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Post-clearance documentation

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Foreword

International standards for humanitarian mine clearance programmes were first proposed by working groups at an international technical conference in Denmark, in July 1996. Criteria were prescribed for all aspects of mine clearance, standards were recommended and a new universal definition of 'clearance' was agreed. In late 1996, the principles proposed in Denmark were developed by a UN-led working group and the International Standards for Humanitarian Mine Clearance Operations were developed. A first edition was issued by the UN Mine Action Service (UNMAS) in March 1997.

The scope of these original standards has since been expanded to include the other components of mine action and to reflect changes to operational procedures, practices and norms. The standards were re-developed and renamed as International Mine Action Standards (IMAS).

The United Nations has a general responsibility for enabling and encouraging the effective management of mine action programmes, including the development and maintenance of standards. UNMAS, therefore, is the office within the United Nations responsible for the development and maintenance of IMAS. IMAS are produced with the assistance of the Geneva International Centre for Humanitarian Demining.

The work of preparing, reviewing and revising IMAS is conducted by technical committees, with the support of international, governmental and non-governmental organisations. The latest version of each standard, together with information on the work of the technical committees, can be found at <http://www.mineactionstandards.org/>. Individual IMAS are reviewed at least every three years to reflect developing mine action norms and practices and to incorporate changes to international regulations and requirements.

Introduction

Once land has been cleared of mines and Unexploded Ordnance (UXO) there is usually an urgent need to make it available for productive use without delay. In some cases the local population will follow-up and occupy land immediately following clearance in order to confirm ownership by re-establishing historic land rights. And at the end of a project, the demining organisation will be keen to re-deploy its demining teams to new sites requiring urgent clearance.

Despite the pressure to move on, there are some important issues which must be addressed and tasks which must be completed before the land can be considered formally 'cleared' and available for use. In particular, all post-clearance inspections should be completed and any corrective action carried out; permanent survey markers including turning points and intermediate points should be emplaced and accurately recorded for future reference; and all necessary information such as monitoring and inspection reports should be collated and made available for the formal handover. The demining organisation, or its nominated community liaison representative shall ensure that the mine affected community is fully cognisant of all demining activities in the area and the implications for the community.

The formal handover of cleared land is most important. The procedure and documentation required for the handover aim to clarify the ownership of any residual risk, and to determine the legal responsibilities and accountability of the donor, the National Mine Action Authority (NMAA) and demining organisation(s) following handover.

This standard provides guidance on the procedural requirements for the handover of cleared land.

Post-clearance documentation

1. Scope

This standard provides guidance on the procedural requirements for the handover of cleared land, and details responsibilities and obligations.

2. References

A list of normative references is given in Annex A. Normative references are important documents to which reference is made in this standard and which form part of the provisions of this standard.

3. Terms, definitions and abbreviations

A list of terms, definitions and abbreviations used in this standard is given in Annex B. A complete glossary of all the terms, definitions and abbreviations used in the IMAS series of standards is given in IMAS 04.10.

In the IMAS series of standards, the words 'shall', 'should' and 'may' are used to indicate the intended degree of compliance. This use is consistent with the language used in ISO standards and guidelines:

- a) 'shall' is used to indicate requirements, methods or specifications that are to be applied in order to conform to the standard.
- b) 'should' is used to indicate the preferred requirements, methods or specifications.
- c) 'may' is used to indicate a possible method or course of action.

The term 'National Mine Action Authority (NMAA)' refers to the government department(s), organisation(s) or institution(s) in each mine-affected country charged with the regulation, management and co-ordination of mine action. In most cases the national Mine Action Centre (MAC) or its equivalent will act as, or on behalf of, the 'NMAA'.

4. Requirements

4.1. Clearance confirmation

The documentation which is made available for handover shall provide sufficient evidence that the clearance requirement has been met. Clearance is achieved and demonstrated in two stages. Stage 1 involves the monitoring of the demining organisation's management systems and operational procedures before and during the clearance process. Stage 2 involves the inspection of cleared land by sampling. IMAS 07.40 provides guidance on the monitoring requirements and IMAS 09.20 provides guidance on the procedures to be adopted for post-clearance inspections.

Reports produced during the monitoring and post-clearance inspections, together with follow-up inspections to confirm that any corrective action has been successfully completed, should be included in the handover documentation.

4.2. Survey marking

During a technical survey, the perimeter of the hazardous area(s) should be indicated with survey markers, as defined in IMAS 08.20.

Further information obtained during clearance should indicate the actual location of each mine and UXO. It may then be necessary to re-define the perimeter of the area, and to re-position the permanent survey markers to show the actual area cleared. Buried metal objects should be used as permanent markers.

The new positions should be accurately surveyed, and the coordinates of the turning points and intermediate points should be recorded for future reference.

4.3. Hazard marking

Land which has not been cleared prior to handover for whatever reason, or cannot be confirmed as cleared, should be clearly marked with permanent hazard marking systems. Ideally, such areas should use physical barriers such as robust fencing to reduce the risk of unintentional entry into the remaining hazardous area(s).

IMAS 08.40 provides guidance on hazard marking.

4.4. Residual risk and liability

This is a complex legal issue that should be explored with the NMAA during the contract negotiation stage. In general, for humanitarian operations no residual risk should lay with the demining organisation after the NMAA has formally accepted the cleared land. The handover of the cleared land shall be the mitigation of liability point for the demining organisation.

For contract work in support of privately financed commercial development the contract may insist that some degree of residual risk lies with the demining organisation; it is then up to the demining organisation as to whether they wish to accept such a contract.

4.5. Documentation

4.5.1. Completion report and handover certificate

Information should be collected and recorded in a systematic manner during the clearance operation. Whenever possible use should be made of standard and proven information management systems and GIS, such as IMSMA. Guidance on the use of IMSMA for compiling a completion report and handover certificate is given in Annex C.

The completion report should include at least the following information:

- a) hazard area and task identification numbers;
- b) clearance requirements – specified area and specified depth;
- c) a copy of the technical survey report (if available);
- d) details of the clearance organisation, including references to its accreditation;
- e) a summary of the procedures and equipment used to clear the area;
- f) Quality Assurance (QA), with details on the body which conducted the monitoring, the methods used and reports provided;
- g) post-clearance inspection reports, with details on the body which conducted the inspections, the methods used and reports provided;
- h) details of the cleared area(s): coordinates of the turning points and intermediate points, and a list of the mines and UXO located and destroyed during clearance;
- i) details of reduced and cancelled area(s);

- j) details of any incidents and accidents which occurred during clearance;
- k) a formal recognition from the mine affected community of community involvement and acknowledgement of the final status of the land. (See IMAS 07.41 Monitoring of mine risk education programmes and projects);

Note: The demining organisation should brief the local community and the proposed beneficiary of the cleared land on the task when it is complete and has been formally handed over to the NMAA. Such a briefing should include a subjective confidence demonstration and an explanation of the residual risk.

- l) a comparison with known minefield records; and
- m) a formal declaration that indicates that the land has been cleared over the specified area to the specified depth. (Legal advice should be sought as to the detailed wording of this declaration in each mine-affected country, however an example that is currently used is at Annex D).

The NMAA should be custodian of all completion reports, handover certificates and supporting information.

4.5.2. Post Project Review (PPR)

Wherever possible, demining organisations should conduct a formal PPR, (on the contract, not individual tasks), to identify lessons-learned during the planning, preparation and clearance phases of the operation. The PPR should include a report on the suitability of the equipment, procedures, training and support. Issues of concern should be identified and prioritised, and solutions proposed. The requirement for PPRs should be included in clearance contracts by donors and national authorities. PPRs should be distributed to NMAA, to the United Nations (UNMAS, UNDP and UNOPS), and to donors or sponsors. Where PPRs highlight shortcomings in established equipment or procedures, particularly issues involving safety, they should be more widely distributed.

5. Responsibilities and obligations

5.1. National Mine Action Authority (NMAA)

The NMAA shall:

- a) prepare and publish standards and provide guidance for the documentation required for handover;
- b) following handover, maintain documentation and act as custodian of all completion reports, handover certificates and supporting information; and
- c) make available documentation to authorities, organisations and the local population as required. Post-clearance documentation should be held in perpetuity in a national records archive.

5.2. Demining organisation

The demining organisation shall apply the national standards for the handover of cleared land, including the collection and collation of the information detailed in clause 4.5 above.

In the absence of a NMAA, the demining organisations should assist the host nation, during the establishment of a NMAA, in framing national standards for the handover of cleared land.

Annex A (Normative) References

The following normative documents contain provisions, which, through reference in this text, constitute provisions of this part of the standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of the standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid ISO or EN:

- a) IMAS 07.40 Monitoring of demining organisations;
- b) IMAS 07.41 Monitoring of mine risk education programmes and projects;
- c) IMAS 09.10 Clearance requirements; and
- d) IMAS 09.20 The inspection of cleared land: guidelines to the use of sampling procedures.

The latest version/edition of these references should be used. GICHD hold copies of all references used in this standard. A register of the latest version/edition of the IMAS standards, guides and references is maintained by GICHD, and can be read on the IMAS website (<http://www.mineactionstandards.org/>). NMAA, employers and other interested bodies and organisations should obtain copies before commencing mine action programmes.

Annex B (Informative) Terms, definitions and abbreviations

B.1.

area reduction

the process through which an area indicated as contaminated (during any information gathering activities or surveys which form part of the GMAA process) is reduced to a smaller area.

Note: Area reduction may involve some limited clearance, such as the opening of access routes and the destruction of mines and UXO which represent an immediate and unacceptable risk, but it will mainly be as a consequence of collecting more reliable information on the extent of the hazardous area. Usually it will be appropriate to mark the remaining hazardous area(s) with permanent or temporary marking systems.

Note: Likewise, area reduction is sometimes done as part of the clearance operation.

B.2.

boundary lane

a cleared lane around the perimeter of a hazardous area.

B.3.

cancelled area

an area previously recorded as a hazardous area which subsequently is considered, as a result of actions other than clearance, not to represent a risk from mines and UXO.

Note: This change in status will be the result of more accurate and reliable information, for example from technical survey, and will normally only be authorised by the NMAA, in accordance with national policy. The documentation of all cancelled areas shall be retained together with a detailed explanation of the reasons for the change in status.

B.4.

cleared area

cleared land

an area that has been physically and systematically processed by a demining organisation to ensure the removal and/or destruction of all mine and UXO hazards to a specified depth.

Note: IMAS 09.10 specifies the quality system (i.e. the organisation, procedures and responsibilities) necessary to determine that land has been cleared by the demining organisation in accordance with its contractual obligations.

Note: Cleared areas may include land cleared during the technical survey process, including boundary lanes and cleared lanes.

B.5.

cleared lane

safety lane

the generic term for any lane, other than a boundary lane, cleared by a survey or clearance team to the international standard for cleared land. This may include access lanes outside the hazardous area or cross/verification lanes inside a hazardous area.

B.6.

handover

the process by which the beneficiary (for example, the NMAA on behalf of the local community or land user) accepts responsibility for the cleared area. The term 'alienation' is sometimes used to describe a change of ownership of the land which accompanies the handover of a cleared area.

B.7.

handover certificate

documentation used to record the handover of cleared land.

B.8.

hazard (ous) area

contaminated area

a generic term given to an area not in productive use due to the actual or perceived presence of mines, UXO or other explosive devices.

B.9.

intermediate point

survey markers used between turning points that are more than 50m apart.

B.10.

monitoring

in the context of mine action, the term refers to the authorised observation, inspection or assessment by qualified personnel of worksites, facilities, equipment, activities, processes, procedures and documentation without taking responsibility for what is being monitored. Monitoring is usually carried out to check conformity with undertakings, procedures or standard practice and often includes recording and reporting elements.

*in the context of MRE, the term refers to ...*the process of measuring or tracking what is happening. This includes:

- a) measuring progress in relation to an implementation plan for an intervention – programmes/projects/activities, strategies, policies and specific objectives.
- b) measuring change in a condition or set of conditions or lack thereof (e.g., changes in the situation of children and women or changes in the broader country context).
- c) definition from UNICEF Policy and Programming Manual.

B.11.

Quality Assurance (QA)

part of QM focused on providing confidence that quality requirements will be fulfilled. [ISO 9000:2000]

Note: The purpose of QA in humanitarian demining is to confirm that management practices and operational procedures for demining are appropriate, are being applied, and will achieve the stated requirement in a safe, effective and efficient manner. Internal QA will be conducted by demining organisations themselves, but external inspections by an external monitoring body should also be conducted.

B.12.

reduced area

see area reduction.

the area of hazardous land remaining after the process of area reduction. It is still referred to as a hazardous area.

B.13.

residual risk

in the context of humanitarian demining, the term refers to the risk remaining following the application of all reasonable efforts to remove and/or destroy all mine or UXO hazards from a specified area to a specified depth. [modified from ISO Guide 51:1999]

B.14.

task identification number (ID)

a unique number used to designate a hazardous area. Task identification numbers shall be allocated by the NMAA.

B.15.

tolerable risk

risk which is accepted in a given context based on current values of society. [ISO Guide 51:1999(E)]

B.16.

turning point

a fixed point on the ground which indicates a change in direction of the perimeter of the hazardous area. It shall be clearly marked and recorded. Buried metal objects should be used to mark all turning points for permanent future reference.

Annex C (Informative) Guidance on the use of IMSMA for post-clearance documentation

IMSMA. The Information Management System for Mine Action (IMSMA) is the United Nation's preferred information system for the management of critical data in UN-supported field programmes. IMSMA provides for data collection, information analysis and project management. It is used by the staffs of mine action centres at national and regional level, and by the implementers of mine action projects - such as demining organisations.

Clearance activities. Clearance activities can be documented in IMSMA in a variety of ways. Progress reports referenced to minefields can be used to record areas cleared or devices removed that are not part of a formal clearance task. Clearance reports can be entered, again referenced to minefields. These would typically be used to record a formal clearance task. Progress reports referenced to the clearance task can be entered on a periodic basis. Post Clearance Documentation Reports are provided to meet the requirement to document the completion of a clearance activity – these reports may be referenced to a Dangerous Area, Clearance, Impact Assessment, or Minefield record. The Task tool can be used to assist the task manager in organizing the various reports that are applicable to a clearance task.

Clearance confirmation. Progress reports associated to clearance are an important element of the documentation process, which help to establish that effective procedures were in place during Stage 1 of the clearance confirmation.

Survey marking. The final perimeter of the cleared area is stored in the Post Clearance Documentation Report.

Hazard marking. Uncleared areas can be documented in Progress reports and/or in Completion reports.

Documentation. All reports entered into the IMSMA database that relate to a given task should be included in the final clearance documentation. The IMSMA task tool is a convenient means to select the various reports that are relevant to a clearance task. The task tool allows the manager to store information regarding a task that has been assigned to an implementing agency, and organize all of the relevant IMSMA reports.

Annex D (Informative) Example handover certificate and formal declaration

LOCATION	
1. Map name:	8. Location of Cleared Area. (Description and GRID / UTM). <i>(Include map and diagram of cleared area)</i>
2. Edition:	
3. Sheet Number:	
4. Scale:	
5. Series:	
6. Local name:	
7. Clearance depth:	
DETAILS OF CLEARANCE OPERATIONS	
9. Number and Type of Mine / UXO Cleared:	10. Final Disposal Method of Recovered Mines / UXO:
11. Methods and Technology Used:	12. Is Area Metal Free?
12. Quality Assurance Methodology:	
13. Minefield Serial Number:	14. Date of completion and hand over.
HANDED OVER ON BEHALF OF DEMINING ORGANISATION	ACCEPTANCE BY NATIONAL MINE ACTION AUTHORITY
15. Representative name and position.	16. National Mine Action Authority Representative name and position.
DECLARATION BY SENIOR REPRESENTATIVE OF THE DEMINING ORGANISATION	
I certify that to the best of my knowledge and belief the area specified in this Completion Certificate has been cleared of all mine and UXO hazards to the depth specified in this Completion Certificate.	I certify that the area specified in this Completion Certificate has been independently assessed to be clear, to a confidence level of ___% ¹ , of all mine and UXO hazards to the depth specified in this Completion Certificate.
17. Signature of Demining Organisation Representative.	18. National Mine Action Authority Stamp.
ACCEPTANCE BY NATIONAL MINE ACTION AUTHORITY	
I accept responsibility for this area on behalf of the people of I understand that the specified area has been cleared of mines and UXO hazards to the depth specified in this Completion Certificate. I have also been briefed as to any potential residual risk.	19. Signature of the National Mine Action Authority Representative.

1. This Confidence Level should be determined from IMAS 09.20.

Amendment record

Management of IMAS amendments

The IMAS series of standards are subject to formal review on a three-yearly basis, however this does not preclude amendments being made within these three-year periods for reasons of operational safety and efficiency or for editorial purposes.

As amendments are made to this IMAS they will be given a number, and the date and general details of the amendment shown in the table below. The amendment will also be shown on the cover page of the IMAS by the inclusion under the edition date of the phrase '*incorporating amendment number(s) 1 etc.*'

As the formal reviews of each IMAS are completed new editions may be issued. Amendments up to the date of the new edition will be incorporated into the new edition and the amendment record table cleared. Recording of amendments will then start again until a further review is carried out.

The most recently amended IMAS will be the versions that are posted on the IMAS website at www.mineactionstandards.org.

Number	Date	Amendment Details
1	1 Dec 2004	1. Formatting changes. 2. Minor text editing changes. 3. Changes to terms, definitions and abbreviations where necessary to ensure that this IMAS is consistent with IMAS 04.10.
2	23 Jul 2005	1. Annex B, changes to the definitions of 'handover' and 'Quality Assurance (QA)' and removal of the definition 'usable area', to be consistent with IMAS 04.10.