

MIL-A-48078 (FA)
1 NOVEMBER 1973

MILITARY SPECIFICATION
AMMUNITION, STANDARD QUALITY ASSURANCE PROVISIONS,
GENERAL SPECIFICATION FOR

1. SCOPE

1.1 This specification covers general Quality Assurance provisions for all types of nuclear and non-nuclear ammunition, including all components, propellants, explosives, pyrotechnics and other supplies used.

1.2 This general specification is to be used in conjunction with an item detail specification. In the event of conflict, the item detail specification shall take precedence.

2. APPLICABLE DOCUMENTS

2.1 The following documents of the issue in effect on date of invitation for bids or request for proposals, form a part of this specification to the extent specified herein.

SPECIFICATIONS

MILITARY

MIL-A-2550 - Ammunition, General Specification
for
MIL-D-1000 - Drawings, Engineering & Associated
Lists

STANDARDS

MILITARY

MIL-STD-100 - Engineering Drawing Practices
MIL-STD-105 - Sampling Procedures and Tables for
Inspection by Attributes
MIL-STD-109 - Quality Assurance Terms and Defini-
tions
MIL-STD-414 - Sampling Procedures and Tables for
Inspection by Variables for Percent
Defective

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- MIL-STD-1168 - Lot Numbering of Ammunition
- MIL-STD-1171 - Acceptance and Description Sheets
(Propellants and Explosives)
- MIL-STD-1235 - Single and Multilevel Continuous
Sampling Procedures and Tables for
Inspection by Attributes

HANDBOOKS

MIL-HDBK-204 - Inspection Equipment Design

(Copies of specifications, standards, drawings and publications listed above or in the item detail specification required by suppliers in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

2.2 Other publications - Other documents applicable to a specific munitions item are listed in the item detail specification.

3. REQUIREMENTS

3.1 Item Requirements - All item requirements are stated directly or by reference in the item detail specification.

4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for Inspection - Unless otherwise specified in the contract or purchase order, the supplier is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or order, the supplier may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. In addition, the Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements. Reference shall be made to MIL-STD-109 to define terms used herein. The provisions of MIL-A-2550 shall apply.

4.2 Classification of Inspections - Unless otherwise specified in the item detail specification, or contract, the following types of inspection shall be conducted on the unit of product:

- a. First Article Inspection
- b. Quality Conformance Inspection

4.3 First Article Inspection

4.3.1 Submission - See appropriate contract clause.

4.3.2 Inspections to be Performed - First article assemblies, components and test specimens may be subjected by the Government to any or all of the examinations and tests specified in the item detail specification and to any or all requirements of the applicable drawings.

4.3.3 Rejection - If any assembly, component or test specimen fails to comply with any of the applicable requirements, the first article sample shall be rejected. The Government reserves the right to terminate its inspection upon any failure of an assembly, component, or test specimen in the sample to comply with any of the stated requirements.

4.4 Quality Conformance Inspection

4.4.1 Inspection Lot Formation - The term "inspection lot" is defined as a homogeneous collection of units of product from which a representative sample is drawn or which is inspected 100 percent to determine conformance with applicable requirements. Units of product selected for inspection shall represent only the inspection lot from which drawn and shall not be construed to represent any prior or subsequent quantities presented for inspection. Homogeneity shall be considered to exist provided the inspection lot has been produced by one manufacturer, in one unchanged process, using the same materials and methods, in accordance with the same drawings, same drawing revisions, same specifications and same specification revisions, and complies with the provisions for submission of product as specified in MIL-STD-105. All material submitted for inspection in accordance with this specification

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shall comply with the homogeneity criteria specified herein, regardless of the type of inspection procedure which is being applied to determine conformance with requirements. Lot numbering, as required, shall be in accordance with MIL-STD-1168. Further restrictions on inspection lot formation such as interfix numbers, batches of explosives, or explosive train elements shall be as provided in the item detail specification when required.

4.4.2 Examination - The examinations listed in the item detail specification for Classification of Defects shall be performed on inspection lots as defined in 4.4.1 of this specification.

a. Critical Defects - Unless otherwise specified, inspection for critical defects shall be 100 percent.

b. Sampling Plans - Sampling may consist of static lot sampling and employ MIL-STD-105 attributes inspection, MIL-STD-414 variables inspection, or employ a unique sampling plan. The item detail specification shall state which of these alternatives will apply. For product moving down a production line, continuous sampling in accordance with MIL-STD-1235 will be used if specified in the item detail specification. NOTE: If MIL-STD-1235 is not specified in the item detail specification, application for its use may be made by the contractor in lieu of sampling in accordance with MIL-STD-105, MIL-STD-414, or a unique sampling plan. Government procuring agency approval of this substitution is required prior to implementation.

c. Major and Minor Defects - Major and minor defects shall be inspected by sampling to the AQL indicated in the Classification of Defects and Test paragraphs provided in the item detail specification, unless 100% is indicated.

4.4.2.1 Classification of Defects - See item detail specification.

4.4.3 Testing - The tests (First Article and Quality Conformance) listed in the item detail specification shall be performed on inspection lots as defined in 4.4.1 of this specification.

4.4.4 Inspection Equipment - Requirements for inspection equipment to perform examinations and tests are specified in the item detail specification and in specific contract clauses as applicable. See Section 6 of this specification for general provisions applicable to inspection equipment designs.

4.5 Test Methods and Procedures - All test methods and procedures are specified directly or by reference in the item detail specification.

5. PREPARATION FOR DELIVERY - See item detail specification.

6. NOTES

6.1 Ordering Data - Procurement documents shall specify the following:

6.1.1 Procurement Requirements

- a. Title, number and date of this and the item detail specifications.
- b. Quantity required and delivery schedules.
- c. Serialization requirements, if applicable.
- d. Quality Conformance Inspection, if other than specified in Section 4 of item detail specification.
- e. First Article Sample requirements, if other than specified in Section 4 of item detail specification.
- f. Packaging requirements, if other than specified in Section 5 of item detail specification.
- g. Certificates of conformance for each lot or shipment of product.

6.1.2 Contract Data Requirements

- a. Contract data requirements for inspection equipment designs (conforming to Data Item Description DI-E-1118 or DI-R-1714 with appropriate addendum to each). See 6.2.

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b. Data Cards - When required by incorporation of DD Form 1423 into the contract, data cards shall be prepared for each lot in accordance with Data Item Description DI-L-1410, except that for propellant or explosive lots, Acceptance and Description Sheets will be prepared in accordance with MIL-STD-1171.

6.2 Inspection Equipment Designs - Inspection equipment designs are of two types - Government Special Inspection Equipment (SIE) designs and contractor designs. SIE designs are designated by drawing numbers under the "Method of Inspection" heading in Section 4, or on the Equipment Lists referenced on the Equipment Tabulation, whichever is specified in the item detail specification. Design responsibility for all other inspection equipment is assigned to the contractor. The contractor need not furnish any design when a complete Government SIE design is provided. Unless otherwise specified, however, the contractor may submit alternate or modified contractor designs of SIE in accordance with 6.2.2 and 6.2.3 should he elect to do so.

6.2.1 SIE Designs - SIE designs may consist of any of the following:

a. Detailed drawings which completely depict all information necessary for the fabrication and use of the item of inspection equipment.

b. A source control drawing or a specification control drawing as defined in MIL-STD-100.

c. An envelope drawing, as defined in MIL-STD-100, which establishes the criteria which a detailed design shall meet. When envelope drawings are specified, the contractor shall prepare designs which comply with the criteria therein.

6.2.2 Contractor Designs - Contractor designs are required for all inspection equipment for which SIE designs are not specified and may include commercial equipment which the contractor proposes to use. (Commercial equipment is defined as unmodified equipment which is cataloged and available for purchase by the general public). Contractor designs shall include appropriate operating instructions, calibration procedures and maintenance procedures. Commercial equipment shall be fully described by catalog listings or other means which provide sufficient information to permit identification and evaluation by the Government and may include illustrations

and engineering data. Designs shall be prepared for any special fixture(s) required to be used with commercial equipment, or with SIE designs if not otherwise covered thereby (see 6.2.1c). Designs shall be of the category and form (per MIL-D-1000) specified in the Contract Data Requirements Lists (DD Form 1423). The contractor is referred to MIL-HDBK-204 "Inspection Equipment Design" for guidance. The item detail specification number, paragraph number, and defect number from Section 4 shall be referenced on each contractor design together with the component or assembly drawing number, revision letter and date to which the specific design applies.

6.2.3 Submission of Designs for Approval - Contractor designs shall be approved by the Government prior to fabricating or procuring the equipment. Designs shall be submitted for approval in accordance with the stipulations, time frame and distribution specified in the Contract Data Requirements Lists (DD Form 1423). Partial submission of inspection equipment designs is permissible and encouraged. However, the completion date for design review will be based on the date of the final submission of designs and the required delivery schedule as stipulated in the contract. The specific segment of Picatinny Arsenal to which the Contractor designs shall be sent will be specified in the item detail specification.

6.3 Definitions

6.3.1 Contractor - Unless otherwise specified, the word Contractor used throughout this or the item detail specification shall mean any supplier or producer of items or material to the Government. This shall include commercial contractors, sub-contractors, Government Owned, Contractor Operated (GOCO) and Government Owned, Government Operated (GOGO) plants.

6.3.2 Technical Data Package (TDP) - A technical description of an item adequate for use in procurement. The description defines the required design configuration and assures adequacy of item performance. It consists of all applicable technical data such as plans, drawings, and associated lists specifications, standards, models, performance requirements, quality assurance provisions, and packaging data.

CUSTODIAN:
ARMY-PA

PREPARING ACTIVITY:
ARMY-PA

PROJECT NUMBER 1395-A-G41

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

(See Instructions - Reverse Side)

1. DOCUMENT NUMBER	2. DOCUMENT TITLE
3. NAME OF SUBMITTING ORGANIZATION	4. TYPE OF ORGANIZATION (Mark one)
5. ADDRESS (Street, City, State, ZIP Code)	<input type="checkbox"/> VENDOR <input type="checkbox"/> USER <input type="checkbox"/> MANUFACTURER <input type="checkbox"/> OTHER (Specify): _____
5. PROBLEM AREAS	
a. Paragraph Number and Wording: b. Recommended Wording: c. Reason/Rationale for Recommendation: 	
6. REMARKS	
7. NAME OF SUBMITTER (Last, First, MI) - Optional	8. WORK TELEPHONE NUMBER (Include Area Code) - Optional
9. MAILING ADDRESS (Street, City, State, ZIP Code) - Optional	10. DATE OF SUBMISSION (YYMMDD)

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NOTE: This form may not be used to request copies of documents, nor to request waivers, deviations, or clarification of specification requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

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