there restrictions on forward movement for liaison and reconnaissance?

2. Time and Space:

- a. Where are forces currently located? What are routes and distances to assembly areas and area of operations? Should engineers be given movement priority?
- b. Who provides engineers with support for their movement?
- c. What time is available for liaison, coordination, planning, briefing, movement and handover-takeover?

3. Engineer Forces:

- a. What differences are there in terms of size, organization, equipment and capabilities?
- b. What differences exist in terms of training and doctrine?
- c. How familiar are the incoming troops with both the area of operations and their allied counterparts?

4. Status of Obstacle Plan:

- a. What is the most up to date status of the obstacle plan? From where/whom is this information available?

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- b. What is the current commitment to the obstacle plan? What work is left to be done to complete the plan?

5. Barrier Munitions:

- a. What national types of barrier munitions, equipment and demolition accessories are being used?
- b. What is the compatibility/interchangeability of barrier munitions compared with the munitions, equipment and accessories of the incoming engineers?
- c. Are the incoming engineers familiar with the munitions, equipment and accessories being used?
- d. What supplies are still required? How are the barrier munitions requested and supplied? What transportation is required and who provides it?
- e. What special equipment is required to use existing barrier munitions?
- f. Is there any national restriction on the use of any kind of munitions?

6. Control of Reserved Demolitions:

- a. What are the total number and the locations of the reserved demolitions?
- b. What was the reason for designating these demolitions as reserved demolitions? Does the reason still exist?
- c. What is the engineer and combat troop manpower commitment to these reserved demolitions?
- d. What arrangements must be made to ensure continuity of command and control of these reserved demolitions? How and when will authority be transferred?
- e. What instructions have been given to the Authorized Commander concerning the firing of reserved demolitions?

7. Barrier Documentation:

- a. What differences exist in terms of the format, use and distribution of barrier documentation?
- b. What differences are there in reports and returns, data bases and documents concerning obstacles, target numbering systems, terminology and symbols used to represent obstacles?

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- c. Is engineer information and intelligence available in an easily transferable and understandable format?
  - d. Can the necessary obstacle documentation be quickly converted into an understandable and useable format?
  - e. What is the classification of the required obstacle documentation?
  - f. Is there any problem regarding transfer in terms of national control, national regulations, and accounting procedures? (See Annex E)
8. Other Engineer Commitments: What additional engineer commitments are there in the area, (e.g. mobility support)?
9. Commander's Concept of Operations:
- a. Does the current and planned barrier system support the new commander's concept of operations?
  - b. What changes or modifications are required in the obstacle plan and who will undertake them?
10. Mutual Engineer Support:
- a. Is there a requirement for any exchange of engineer support?
  - b. Must the outgoing engineers complete the obstacle tasks?
  - c. Should they provide support to the incoming formation?
  - d. If so, what support is required, for how long, and what command and control arrangements are necessary?

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ANNEX B TO  
STANAG 2989  
(Edition 2)

TRANSFER PROCEDURE CHECK LIST

Appendices to ANNEX B:

1. Phase I -Liaison and Co-ordination
2. Phase II -Planning and Preparation
3. Phase III -Execution

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APPENDIX 1 TO  
ANNEX B TO  
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(Edition 2)

TRANSFER PROCEDURE CHECK-LIST  
PHASE 1 – LIAISON AND COORDINATION

| ACTION                                                                                                                                                                                                                                                                                                             | FORMATION RESPONSIBLE |          | REMARKS                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                    | OUTGOING              | INCOMING |                                                                                                                                                                                                                                                                                                |
| 1. <u>On Notification of Operation</u>                                                                                                                                                                                                                                                                             |                       |          |                                                                                                                                                                                                                                                                                                |
| a. Begin preparation of barrier documentation and engineer information/intelligence for handover.                                                                                                                                                                                                                  | *                     |          | - Preparation should start at the first indication that a transfer operation is to take place.                                                                                                                                                                                                 |
| b. Provide engineer liaison team.                                                                                                                                                                                                                                                                                  | *                     | *        | - Liaison should start as soon as possible after notification of the operation.                                                                                                                                                                                                                |
| c. Arrange engineer representation from appropriate command level.                                                                                                                                                                                                                                                 | *                     |          | - Liaison team should be led by the highest level engineer commander/staff officer available with necessary technical and linguistic capability.<br>- Liaison team should have with them the Commander's/Staff Officer's Handover Aid at Annex C. They should be familiarised with STANAG 2989 |
| 2. <u>Initial Operations Situation Briefing</u>                                                                                                                                                                                                                                                                    |                       |          |                                                                                                                                                                                                                                                                                                |
| To include friendly forces, enemy forces, current tactical situation and a discussion of forthcoming operations. The discussion to include the commanders concept, type of operation, communication facilities and restrictions, Timing for change of command, routes and assembly areas, and movement priorities. | *                     |          | - Presented to all staff liaison elements of the incoming formation.                                                                                                                                                                                                                           |

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| ACTION                                                                                                                                                 | FORMATION RESPONSIBLE |          | REMARKS                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                        | OUTGOING              | INCOMING |                                                                                                                                       |
| 3. <u>Full Engineer Situation Briefing</u>                                                                                                             |                       |          |                                                                                                                                       |
| a. Include the outgoing engineer resources situation and major on-going commitments.                                                                   | *                     |          |                                                                                                                                       |
| b. Include the up-to-date status of the obstacle plan and obstacle preparation.                                                                        | *                     |          |                                                                                                                                       |
| c. Include details of future planning.                                                                                                                 | *                     |          |                                                                                                                                       |
| d. Discuss engineer support required for the forthcoming operation.                                                                                    | *                     | *        |                                                                                                                                       |
| 4. <u>Transfer of Barrier Documentation and Provision of Other Engineer Information/Intelligence</u>                                                   |                       |          |                                                                                                                                       |
| a. Provide current obstacle plan overlay.                                                                                                              | *                     |          | - A key to all symbols used and not contained in APP-6 must be provided with the overlay.                                             |
| b. Provide necessary detailed obstacle documents (Target lists including status, minefield records, obstacle folders, data bases, firing orders, etc.) |                       |          | - One standard target list is required, it should include details about resource requirements and the status of obstacle preparation. |
| c. Provide all pertinent engineer information and intelligence, to include terrain, natural and artificial obstacles, resources and material, etc.     |                       |          | - To include military and civilian considerations.                                                                                    |
| 5. <u>Estimate of Engineer Situation</u>                                                                                                               |                       |          |                                                                                                                                       |
| a. Consider current and planned engineer tasks and commitments particularly in the light of the new concept of operations.                             | *                     | *        | Much of this planning will be done jointly.                                                                                           |

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| ACTION                                                                                                                                                                                          | FORMATION RESPONSIBLE |          | REMARKS                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                 | OUTGOING              | INCOMING |                                                                                                                                                     |
| b. Consider engineer resources, including differences in size, organization, equipment and capability of engineer forces involved.                                                              | *                     | *        |                                                                                                                                                     |
| c. Evaluate capacity of all available engineer forces to complete the required tasks within the time schedule established for the operation.                                                    | *                     | *        | - Outgoing engineers may be heavily committed and/or reduced in strength.                                                                           |
| d. Determine requirement for mutual engineer support. (e.g. Is it necessary for outgoing engineers to provide manpower and/or equipment- resources to support operation of incoming formation?) |                       |          | - Routes may have to be cleared for counter-attacking forces.                                                                                       |
| e. Determine division of responsibility for mutual engineer support.                                                                                                                            | *                     | *        | - Command and control relationships must be clearly defined.                                                                                        |
| 6. <u>Required Modifications</u>                                                                                                                                                                |                       |          |                                                                                                                                                     |
| a. Determine any modification to existing or planned obstacles required to support the new concept of operations.                                                                               |                       |          | - This planning will be done jointly.                                                                                                               |
| b. Determine how to accomplish modifications, (i.e. who is responsible for providing manpower/equipment resources/control protection/etc)                                                       |                       |          | - Maximum work on obstacle plan and/or modifications should be accomplished by outgoing formation to relieve the burden on the incoming formations. |
| 7. Start detailed planning and be prepared to carry out follow-up coordination as required.                                                                                                     | *                     | *        |                                                                                                                                                     |

TRANSFER PROCEDURE CHECK-LIST  
PHASE II – PLANNING AND PREPARATION

| ACTION                                                                                                                                                                                                   | FORMATION RESPONSIBLE |          | REMARKS                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                          | OUTGOING              | INCOMING |                                                                                                                                                        |
| 1. <u>Information Preparation</u><br>Convert all information received from outgoing formation into useable documentation (e.g. language, format, ADP) and have it ready for distribution when necessary. |                       | *        |                                                                                                                                                        |
| 2. <u>Detailed Planning</u><br>Include technical and operational aspects for employment of engineers in the forthcoming operation.                                                                       |                       | *        | - Must include the conduct of any reconnaissance that may be required. Coordination with combat support and combat service support could be necessary. |
| 3. <u>Mutual Support</u><br>a. Modify obstacle plan.<br>b. Prepare for support of and/or handover to incoming formation.                                                                                 | *<br>*                | *        |                                                                                                                                                        |
| 4. <u>Follow-up Coordination</u><br>This will include division of responsibilities, support requirements, sub-units liaison/coordination, final timings and detailed task assignment.                    | *                     | *        | - Attempts must be made to ensure that incoming engineer sub-units are not required to deal with more than one equivalent outgoing sub-unit.           |

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| ACTION                                                                                                                                                                                                                 | FORMATION RESPONSIBLE |          | REMARKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                        | OUTGOING              | INCOMING |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <p>5. <u>Issue of Orders</u></p> <p>This will include, where appropriate, relevant obstacle plans, documentation, detailed task assignment, timings, communications and sub-unit coordination.</p>                     | *                     | *        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <p>6. <u>Rehearsals</u></p> <p>This will include briefing or refresher on necessary equipment, munitions and procedures.</p>                                                                                           |                       | *        | <ul style="list-style-type: none"> <li>- When time is available.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <p>7. <u>Liaison Officers/Guides</u></p> <p>Position liaison officers or guides at important sites or with certain HQs to ensure ease of movement, full coordination and command/control of important demolitions.</p> | *                     | *        | <ul style="list-style-type: none"> <li>- Continuity of command/control of reserved demolitions must be ensured.</li> <li>- Liaison officers with suitable communications may be required at joint command/control HQs.</li> <li>- Demolition Order Forms 2017 must not change until the incoming formation assumes full responsibility for the sector.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                                                                                                                                                                        |                       |          | <p>Para 8.g. of STANAG Form 2017 (Demolition Order Form) will be used only when the Authorized Commander (AC) is changed to another AC of the same nationality.</p> <p>Therefore this paragraph will not be used for transfer of AC when allied formations of different nationality are involved. In this case the following procedure will be used: The incoming AC or his most senior representative, the Demolition Guard Commander and the Demolition Firing Party Commander will meet the outgoing AC or his most senior representative, Demolition Guard Commander and Demolition Firing Party Commander and will execute the hand-over/take-over of the target. Normally, the incoming AC will issue a new Demolition Order Form STANAG 2017,</p> |

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| ACTION | FORMATION RESPONSIBLE |          | REMARKS                                                                                                                                                              |
|--------|-----------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | OUTGOING              | INCOMING |                                                                                                                                                                      |
|        |                       |          | using his national edition of that form. As a principle the AC, Demolition Guard Commander and Demolition, Firing Party Commander should be of the same nationality. |

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TRANSFER PROCEDURE CHECK-LIST  
PHASE III – EXECUTION

| ACTION                                                                                                                                                                                                  | FORMATION RESPONSIBLE |          | REMARKS                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------|------------------------------|
|                                                                                                                                                                                                         | OUTGOING              | INCOMING |                              |
| 1. <u>Movement</u>                                                                                                                                                                                      |                       |          |                              |
| a. From staging areas to tactical assembly areas into sector.                                                                                                                                           |                       | *        |                              |
| b. Maximum use of advance parties, liaison officers guides, etc.                                                                                                                                        | *                     | *        |                              |
| c. Establish pre-designated rendezvous points and bivouac or cantonment areas.                                                                                                                          | *                     | *        | - Consider movement priority |
| 2. <u>Contact at Key Unit and Sub-Units</u>                                                                                                                                                             |                       |          |                              |
| a. Establish communications and liaison                                                                                                                                                                 | *                     | *        |                              |
| b. Provide latest situation up-date.                                                                                                                                                                    | *                     |          |                              |
| c. Provide latest information/documentation and status of obstacle plan.                                                                                                                                | *                     |          |                              |
| d. Final handover coordination, including check of all Demolition Order Forms (STANAG 2017)                                                                                                             | *                     | *        |                              |
| e. Last orders before the handover at platoon level for the relieving formation. Whenever possible the platoon leader of the outgoing troops is the guide for the incoming unit. Handover of documents. |                       | *        |                              |

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| ACTION                                                                                                   | FORMATION RESPONSIBLE |          | REMARKS                                      |
|----------------------------------------------------------------------------------------------------------|-----------------------|----------|----------------------------------------------|
|                                                                                                          | OUTGOING              | INCOMING |                                              |
| 3. <u>On-Site Obstacle Handover</u>                                                                      |                       |          |                                              |
| a. Movement into position- contact with the tactical unit present.                                       | *                     | *        |                                              |
| b. Individual obstacle handover.                                                                         | *                     | *        |                                              |
| c. Establish communications as required and confirm handover to own higher HQ.                           | *                     | *        | - Use Unit Obstacle Handover Aid at Annex D. |
| d. Complete any outstanding work.                                                                        |                       | *        |                                              |
| 4. <u>Reporting</u>                                                                                      |                       |          |                                              |
| Confirm to responsible higher HQs at every level once responsibility for given sectors has been assumed. | *                     | *        |                                              |

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ANNEX C TO  
STANAG 2989  
(Edition 2)

## COMMANDER'S / STAFF OFFICER'S HAND-OVER AID FOR USE WHEN UNDERTAKING THE TRANSFER OF A BARRIER

### AIDE-MEMOIRE A L'USAGE DES COMMANDANTS DE FORMATION ET DES OFFICIERS D'ETAT MAJOR POUR LE TRANSFERT DE BARRAGES

| ENGINEER SITUATION ORIENTED VOCABULARY                                                             | LOCUTIONS CARACTERISTIQUES<br>DU GENIE                                                                                  | To be filled in by each nation |
|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| Transfer of a Sector                                                                               | Passage / prise en compte d'un secteur                                                                                  |                                |
| 1.- Getting Past the Guard                                                                         | 1.- Présentation au poste de garde                                                                                      |                                |
| a (1) I am Commander of ....<br>(2) I am staff officer to<br>(3) I am liaison officer from .....   | a. (1) Je commande ...<br>(2) Je fais partie de l'Etat-major de ....<br>(3) Je suis l'officier de liaison de ....       |                                |
| b. My rank and name is ....                                                                        | b. Je suis le .... (grade et nom).                                                                                      |                                |
| c. This is my identity card.                                                                       | c. Voici ma carte d'identité.                                                                                           |                                |
| d. I wish to see:<br>(1) The Commander;<br>(2) The Operations / G3 staff<br>(3) The Engineer staff | d. J'aimerais voir :<br>(1) le commandant<br>(2) le bureau opérations/G3<br>(3) l'officier responsable de l'appui Génie |                                |
| e. Where shall I park my vehicle?                                                                  | e. Où puis-je laisser mon véhicule ?                                                                                    |                                |
| 2.- General Situation                                                                              | 2.- Situation générale                                                                                                  |                                |
| a. May I have a copy of your Obstacle Overlay?<br>Please, will you explain it?                     | a. Puis-je avoir un exemplaire du calque des obstacles ? Pourriez-vous me l'expliquer ?                                 |                                |
| b. Which targets have been completed?<br>Which routes are closed?                                  | b. Quels sont les obstacles achevés?<br>Quels sont les itinéraires fermés ?                                             |                                |

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| ENGINEER SITUATION ORIENTED VOCABULARY                                                                                                                                                                                                                                                                                                                                                                                                                           | LOCUTIONS CARACTERISTIQUES<br>DU GENIE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | To be filled in by each nation |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| <p>c. Which targets are prepared but passable?</p> <p>d. Which targets are still being prepared?</p> <p>e. What is the estimated time for completion?</p> <p>f. Has the Artillery any registered target on this obstacle plan?</p> <p>g. Which routes have to be kept open for your formation?</p> <p>h. Which targets can only be completed / closed / fired on orders of the:<br/>(1) Brigade Commander<br/>(2) Division Commander<br/>(3) Corps Commander</p> | <p>c. Quels sont les obstacles réalisés mais toujours franchissables?</p> <p>d. Quels sont les obstacles en cours d'achèvement ?</p> <p>e. Quand estimez-vous qu'ils seront achevés ?</p> <p>f. Y a t il sur ce plan d'obstacles des objectifs repérés par l'artillerie ?</p> <p>g. Quels sont les itinéraires à maintenir ouverts pour votre unité ?</p> <p>h. Quels sont les obstacles qui ne pourront être achevés / fermés / mis à feu que sur ordre :<br/>(1) du commandant de brigade ?<br/>(2) du commandant de division ?<br/>(3) du commandant de corps d'armée ?</p> |                                |
| <p>4.- Obstacle Schedule Briefing</p> <p>a. May I have a copy of your obstacle schedule?</p> <p>b. Please show me how identify:<br/>(1) Tactical Minefields<br/>(2) Nuisance / Point Minefields<br/>(3) Protective Minefields<br/>(4) Phony Minefields<br/>(5) Demolitions Targets<br/>(6) Groups of craters<br/>(7) Roadblocks / Abatis<br/>(8) Anti-tank ditches<br/>(9) Any other obstacles?</p>                                                              | <p>4.- Briefing sur le tableau d'obstacles</p> <p>a. Puis-je avoir un exemplaire de votre tableau d'obstacles ?</p> <p>b. Comment puis-je identifier :<br/>(1) les champs des mines tactiques ?<br/>(2) les champs de mines de harcèlement ?<br/>(3) les champs de mines de protection ?<br/>(4) les faux champs de mines ?<br/>(5) les ouvrages à détruire ?<br/>(6) les groupes d'entonnoirs ?<br/>(7) les barrages routiers / abattis ?<br/>(8) les fossés antichars ?<br/>(9) les autres types d'obstacles ?</p>                                                           |                                |

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| ENGINEER SITUATION ORIENTED VOCABULARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | LOCUTIONS CARACTERISTIQUES<br>DU GENIE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | To be filled in by each nation |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| <p>c. What are the Map grids of this target?</p> <p>d. Which targets are complete and closed?</p> <p>e. Which targets are prepared but passable?<br/>Are they at State 1 (safe) or State 2 (Armed)?</p> <p>f. Which targets are still being prepared?</p> <p>g. What is the estimated time of completion?</p> <p>h. Which targets are planned but not yet started?</p> <p>i. What stores are required for these planned targets?</p> <p>j. Are stores available for completion of this task? If so, where are they?</p> <p>k. Which targets have a Firing Party / Closure Party? Have written orders in accordance with STANAG 2017 been issued?</p> <p>l. Which unit is providing this Firing / Closure Party?</p> <p>m. Which targets have a Demolition Guard? Have written orders in accordance with STANAG 2017 been issued?</p> | <p>c. Quelles sont les coordonnées de cet obstacle ?</p> <p>d. Quels sont les obstacles achevés et fermés ?</p> <p>e. Quels sont les obstacles réalisés mais toujours franchissables ?<br/>Quel est l'état de préparation Stade 1 (non amorcé) ou Stade 2 (amorcé).</p> <p>f. Quels sont les obstacles actuellement en cours d'achèvement ?</p> <p>g. Quand estimez-vous qu'ils seront achevés ?</p> <p>h. Quels sont les obstacles prévus mais dont la réalisation n'a pas commencé ?</p> <p>i. Quels sont les matériels nécessaires pour la réalisation des obstacles prévus ?</p> <p>j. Le matériel nécessaire à la mission est-il disponible ? Dans l'affirmative, où se trouve-t-il ?</p> <p>k. Quels sont les obstacles pour lesquels on a prévu une équipe pour la mise à feu ou la fermeture ?<br/>Des ordres écrits conformes au STANAG 2017 ont-ils été diffusés ?</p> <p>l. Quelle est l'unité fournissant l'équipe en question ?</p> <p>m. Quels sont les obstacles pour lesquels un détachement de protection a été prévu ? Des ordres écrits conformes au STANAG 2017 ont-ils</p> |                                |

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| ENGINEER SITUATION ORIENTED VOCABULARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | LOCUTIONS CARACTERISTIQUES<br>DU GENIE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | To be filled in by each nation |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| n. Which unit is providing the Demolition Guard?<br><br>o. Are there pre-chambered Targets in the Area not included in the Obstacle Plan?                                                                                                                                                                                                                                                                                                                                                                                                                         | été diffusés ?<br><br>n. Quelle est l'unité fournissant le détachement de protection ?<br>o. Existe-t-il dans votre secteur des barrages préparés dès le temps de paix qui ne figurent pas sur le tableau d'obstacles ?                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                |
| <b>5.- Documentation Transfer</b><br>a. If they are available, would you mind giving me copies of the following documents relating to your area?<br>(1) Minefield and Booby Trap Records (see STANAG 2036)<br>(2) Obstacle Folders<br>(3) Access Keys to Demolition Targets and Ammo stores<br>(4) Technical Engineer Documents<br>(a) Road & Bridge Maps<br>(b) Cross Country Movement Maps<br>(c) Territorial Defence Forces or Home Guard Overlays, Schedules, Files and Special Maps.<br>(5) Engineer Reconnaissance Reports.<br>(6) Any other documentation. | <b>5.- Transfert de la documentation</b><br>a. Pourriez-vous me donner des exemplaires des documents se rapportant à votre zone ?<br><br>(1) Plans de repérage des champs de mines et des pièges (cf. STANAG 2036)<br>(2) Carnets d'obstacles<br>(3) Clefs donnant accès aux dispositifs de destruction et aux dépôts de munitions<br>(4) Documents techniques du Génie:<br>(a) Cartes des routes et des ponts<br>(b) Carte de praticabilité du terrain.<br>(c) Calques, vues d'ensemble, documents de travail, fiches et cartes spéciales des forces territoriales.<br>(5) Comptes rendus de reconnaissance du Génie.<br>(6) Documents de toutes sortes. |                                |
| If you do not have these documents who has them?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Si vous n'êtes pas en possession de ces documents ou matériels, à qui faut-il m'adresser pour les avoir?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |
| <b>6.- Coordination details</b><br>a. Contact Points<br>(1) The leaders of the taking over and handing over parties should meet not later than... (date/time group) at                                                                                                                                                                                                                                                                                                                                                                                            | <b>6.- Coordination</b><br>a. Points de jonction.<br>(1) Les chefs des détachements de prise en charge et de remise devront se trouver en ... (coordonnées) au plus tard le ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                |

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| ENGINEER SITUATION ORIENTED VOCABULARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | LOCUTIONS CARACTERISTIQUES<br>DU GENIE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | To be filled in by each nation |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| <p>.....(map grid references)</p> <p>(2) They will take over/hand over the following target serials</p> <p>b. Identity checks:</p> <p>(1) Rank and name of the leader of the taking-over/handling-over party</p> <p>(2) Rank and name of his deputy</p> <p>(3) What are the Passwords?</p> <p>(4) The expected time (DTG) of arrival for the taking over/handling over Party is....</p> <p>c. Please can you carry out the following tasks before handover:</p> <p>(1) Keep the route from..... to..... open.</p> <p>(2) Ensure there is a passage open through the obstacle at .....</p> <p>(3) Move the stores at .... to .... By....</p> <p>d. Provided your own Operations Staff agree, you can abandon work on the following target serials.....</p> <p>e. We will take over the obstacles in the following sequence/order of priority.....</p> <p>f. Engineer materiel</p> <p>(1) What engineer materiel do you intend to leave behind?</p> <p>(2) What is its location?</p> <p>(3) How much is there?</p> | <p>(group date/heure)</p> <p>(2) Ils procéderont à la prise en charge/remise des obstacles No...</p> <p>b. Contrôles d'identité:</p> <p>(1) Grade et nom de l'officier chargé de la prise en charge/remise</p> <p>(2) Grade et nom de son adjoint</p> <p>(3) Quels sont les mots de passe?</p> <p>(4) Le détachement de remise/prise en charge est attendu pour .... (groupe/date/heure)</p> <p>c. Pourriez-vous veiller à ce que les mesures suivantes soient prises avant le transfert:</p> <p>(1) Laisser ouvert l'itinéraire de ... a ...</p> <p>(2) Veiller à ce que l'obstacle puisse être traversé au point.....</p> <p>(3) Transporter les matériels stockés de....à.... pour... heures au plus tard.</p> <p>d. Si votre PC/3ème Bureau est d'accord, vous pouvez arrêter les travaux sur les obstacles No ...</p> <p>e. La prise en charge des obstacles se fera dans l'ordre de priorité suivant .....</p> <p>f. matériel du génie</p> <p>(1) Quel matériel du génie laisserez-vous sur place?</p> <p>(2) Où est-il stocké?</p> <p>(3) En quelle quantité?</p> |                                |

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| ENGINEER SITUATION ORIENTED VOCABULARY                                                                                                                                                                                                                                                                                                                                                                                                                                      | LOCUTIONS CARACTERISTIQUES<br>DU GENIE                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | To be filled in by each nation |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| <p>g. Are you leaving in place any military bridging you have constructed?</p> <p>h. execution<br/>(1) I will know when transfer is complete by the following means .....<br/>(2) I will pass the order to exchange command and you can withdraw your troops when the following targets have been turned over .....<br/>(3) As far as reserved demolitions are concerned the order to exchange command etc. will be passed to you by the incoming Authorized Commander.</p> | <p>g. Laissez-vous en place des ponts militaires construits par vous?</p> <p>h. exécution<br/>(1) L'exécution du transfert me sera communiquée de la façon suivante ....<br/>(2) Je donnerai l'ordre de passation du commandement et vous pourrez retirer vos éléments, dès que les obstacles suivants auront été transférés ...<br/>(3) En ce qui concerne les ouvrages à destruction réservée, l'ordre de passation du commandement, etc. vous sera communiqué par l'autorité qualifiée vous relevant.</p> |                                |
| <p>7.- Assembly Areas and Movement</p> <p>8.- CIS Briefing</p>                                                                                                                                                                                                                                                                                                                                                                                                              | <p>7.- Zones de rassemblement et mouvements</p> <p>8.- Briefing sur les transmissions</p>                                                                                                                                                                                                                                                                                                                                                                                                                    |                                |
| <p>a. Which civil telephone numbers are you using?<br/>(1) Dialing code &amp; number?<br/>(2) Location?<br/>(3) Which unit is manning it?</p> <p>b. Which code words are you using?</p> <p>c. What is your number on the military network?</p> <p>d. How is your CIS connectivity? LAN/WAN Network?</p>                                                                                                                                                                     | <p>a. Quels numéros de téléphone du réseau public utilisez-vous?<br/>(1) Indicatif et numéro du poste?<br/>(2) Implantation du poste?<br/>(3) Unité le desservant?</p> <p>b. Quels mots codes utilisez-vous?</p> <p>c. Quel est votre numéro de téléphone militaire?</p> <p>d. Comment est votre connexion CIS ? Réseau LAN /WAN?</p>                                                                                                                                                                        |                                |
| <p>9.- Location Briefing</p> <p>a. What are the Map grids of the:<br/>(1) Battalion HQs<br/>(2) Company HQs<br/>(3) Platoon HQs<br/>(4) Engineer Task Sites<br/>(5) Engineer Munitions Dumps</p>                                                                                                                                                                                                                                                                            | <p>9.- Briefing sur les positions</p> <p>a. Quelles sont les coordonnées:<br/>(1) du PC de bataillon ?<br/>(2) du PC de compagnie ?<br/>(3) du PC de peloton/Section ?<br/>(4) des emplacements des travaux du génie ?<br/>(5) des dépôts de munitions du génie ?</p>                                                                                                                                                                                                                                        |                                |

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| ENGINEER SITUATION ORIENTED VOCABULARY                                                                                                                                                                                                                                                | LOCUTIONS CARACTERISTIQUES<br>DU GENIE                                                                                                                                                                                                                                                                                                                                                        | To be filled in by each nation |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| <p>(6) Engineer Material Dumps<br/>(7) Engineer Construction Material Sites for:</p> <p>(a) Crushed Stone<br/>(b) Timber<br/>(c) Others</p> <p>b. (1) Which Territorial Units or Home Guard Units are supporting you?<br/>(2) Where are they now?<br/>(3) How can I contact them?</p> | <p>(6) des dépôts de matériel du génie ?<br/>(7) des sites de matériaux de construction du génie:<br/>(a) matériaux de carrière ?<br/>(b) bois de construction ?<br/>(c) matériaux divers ?</p> <p>b. (1) Quelles sont les unités territoriales chargées de vous appuyer?<br/>(2) Où se trouvent-elles actuellement ?<br/>(3) Que faut-il faire pour établir le contact avec ces équipes?</p> |                                |

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ANNEX D TO  
STANAG 2989  
(Edition 2)

## OBSTACLE HAND-OVER AID HAND-OVER AID / AIDE-MEMOIRE POUR LE TRANSFERT DE BARRAGES

| HAND OVER CHECKLIST                                                                                                                                                                                                                                                                                                                                                          |  | LISTE DE VERIFICATION POUR LE TRANSFERT D'OBSTACLES                                                                                                                                                                                                                                                                                                                                                                                                                                   | (to be filled in by each nation) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| A. IDENTITY CHECK                                                                                                                                                                                                                                                                                                                                                            |  | A. CONTROLE D'IDENTITE                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                  |
| <u>I am</u><br>1. The platoon leader of ... platoon, ... company<br>2. The squad leader of ..... squad .... platoon, .... company<br>3. The Commander of the Demolition Guard<br>4. The Commander of the Demolition Firing Party<br>5. handover the obstacle<br>6. takeover the obstacle<br><u>I request</u><br>7. a mutual identity check (identity card/ demolition order) |  | <u>Je suis</u><br>1. Le chef de la ...section de la ... compagnie<br>2. Le chef du .... groupe de la ..... compagnie<br>3. Le chef du détachement de protection du dispositif de destruction,<br>4. Le chef du détachement de mise à feu du dispositif de destruction<br>Chargé:<br>5. de la remise de l'obstacle<br>6. de la reprise de l'obstacle<br><u>Je vous demande</u><br>7. de justifier votre identité et de vérifier la mienne (carte d'identité /consignes de destruction) |                                  |

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| B. BRIEFING ON THE TACTICAL SITUATION                                                                                                                                                                                                                                                                                                                                                                                                   | B. . INITIATION A LA SITUATION TACTIQUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <u>I request (by means of a map or sketch)</u><br><br>8. Briefing on the terrain<br>9. Information on the enemy<br>10. Information on our own troops / flanking units<br>11. Local security of the obstacle<br>12. Information on the last of our own forces that will pass through the obstacle<br>13. Who gives the order to close or fire the obstacle?<br>14. By which means will the order to close or fire the obstacle be given? | <u>Je vous demande ( à l'aide d'une carte ou d'un croquis):</u><br><br>8. des renseignements sur le terrain<br>9. des informations sur l'ennemi<br>10. des informations sur les éléments amis<br>11. des précisions sur les conditions dans lesquelles est assurée la sécurité de l'obstacle<br>12. des informations sur les derniers éléments amis devant passer par l'obstacle<br>13. qui est l'autorité donnant l'ordre de fermeture/mise à feu?<br>14. de quelle manière l'ordre de fermeture/mise à feu sera-t-il donné? |  |
| C. MINEFIELDS                                                                                                                                                                                                                                                                                                                                                                                                                           | C. DETAILS RELATIFS AUX CHAMPS DE MINES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| 15. Briefing on the Minefield Records in all details<br><br><u>Briefing on the Minefield Obstacle</u><br><br>16. Type of minefield<br>17. Boundaries<br>18. Number of strips/rows , IOE , etc<br>19. Landmarks/intermediate markers                                                                                                                                                                                                     | 15. Explication détaillée du repérage du champ de mines<br><br><u>Renseignements sur les obstacles à base de mines</u><br><br>16. Type d'obstacles à base de mines<br>17. Dimensions<br>18. Nombre de rangées / bandes minées, CEI, etc<br>19. Repères fixes / intermédiaires                                                                                                                                                                                                                                                 |  |

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|                                                                                         |                                                                                                       |  |
|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--|
| 20. Type and number of mines laid (See STANAG 2989 Annex E)                             | 20. Type et nombre de mines posées (Voir STANAG 2989 Annexe E)                                        |  |
| 21. The time mines are scheduled to self-destruct/neutralise/sterilise (if appropriate) | 21. Heure à laquelle les mines doivent s'autodétruire/se neutraliser / devenir inertes (selon le cas) |  |
| 22. Width and marking of the lane                                                       | 22. Largeur et balisage du passage en colonne                                                         |  |
| 23. Type of fencing (Minefield Marking System?)                                         | 23. Type de marquage                                                                                  |  |
| 24. Location of mines, fuses and other devices required to close the lane               | 24. Lieu de stockage des mines et des allumeurs nécessaires pour fermer le passage en colonne         |  |
| 25. Location of storage sites                                                           | 25. Lieu de stockage du matériel.                                                                     |  |
| 26. Procedures required to close the lane                                               | 26. Opérations nécessaires pour fermer le passage en colonne                                          |  |
| 27. Traffic control                                                                     | 27. Régulation de la circulation                                                                      |  |
| 28. Maintenance of the driving surface and markings in the safe lanes                   | 28. Entretien du chemin de roulement des passages en colonne sécurisés                                |  |
| 29. To close the lane                                                                   | 29. la fermeture du passage en colonne                                                                |  |
| 30. To remove the fences and/or the markings                                            | 30. l'enlèvement des clôtures et/ou du balisage                                                       |  |
| D. DETAILS OF A DEMOLITION OBSTACLE                                                     | D. DETAILS D'UN OBSTACLE À BASE DE DÉMOLITION                                                         |  |
| 31. Briefing on the Obstacle Folder in all details                                      | 31. Explication détaillée du carnet d'obstacle                                                        |  |

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| <u>Briefing on the Obstacle</u>                                   | <u>Présentation de l'obstacle</u>                                      |  |
|-------------------------------------------------------------------|------------------------------------------------------------------------|--|
| 32. Type of obstacle                                              | 32. Type d'obstacle                                                    |  |
| 33. Fixing of the charges                                         | 33. Mise en place des charges                                          |  |
| 34. The run of the firing circuit<br>(ring main and branch lines) | 34. Disposition des chaînes de mise à feu                              |  |
| 35. Type of main firing circuit/reserve firing circuit            | 35. Type de dispositif de mise à feu principal / de réserve            |  |
| 36. The firing point/points                                       | 36. Emplacement de la (des) position(s) de mise à feu                  |  |
| 37. Present State of Readiness                                    | 37. Etat d'amorçage actuel                                             |  |
| 38. Procedure required to change the State of Readiness           | 38. Opérations nécessaires pour changer l'état d'amorçage              |  |
| 39. Procedure required to fire the demolition                     | 39. Opérations nécessaires pour la mise à feu                          |  |
| 40. Traffic control                                               | 40. Régulation de la circulation                                       |  |
| 41. The demolition order in detail                                | 41. Détail des consignes de destruction                                |  |
| <u>Estimate of the time required</u>                              | <u>Informations concernant les délais nécessaires pour:</u>            |  |
| 42. To change the State of Readiness 1 (safe) to 2 (armed)        | 42. le changement de l'état de préparation 1 (non amorcé) à 2 (amorcé) |  |
| 43. To fire the demolition                                        | 43. la mise à feu                                                      |  |

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| E.- WRITTEN HANDOVER / TAKEOVER                                                                                                                                                                                                                                                                                                                                                          | E.- PROCÈS-VERBAL DE TRANSFERT                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <u>Signatures of "Handing over/Taking over" (Names, Rank, Unit, Date-Time- Group) on :</u><br><br>44. Demolition order<br>45. Obstacle folder (if appropriate)<br>46. The minefield record<br>47. In case it is required by the Authority Handing over an additional hand written certificate may be produced. (See Demolition Order)<br>48. Handover/Takeover of obstacle documentation | <u>Signature des responsables de la remise/reprise (noms, grades, unité, date/heure)</u><br><br>44. Consignes de destruction<br>45. Carnet d'obstacle (selon le cas)<br>46. Plan de repérage du champ de mines<br>47. Au cas où le responsable de la remise le jugerait nécessaire, établir un certificat supplémentaire sur papier ordinaire (Voir consignes de destruction)<br>48. Remise / prise en charge des documents relatifs à l'obstacle |  |
| F.- REPORTS                                                                                                                                                                                                                                                                                                                                                                              | F.- COMPTES RENDUS                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| <u>Report of the completion of obstacle Handover / Takeover</u><br><br>49. To the Commander of the, Demolition Guard<br>50. To your own unit<br><u>Report on the firing / closing</u><br>51. To the Commander of the Demolition Guard<br>52. To your own unit                                                                                                                            | <u>Rendre compte de la remise / prise en charge de l'obstacle</u><br><br>49. au chef du détachement de protection<br>50. à son commandant d'unité<br><u>Rendre compte de la mise à feu / de la fermeture</u><br>51. au chef du détachement de protection<br>52. à son commandant d'unité                                                                                                                                                          |  |

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ANNEX E TO  
STANAG 2989  
(Edition 2)

NATIONAL RESTRICTIONS TO ACCEPT OBSTACLES THAT CONTAIN APM's  
AND/OR OTHER EXPLOSIVE DEVICES

| NATION         | APM,s<br>Anti-Personal<br>Mines | ATM With<br>Anti-lift Device<br>Anti-handling<br>Device | Booby-traps | Other Devices |
|----------------|---------------------------------|---------------------------------------------------------|-------------|---------------|
| BELGIUM        | N(1)                            | Y (3)                                                   | N           | Y(3)          |
| BULGARIA       |                                 |                                                         |             |               |
| CANADA         | Y(4)                            | Y(5)                                                    | Y           | N             |
| CZECH REP      | N                               | Y(3)                                                    | Y(2)        | Y(2)          |
| DENMARK        | Y                               | Y                                                       | Y           | Y             |
| ESTONIA        |                                 |                                                         |             |               |
| FRANCE         | N (1)                           | Y(3)                                                    | N           | Y(3) (6)      |
| GERMANY        | N                               | Y(3) (7)                                                | N           | Y(3) (12)     |
| GREECE         | N                               | N                                                       | N           | N             |
| HUNGARY        | N                               | Y(13)                                                   | Y(13)       | Y(13) (14)    |
| ITALY          | N                               | N                                                       | N           | Y (3) (6)(12) |
| LATVIA         |                                 |                                                         |             |               |
| LITHUANIA      |                                 |                                                         |             |               |
| LUXEMBOUGH     |                                 |                                                         |             |               |
| NETHERLANDS    | N(2)                            | Y(3) (6) (7)                                            | N           | Y(3) (6)      |
| NORWAY         | Y(9)(10)                        | Y(11)                                                   | Y           | Y(12)         |
| PORTUGAL       |                                 |                                                         |             |               |
| POLAND         | Y(8)                            | Y                                                       | N           | Y             |
| ROMANIA        | N (1)                           | N                                                       | N           | Y (12)        |
| SLOVAKIA       |                                 |                                                         |             |               |
| SLOVENIA       |                                 |                                                         |             |               |
| SPAIN          | N(1) (2)                        | Y (3)                                                   | N           | Y(3)          |
| TURKEY         | N                               | Y                                                       | Y           | Y             |
| UNITED KINGDOM | N                               | Y                                                       | Y           | Y             |
| UNITED STATES  | Y                               | Y                                                       | Y           | Y             |

Y     TRANSFER IS POSSIBLE  
N     TRANSFER IS NOT POSSIBLE  
( )   NATIONAL RESTRICTIONS

- (1)     Use of APM is banned by National Laws and Regulations.
- (2)     Transfer of obstacles containing AP mines as defined by OTTAWA Treaty may be accepted only if the aim of the transfer is to destroy or neutralize this type of mines.

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- (3) Transfer of explosive devices is possible only if they are not included in the definition of AP mine (OTTAWA Treaty) or in the prohibitions imposed by national laws.
- (4) Canada may take over responsibility for an area in which APM have been deployed. If self-neutralizing/ self-destructing APM have been used, Canada will not seek their replacement once they expire. If the APM are not self-neutralizing/ self-destructing, Canada will only monitor the minefield but will not conduct maintenance thereof. Eventual clearance of the APM minefield will not be a Canadian responsibility.
- (5) Canada considers AT mines employed with a tilt-rod activated fuse to fall within the definition of APM. See restriction (4).
- (6) Transfer is possible only if they are not prohibited by the protocol on Prohibitions or Restrictions in the use of Mines, Booby Traps and Other Devices as amended on 3 May 1996 annexed to the Convention on prohibitions or restrictions on the use of certain conventional weapons which may be deemed to be excessively injurious or to have indiscriminate effect (Protocol II as amended on 3 May 1996).
- (7) Transfer is possible only if the ATM meet the restriction mentioned in Article 4 of Protocol II as amended on 3 May 1996, and the ATM is in compliance with the provisions on self-destruction and self-deactivation mentioned in the Technical Annex of the Protocol II as amended on 3 May 1996.
- (8) Transfer of obstacles containing mines and explosives devices is limited only to the Polish territory.
- (9) Norway will not maintain any APM or booby trap when minefields or objects not in compliance with the Ottawa Convention have reached their expiry time.
- (10) The term "transfer" must be interpreted cumulatively, so that both physical transport and the transfer of ownership must take place before transfer has occurred within the meaning of the Ottawa Convention.
- (11) Anti-Tank mines are considered neither a part of the Ottawa Convention nor restricted in the CCW, Protocol II.
- (12) The term "Other Devices" is too imprecise, and so it has to be considered, for each particular case, and in accordance with international and national laws.
- (13) Transfer is possible if Hungary will only monitor the minefield, or take over the control of an area; Hungary will not conduct maintenance and will not seek the mines replacement once they are expired, destructed or neutralized. Hungary will not take over responsibility for demining the area.
- (14) The term "Other Devices" is too general. When the definition includes the "Guided Mines", the activation will be implemented if the nation handing over trains the nation taking over in order to permit a safe activation of those devices.

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ANNEX F TO  
STANAG 2989  
(Edition 2)

OBSTACLE FOLDER

Obstacle Folders should be completed by engineer staff at each level and they should be shared with both superior and subordinate units when necessary. The Obstacle Folder is essential for coordination between planning and executing units and for the handover/takeover. They include registers for each obstacle organised as follows:

| PART A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | PART B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | PART C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Essential Information                             <ul style="list-style-type: none"> <li><input type="checkbox"/> a. Obstacle Serial Number (1) (M)</li> <li><input type="checkbox"/> b. Unit (Planning) (M)</li> <li><input type="checkbox"/> c. Unit (Installing/Activating/Date)</li> <li><input type="checkbox"/> d. Date Time Group -Unit Controlling/Monitoring (*)</li> <li><input type="checkbox"/> e. Obstacle Number (2)</li> <li><input type="checkbox"/> f. Type of Obstacle (M)</li> <li><input type="checkbox"/> g. Obstacle description (M)</li> <li><input type="checkbox"/> h. Location (M)</li> <li><input type="checkbox"/> i. Date Time Group /Status (M) (*)</li> <li><input type="checkbox"/> j. Activation- Deactivation Protocol. (Safety, Control- Monitoring....)</li> <li><input type="checkbox"/> k. Part B (3)</li> <li><input type="checkbox"/> l. Part C (3)</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>Additional Information (4) for Obstacle Serial number (line a.)                             <ul style="list-style-type: none"> <li><input type="checkbox"/> Minefield Record</li> <li><input type="checkbox"/> Demolition Order</li> <li><input type="checkbox"/> Reports &amp;Returns</li> <li><input type="checkbox"/> Bill of Materiel/ Bill of Barrier Munitions</li> <li><input type="checkbox"/> Other Information</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>Graphic Information for Obstacle Serial number (line a.)                             <ul style="list-style-type: none"> <li><input type="checkbox"/> Location Map (1:50000)</li> <li><input type="checkbox"/> Detailed Map (1:2000 or smaller)</li> <li><input type="checkbox"/> Sketch (firing circuits and other details)</li> <li><input type="checkbox"/> Pictures (When possible as seen from enemy side and as seen from own side and showing obstacle details)</li> </ul> </li> </ul> |
| <ul style="list-style-type: none"> <li>(1) Assigned by planning unit (national), if not the same as line e.</li> <li>(2) Assigned by multinational formations</li> <li>(3) Y (yes) N (no)</li> <li>(M) Mandatory</li> <li>(*) May include more than one register</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <ul style="list-style-type: none"> <li>(4) In accordance with STANAG's 2430 / 2036 / 2017.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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