

CONTRACT CONDITIONS, TECHNICAL, STANDARD FOR

SUBTITLE : PART 4: PRODUCTION PROGRAMMES

SUMMARY : ARMSCOR'S TECHNICAL CONTRACT REQUIREMENTS FOR PRODUCTION PROGRAMMES.

KEY WORDS : TECHNICAL CONTRACT CONDITIONS, ENGINEERING EFFORT, PRODUCTION PROGRAMMES


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1 SCOPE

1.1 PURPOSE

A-STD-61 formulates different sets of technical contract conditions from which Armcor's requirements for the management of the technical effort during the execution of a contract or order should be selected.

1.2 APPLICATION

These sets of requirements must be tailored to suit the acquisition / procurement of specific product systems, products, product sub-systems and components for the specific ORDER.

When these requirements are applied to an ORDER between the Prime CONTRACTOR and a Sub-contractor, the Prime CONTRACTOR may, at his discretion or as specified by Armcor, impose tailored requirements based on these requirements.

2 REFERENCE DOCUMENTS

MIL-STD-756	Reliability Modelling and Prediction
MIL-STD-1543	Reliability Program Requirements for Space and Launched Vehicles
RSA-MIL-STD-3	Acquisition Baseline, Standards for
RSA-MIL-STD-8	Minimum requirements for Software Development
RSA-MIL-STD-10	Manuals, Technical : General Style and Format Requirements
RSA-MIL-STD-122	Documentation, User System, General Requirements for (SA Army)
RSA-MIL-STD-128	Training, User System, General Requirements for (SA Army)

3 DEFINITIONS

3.1 ARMSCOR'S PROGRAMME MANAGER

The person, or his delegated representative, designated by ARMSCOR to assume the programme management responsibility for user and CONTRACTOR interfaces.

3.2 CERTIFICATION

Legal recognition by the certification authority that a product, service, organisation or person complies with the requirements. Such certification comprises the activity of technically checking the product, service, organization or person and the formal recognition of compliance with the applicable requirements by issue of a certificate, license, approval or other documents as required.



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3.3 CERTIFICATION FOR SAFETY OF FLIGHT

The definition in §3.2 applies.

In addition certification of a product for safety of flight involves:

- i. The process of assessing the design of a product to ensure that it complies with a set of standards applicable to that type of product so as to demonstrate an acceptable level of safety;
- ii. The process of assessing an individual product to ensure that it conforms with the certified type design; and
- iii. The issuance of a certificate required by national laws to declare that compliance or conformity has been found with standards in accordance with items (i) or (ii) above.

3.4 CONCEPT PHASE

The period during which comprehensive system studies and experimental hardware efforts are accomplished. Activities that are included are:

- Feasibility assessment;
- Logistic support estimate;
- Trade-off studies; and
- Cost-effectiveness and utility studies.

The product of this phase is normally the functional baseline.

3.5 CONTRACTOR

The party with whom the order has been placed by ARMSCOR, and includes the CONTRACTOR's successors, legal representatives and permitted assignees.

3.6 CONTRACT BASELINE

A document or set of documents formally designated and fixed at a specific time during a configuration item's (CI's) life cycle forming the basis for contracting and control. Baselines, plus approved changes to those baselines, constitute the current basis for control.

RSA-MIL-STD-3 identifies and defines the following six baselines:

- Statement of Requirements Baseline (SRBL);
- Functional Baseline (FBL);
- Allocated Baseline (ABL);
- Product Baseline (PBL);
- Manufacturing Baseline (MBL); and
- Operational Support Baseline (OSBL).



3.7 DEFINITION PHASE

The objective of the Definition Phase is to identify and analyse major system alternatives, examine risky sub-systems and determine whether to proceed with development. The product of this phase is normally the Allocated Baseline.

3.8 DEVELOPMENT PHASE

The purpose of the Development Phase is to provide the design documentation necessary for production and the integrated logistic support documentation necessary to fully support the system. This is done by completing detailed design and demonstrating that reliability, producibility, supportability and performance requirements have been met. The product of this phase is normally the Product Baseline.

3.9 PRODUCTION PHASE

The primary objective of the Production Phase is to produce and deliver an effective, fully supported system at an optimal cost within the timescales.

3.10 QUALIFICATION

The process of objectively demonstrating whether an entity is capable of fulfilling specified requirements.

3.11 QUALITY RECORD

A quality record provides objective evidence of the extent of the fulfilment of the requirements for quality or the effectiveness of the operation of a quality system element. The following are examples of quality records:

- Test data;
- Qualification reports;
- Calibration data; and
- Inspection reports.

3.12 SEGMENT PLAN

A Segment Plan is an engineering management plan which covers all the phases in the acquisition process of a specific sub-programme.

Such a plan, agreed upon between the contracting parties, constitutes a memorandum of agreement between the parties and cover aspects such as:

- Major acquisition milestones and schedules;
- Key milestone schedule;
- Interface milestone schedule;
- High level Work Breakdown Structure (WBS);
- High level Contract WBS (CWBS);
- Deliverables;
- Client-furnished equipment (CFE);



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- Mandates, policies, values;
- Technical conditions;
- Resource requirements and cash flow;
- Contract phasing; and
- Security.

3.13 USER

The delegated representative of the end user of the system(s)/equipment.

3.14 VALIDATION

Confirmation by examination and provision of objective evidence that the particular requirements for a specific intended use are fulfilled.

3.15 VALUE SYSTEM

A collection of elements, including goals, limitations, evaluation factors and criteria for decision-making, which provides a basis for rational decision-making.

3.16 VERIFICATION

Confirmation by examination and provision of objective evidence that specified requirements have been fulfilled.

4 GENERAL REQUIREMENTS

4.1 DOCUMENT BREAKDOWN

Part 1 : Contract Conditions, Technical, Standard for Highly complex programmes

Part 2 : Contract Conditions, Technical, Standard for Medium complex programmes

Part 3 : Contract Conditions, Technical, Standard for Non-complex programmes

Part 4 : Contract Conditions, Technical, Standard for Production programmes

Part 5 : Contract Conditions, Technical, Standard for Commercial Off-the-shelf (COTS) procurement

Part 6 : Contract Conditions, Technical, Standard for Maintenance programmes

Part 7: Contract Conditions, Technical, Standard for Refining an Operating Baseline for Existing Systems.

4.2 SELECTION GUIDELINES

When these requirements are used for contracting, the following selection guidelines should be considered in order to select the most applicable contracting base (Parts 1 to 7) for compiling specific CONTRACT conditions (see Parts 1 to 7):



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4.2.1 Part 1 should be used when:

- The programme's technical complexity is high, i.e. many complex interfaces, multi-discipline, unknown/untried technologies, etc;
- Technical and financial risks are medium to high;
- System complexity and/or system CONTRACTOR maturity requires a well-structured engineering process and detailed Armscor management;
- System level 5 or higher is involved.

4.2.2 Part 2 should be used when:

- The programme's technical complexity is high, i.e. many complex interfaces, multi-discipline, unknown/untried technologies, etc;
 - Technical and financial risks are medium to high;
 - System level 5 or higher is involved;
 - Management of the system engineering process is delegated to the CONTRACTOR because his maturity does not require in-depth Armscor management;
- OR
- The technical complexity is medium;
 - Technical and financial risks are low to medium;
 - System level 5 or lower is involved;
 - The system complexity does not require in-depth Armscor management.

4.2.3 Part 3 should be used when:

- The technical complexity and risks are low, i.e. single-discipline, known technologies, simple or well-defined interfaces;
- There are well-defined and developed components for complex items;
- The system engineering process requires minimal Armscor involvement.

4.2.4 Part 4 should be used when:

- The scope of the ORDER is limited to production.

4.2.5 Part 5 should be used when:

- The scope of the ORDER is limited to procurement of commercial off-the-shelf items (COTS).

4.2.6 Part 6 should be used when:

- The scope of the ORDER is limited to maintenance.



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4.2.7 Part 7 should be used when:

- The scope of the order is limited to the refining of an Operating Baseline for existing systems.

4.3 TAILORING

Since it is seldom possible to apply such a detailed set of conditions as is, tailoring normally becomes necessary. To assist with tailoring the separate parts of A-STD-61 are available in electronic format.

The basic procedure for tailoring these sets of requirements is as follows:

- i. Select the part (i.e. Parts 1 to 7) of these sets of requirements that is most applicable to the programme and use it as a basis for tailoring.
- ii. Select those individual requirements that need to be upgraded/downgraded and replace them with the relevant requirements from the remaining parts (without change).
- iii. Update general or unique specifications, reporting frequencies and/or people responsible, if required (example: MIL-STD-756 for general components or MIL-STD-1543 for space systems, changing from monthly to two-monthly; replacing programme manager with quality assurance representative, etc.).
- iv. Update those requirements which need to be adapted for use in the specific CONTRACT.
- v. Add special requirements which are not included in the standard set of requirements.

5 DETAILED REQUIREMENTS

See Appendix 1 of Parts 1 to 7 for the detailed sets of standard CONTRACT conditions.

6 NOTES

- 6.1 Documents applicable only to certain Arms of the Service e.g. RSA-MIL-STD-122 and RSA-MIL-STD-128 for the SA Army or RSA-MIL-STD-10 for the SA Air Force, are not referred to in parts 1 to 7 of the standard contract conditions.
- 6.2 **MINIMUM REQUIREMENTS FOR SOFTWARE DEVELOPMENT**
When tailoring contractual requirements for software development, minimum requirements as described in RSA-MIL-STD-8 must be adhered to.
- 6.3 Guidelines for tailoring of A-STD-61 for technology development are provided in the form of Annexures to Part 1, Part 2 and Part 3. Programme managers must select the part most relevant for the specific technology programme.



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- 6.4 When a CONTRACTOR subcontracts, using the technical contract conditions of A-STD-61, the name ARMSCOR must be replaced by the CONTRACTOR's own name.

**APPENDIX 1:
CONTRACT CONDITIONS, TECHNICAL,
PRODUCTION PROGRAMMES
(Superseding ACSA/E5)**

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1 GENERAL

1.1 APPLICABILITY OF DOCUMENTS

This document forms ARMSCOR's standard for technical contract conditions.

Where any of these conditions are in conflict with any special terms, conditions, stipulations or provisions incorporated in any documents in the ORDER, the following order of precedence of documentation shall prevail:

- i. Special terms and conditions of the ORDER;
- ii. ARMSCOR's general conditions of CONTRACT (e.g. A-STD-0020);
- iii. ARMSCOR's standard technical contract conditions;
- iv. RSA Military standards and directives;
- v. DOD Military standards and directives;
- vi. Other interpretive documents.

1.2 DOCUMENTS

The following documents, of the issue in effect on the date of request for proposal or as stated in the ORDER, form part of these conditions of the ORDER to the following extent:

1.2.1 Applicable Documents

Conformance required to the extent stipulated in the order:

ISO 9002	Quality Systems Model for Quality Assurance in Production, Installation and Servicing
MIL-STD-973	Configuration Management
RSA-MIL-STD-51	Quality Assurance Plans, Standard for
RSA-MIL-STD-176	Configuration Management
Forms	
K217	Modification Proposal
K225	Inspection / Release / Acceptance Certificate
K226	Inspection Rejection Note
K227	Concession (Waiver)
K228	Deviation Permit
K229	Corrective Action / Revise Note

1.2.2 Reference Documents

To be used as guidelines only - refer to Annexure A.



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1.3 DEFINITIONS

The definitions in paragraph 3 of the main part of A-STD-61 are applicable. For additional definitions refer to Annexure B.

1.4 GENERAL NOTES

- 1.4.1 Where practical, different deliverable documents may be consolidated into one document for cost-effective reasons. This note does not allow for any changes to contractual requirements with regard to content or authorisation.
- 1.4.2 The CONTRACTOR can obtain contracted technical documentation from ARMSCOR where copyright is vested in ARMSCOR.
- 1.4.3 In subcontracting, the CONTRACTOR shall make the relevant technical contract conditions applicable. (Refer to paragraph 6.4 in the main part of A-STD-61.)

2 GENERAL RIGHTS OF ARMSCOR

If required, the CONTRACTOR shall provide, free of charge, to the Quality Assurance Representative (QAR) and each member of his staff:

- Suitable partitioned office accommodation;
- Secure documentation storage facilities; and
- Equipment which is necessary for the QAR's acceptance / formal testing and evaluation.

3 PRODUCTION ENGINEERING

The CONTRACTOR shall develop and submit a Production Plan to ARMSCOR's programme manager for approval at the commencement of each programme.

3.1 QUALIFICATION PROGRAMME

The CONTRACTOR shall qualify all production processes prior to commencement of production, taking cognisance of the importance of each process based upon the classification of characteristics. Depending on the nature of the contracted supplies, ARMSCOR reserves the right to subject the first production model/s to an approved qualification programme in order to qualify the data pack and the production processes.

When evaluation or verification must be performed by any ARMSCOR approved test facility, or if such test facility is requested to perform qualification, the necessary documentation, operating instructions, and, if applicable, interface equipment shall be supplied to the test facility.



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The Production Plan shall address the way in which Process Qualification will be performed and validated, using RSA-MIL-PRAC-190, part 2 and DOD-5000.38 as guidelines.

3.2 SPARE ITEM CONTROL

All sub-assemblies / modules which will be supplied as spares shall go through the same manufacturing process controls and acceptance inspection / test controls as the manufactured product. This includes burn-in in the case of electronic equipment.

3.3 CLIENT-FURNISHED EQUIPMENT (CFE)

The CONTRACTOR shall be responsible for ascertaining that CFE complies to its specification on receipt from ARMSCOR or ARMSCOR specified supplier.

3.4 PRODUCTION FLOW DIAGRAM

The CONTRACTOR shall, before the start of production, submit to ARMSCOR a production flow diagram which indicates all in-process inspection and test points for each part, unit, sub-assembly and assembly.

The QAR, in conjunction with the Programme Manager, will indicate to the CONTRACTOR all mandatory ARMSCOR hold points on the flow diagram. Bypassing a mandatory hold point will lead to the invalidation of the results of all tests / inspections performed after the hold point.

3.5 BUILD AND WORKMANSHIP STANDARDS

The CONTRACTOR shall, before the start of production, establish and submit workmanship standards to ARMSCOR's programme manager for approval.

In the case of electronic equipment, the CONTRACTOR shall submit a "Build Standard" document to ARMSCOR's program manager for approval prior to commencement of production, using K-STD-5000 as a guideline.

3.6 ENVIRONMENTAL STRESS SCREENING (ESS) - FOR ELECTRONIC EQUIPMENT

The CONTRACTOR shall obtain approval from ARMSCOR on the proposed Environmental Stress Screening (burn-in) plan at a pre-ORDER award meeting.

4 CONFIGURATION MANAGEMENT

4.1 GENERAL

The CONTRACTOR shall be able to demonstrate prior to placement of ORDER an integrated configuration management system conforming to MIL-STD-973 and RSA-MIL-STD-176, tailored to satisfy the requirements of the ORDER.

ARMSCOR shall have the right to carry out periodic audits of the CONTRACTOR's configuration management system, including independent Physical and Functional Configuration Audits.



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4.2 CONFIGURATION MANAGEMENT PLAN

The CONTRACTOR shall establish, implement and maintain a Configuration Management Plan, using RSA-MIL-STD-176 and MIL-STD-973 as guidelines. The Configuration Management Plan must conform to the requirements of the Programme's Configuration Management Plan.

4.3 CONFIGURATION CONTROL

The CONTRACTOR's configuration management system shall provide for procedures which will ensure that the latest applicable drawings, specifications and instructions, as well as authorized changes thereto, are used for manufacturing, inspection and testing.

4.3.1 Changes and Variations

The CONTRACTOR shall control changes to approved baseline documents, including all specifications, drawings, procedures, plans and other formally released ORDER documentation, in accordance with MIL-STD-973.

There shall be no variation from any specification, drawing, laid down process, treatment or procedure as set out in the ORDER and/or embodied in the approved prototype unless approved by ARMSCOR.

Should any variation be necessary, the following procedure shall be adhered to:

4.3.1.1 Engineering Changes

The CONTRACTOR shall classify Engineering Change Proposals (ECP's) into class I or class II in accordance with MIL-STD-973.

The CONTRACTOR shall submit, with sufficient supporting documentation, to ARMSCOR, on form K217, or an agreed upon alternative, class I engineering change proposals for consideration and decision-making and class II changes for concurrence of classification.

4.3.1.2 Deviations

The CONTRACTOR shall classify all deviations as critical, major or minor, in accordance with MIL-STD-973.

The CONTRACTOR shall submit to ARMSCOR, on form K228, or an agreed upon alternative, critical, major or minor deviations for consideration and decision-making, unless otherwise delegated.

4.3.1.3 Concessions (Waivers)

The CONTRACTOR shall classify all concessions (waivers) as critical, major or minor, in accordance with MIL-STD-973.

The CONTRACTOR shall submit to ARMSCOR, on form K227, or an agreed upon alternative, critical, major or minor classified concessions (waivers), for consideration and decision-making, unless otherwise delegated.



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4.3.2 Configuration Control Board (CCB)

The CONTRACTOR shall establish a CCB qualified to advise the CONTRACTOR's programme manager. ARMSCOR's programme manager shall be entitled to attend these board meetings.

The CONTRACTOR's CCB shall be responsible for:

- Reviewing and determining a need for change (unless the change originated from ARMSCOR);
- Determining total change impact;
- Approving submission of a change proposal to ARMSCOR, including Specification Change Notices (SCN's) and Interface Revision Notices (IRN's); and
- Approving changes to sub-contractors' controlled baselines and documents.

Minutes of the CCB shall accompany all proposed changes.

4.3.3 Material Review Board (MRB)

The CONTRACTOR shall establish a MRB, composed of qualified technical representatives to advise the CONTRACTOR's programme manager on the disposition of non-conforming material.

4.4 CONFIGURATION MANAGEMENT RECORDS AND REPORTS

The CONTRACTOR shall maintain, with ARMSCOR's programme manager's approval, configuration records and reports. As a minimum, the CONTRACTOR shall submit build history records for all contractual hardware items. The build history shall contain at least the following:

- Full technical information on each deviation and concession (waiver) from the data pack applicable to the item, as well as all serial / lot numbers of the equipment to which these deviations / concessions (waivers) have been applied; and
- Test / Inspection results.

5 QUALITY MANAGEMENT

5.1 CONTRACTOR'S QUALITY MANAGEMENT SYSTEM

The CONTRACTOR shall maintain a Quality Management System and demonstrate its conformance to ISO 9002 before commencement of the ORDER.

ARMSCOR's representative shall have the right to carry out periodic audits of the CONTRACTOR's management of quality, as well as specific product and CONTRACT audits.



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5.2 QUALITY PLAN

The CONTRACTOR shall establish and maintain a Quality Plan. The Quality Plan shall conform to RSA-MIL-STD-51, where applicable. The Quality Plan shall be approved by ARMSCOR's programme manager.

5.3 RIGHT OF ACCESS

ARMSCOR or persons designated by him shall have free access to all relevant sections of the place or places where work to fulfil the requirements of the ORDER is performed for the purpose of conducting / witnessing any audits, inspections or tests.

5.4 QUALITY RECORDS

The CONTRACTOR shall provide and maintain a quality record system. Quality records shall be maintained to demonstrate conformance to specified requirements and the effective operation of the quality system. Pertinent quality records of sub-contractors shall be an element of this data.

The CONTRACTOR shall maintain adequate records of all inspections and tests for the duration of the ORDER or any such period as contractually required.

The records shall indicate the number and type of deficiencies found, the quantities approved or rejected and the nature of corrective action taken as appropriate.

5.4.1 Inspection and Testing Documentation

Inspection and testing shall be performed in accordance with unambiguous, complete and current instructions.

Final acceptance tests shall be as described in the ORDER or contracted documents. Criteria for approval and rejection of supplies will be specified in the ORDER or contracted documents.

5.5 SAMPLING PLANS

Where the CONTRACTOR decides to do inspection by means of sampling, the basis for the selection of the sampling plan and the sampling risks connected with the plan shall be documented and submitted to ARMSCOR's programme manager for approval.

5.6 CORRECTIVE AND PREVENTIVE ACTION SYSTEM

The CONTRACTOR shall provide and maintain a corrective and preventive action system.

ARMSCOR shall have the right to request corrective action on any process, system or control which could, if not corrected, cause non-conformances in the supplies. Requests for corrective action by ARMSCOR shall be by means of a written Corrective Action Request / Advice Note (form K229).

The CONTRACTOR shall take prompt action to correct conditions which have resulted or could result in the submission to ARMSCOR of supplies and services which do not conform to the requirements of the ORDER.

5.7 QUARANTINE SYSTEM

The CONTRACTOR shall provide and maintain a quarantine system.



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Any MATERIEL or manufactured item which is found to deviate from the specified requirements, shall be marked or labelled and placed in quarantine until a decision to use as is, rework or scrap has been made.

Items placed in quarantine, shall only be released for use when a concession (waiver) has been authorized in terms of the ORDER.

Items, for which application for a concession (waiver) has been refused, shall be released from quarantine for disposal or rework purposes only.

5.8 CONTROL OF INSPECTION, MEASURING AND TEST EQUIPMENT

The adequacy of inspection, measuring and test equipment used by the CONTRACTOR to demonstrate conformance to the specified requirements, shall be ensured and demonstrated. Inspection, measuring and test equipment shall be calibrated and used in a manner which ensures that the measurement uncertainty is known and is consistent with the required measurement capability. Traceability to national calibration standards shall be maintained and on request, be demonstrated.

As a minimum, the CONTRACTOR shall maintain throughout the ORDER a set of reference instruments for checking and calibrating all test and inspection equipment as applicable and:

- All instruments shall be calibrated against reference instruments at least at six monthly intervals. (Depending on the circumstances, the QAR may require certain instruments to be checked at shorter intervals);
- Calibration dates shall appear on all instruments. No instrument shall be used after its calibration validity has expired; and
- The inspection organisation shall take steps as approved by the QAR, for the checking and calibration of reference instruments. Results of these tests shall be made available to the QAR on request.

6 ACCEPTANCE AND RELEASE

6.1 ACCEPTANCE / FORMAL TEST AND EVALUATION

Acceptance / Formal Test and Evaluation shall be undertaken at a venue agreed upon with ARMSCOR's programme manager. The CONTRACTOR shall notify ARMSCOR of such acceptance / formal test and evaluation dates at least five (5) working days or such periods agreed prior to the date of such acceptance / formal test and/or evaluation.

The CONTRACTOR shall submit acceptance standards and procedures to ARMSCOR's program manager for approval, prior to ORDER placement. Before submitting an item or a batch of items to the QAR, the CONTRACTOR shall have complied with the requirements of the ORDER.

The QAR may at his discretion, undertake a sampling inspection or a 100% screen.



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6.2 ACCEPTANCE

MATERIEL shall be accepted by ARMSCOR's programme manager or his representative by means of an Inspection Release Certificate (form K225) or an agreed upon alternative, once the following conditions have been met:

- Certificate of Conformance / Analysis has been issued, providing objective evidence that the MATERIEL conforms to the requirements of the ORDER and has been controlled in terms of the quality plans. The certificates shall be issued and signed by an authorized representative of the CONTRACTOR, and shall include all concessions (waivers) and deviations from the ORDER; and
- ARMSCOR's programme manager or his representative has satisfied himself that the MATERIEL conforms to the ORDER.

In the case of electronic equipment, the Acceptance Test Procedure (ATP) shall address the following:

- Burn-in shall have been performed in accordance with paragraph 3.6.
- A 'B' test shall have been performed on all items or on a sample basis, as specified in the ATP;
- Prior to reliability or acceptance tests, the equipment shall be subjected to a rest, or stabilization, period of not less than seven days;
- All equipment shall have been subjected to an 'A' test;
- Production reliability demonstration tests shall be conducted if required by the ORDER;
- The ATP shall indicate the involvement of the QAR such as witnessing of tests, scrutinising burn-in and the resultant test results, fulfilment of User documentation requirements, and the checking of packing and packaging;
- The QAR has the right to assist at any or all of the above tests, and may submit any part, item, material or process to such additional tests to prove its suitability as he/she deems necessary; and
- After completion of an agreed number of production models, the QAR will select a set at random for a C-test as specified in the ORDER.

If any supplies or lots thereof are defective in material, workmanship or performance, ARMSCOR shall have the right to reject these supplies or to require its correction free-of-charge.

MATERIEL which is found not to conform to specified requirements shall be rejected by means of an Inspection Rejection Note (form K226). The reasons for rejection and the requirements necessary for re-submission will be stated on the Inspection Rejection Note.

If the CONTRACTOR persists in submitting defective supplies to the QAR for acceptance, ARMSCOR shall have the right to:

- Refuse to scrutinise supplies submitted until the defect(s) and cause(s) responsible for the defect(s) have been identified and corrective action which shall prevent future non-conformance has been taken; and/or
- Terminate the ORDER for default.

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The payment and/or release of the supplies by ARMSCOR shall not relieve the CONTRACTOR of his responsibility for any service, part, material, workmanship, performance or design which may subsequently prove to be defective.

The CONTRACTOR shall also be responsible for the quality and suitability of all components and sub-assemblies received from other suppliers, vendors or sub-contractors.

6.3 DISPUTES AND ARBITRATION

Disputes relating to quality matters or related contractual requirements, which cannot be resolved between the QAR and the CONTRACTOR, must be referred to the Programme Manager and ARMSCOR's Quality Manager for arbitration.

ANNEXURE A: REFERENCES

A-STD-0020	Armcor's General Conditions of Contract
DOD-5000.38	Production Readiness Review
K-STD-5000	Armcor Standard General Requirements for Electronic / Electrical Equipment
RSA-MIL-PRAC-190	Praktyk vir die Kwalifikasie van Stelsels (Deel 2)

ANNEXURE B: ADDITIONAL DEFINITIONS

1. ACCEPTANCE TEST PROCEDURE (ATP)

The ATP is that procedure or plan which details the method(s) the CONTRACTOR must employ to demonstrate that the item, product or system conforms to the User requirement and/or the contractual specification.

2. CERTIFICATE OF CONFORMANCE

A CONTRACTOR's written statement certifying that the product or service conforms to ORDER requirements.

3. CONCESSION (WAIVER)

A written authorization (on form K227) to accept an item or certain items which during manufacture / maintenance or after having been submitted for inspection, is found to depart from specified requirements but nevertheless is considered suitable for use.

4. CONFIGURATION CONTROL

Configuration Control involves the systematic evaluation, coordination and approval or rejection of proposed variations to a configuration item and its associated documentation.

5. CORRECTIVE ACTION REQUEST / ADVISE NOTE (form K229)

This is a form identifying and highlighting a non-conformance which requires corrective action within a given period.

6. DEVIATION

A written authorization (on form K228), granted prior to manufacture / maintenance of an item to depart from a particular performance or design requirement of an ORDER, specification or reference document, for a specified number of units or specified period of time.

7. FINAL ACCEPTANCE TEST CLASSIFICATION (FOR ELECTRONIC EQUIPMENT)

For the purpose of any manufacturing ORDER, local or overseas, tests shall be defined as follows:

- A-Test : A full functional test against the specification, performed at room temperature of +20 -5°C.
- B-Test : A full functional test against the specification, performed at room temperature of +20 -5°C and at those temperature extremes as specified in the ORDER. If no temperature extremes are specified, +20, +55°C and -15°C will be deemed the operational environment.
- C-Test : A full functional and environmental test as contractually specified.



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8. HOLD POINT

A Hold Point is any mandatory hold in the programme flow, where ARMSCOR's decision is a requirement.

9. INSPECTION

The examination and testing of supplies and services including raw materials, components, intermediate assemblies, test equipment, gauges, software and documentation to determine whether these conform to specified requirements.

10. INSPECTION REJECTION NOTE (form K226)

An Inspection Rejection Note is a form completed by an authorised ARMSCOR's representative rejecting the item, product, system or service and cancelling the Certificate of Conformance.

11. INSPECTION RELEASE CERTIFICATE (form K225)

A form issued by the QAR certifying that contractual items and/or services conform to the technical and quality requirements of an ORDER, and authorising despatch or delivery.

12. MODIFICATION

A modification is a design change to an item which necessitates a specification and/or drawing change and affects User logistics. The item identification number may or may not be changed as a result of the modification.

13. NON-CONFORMANCE

Product performance, material, components, workmanship, manufacturing process and quality systems which are not according to contractual requirements and agreed instructions, procedures and standards, are classified as non-conformances.

14. PROGRAMME MANAGER

The person designated by ARMSCOR to accept overall programme / project responsibility on his behalf.

15. QUALITY ASSURANCE REPRESENTATIVE (QAR)

QAR shall mean any official appointed by ARMSCOR to act on its behalf for a specific ORDER in all matters pertaining to conformance to the ORDER.

16. SURVEILLANCE

Surveillance is the inspections, tests and assessments of the CONTRACTOR's and his sub-contractors control of the configuration, tests, inspections, processes and quality systems which are required to effectively fulfil the requirements of the ORDER.



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17. TECHNICAL COMMITTEE

A body constituted by ARMSCOR, during the contract negotiation stage or as soon as possible thereafter to advise him on all technical aspects of the programme. The committee shall normally be constituted as follows:

- The programme manager;
- The quality assurance representative of ARMSCOR;
- The user representative/s; and
- The CONTRACTOR's representative.

APPENDIX 2: ABBREVIATIONS

ABL	Allocated Baseline
ATP	Acceptance Test Procedure
CCB	Configuration Control Board
CFE	Client-furnished equipment
CI	Configuration Item
COTS	Commercial Off-the-shelf
CWBS	High level Contract WBS
ECP	Engineering Change Proposals
ESS	Environmental Stress Screening
FBL	Functional Baseline
IRN	Interface Revision Notice
MBL	Manufacturing Baseline
MRB	Material Review Board
OSBL	Operational Support Baseline
PBL	Product Baseline
QAR	Quality Assurance Representative
SCN	Specification Change Notice
SRBL	Statement of Requirements Baseline
WBS	Work Breakdown Structure