



CHECKLIST FOR RELAYS


MANUFACTURER AND LINE SURVEY

ESCC Basic Specification No. 2023600

Manufacturer :
Location :
Survey Team Leader :
Date of Survey :
Relay Type(s) :

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CHECKLIST FOR RELAYS


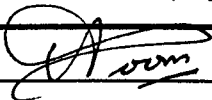
MANUFACTURER AND LINE SURVEY

ESA/SCC Basic Specification No. 2023600

Manufacturer :
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**space components
coordination group**

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ISSUE 1

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1. **INTRODUCTION**

This checklist is intended for use during the initial survey of a Manufacturer's ability to produce high quality articles, his management organisation, production facilities, test facilities and technical know-how. When completed, this checklist should enable the party interested in procurement of the subject components to assess the ability of the Manufacturer concerned to successfully execute a contract for the supply of high reliability space hardware.

2. **SURVEY CHECKLIST**

2.1 **INTERVIEW ON ARRIVAL OF SURVEY TEAM**

(a) Introductory Remarks by Team Leader (Explanation of purpose of survey, procedures to be followed, time limitations, etc.):-

(b) Notes (Atmosphere during reception, willingness to co-operate, interest shown, comments on personnel, general remarks):-

2.2 **MANUFACTURER AND SURVEY TEAM INFORMATION**

(a) Survey requested by :
 Survey Team Leader :
 Team Members :

(b) Key personnel of Manufacturer interviewed:-

Name	Function	Tlph. Ext.
1.		
2.		
3.		
4.		
5.		



(c) Type of Company (Private company, limited company, etc.)

Affiliated with any other company? If so, which:

No. of employees:

- Total number :
- Production :
- Quality Assurance :
- Q.A. Inspection :
- Prod. Engineering :
- Design Engineering :
- Reliability Control :
- Other :

(d) Number of shifts :

(e) Plant area :

(f) General production line :

(1) Device types manufactured:

(2) Will flow diagrams of steps to produce relays be available to Survey Team?

YES NO

Are specifications, if any, referenced in the flow diagrams?

YES NO

(g) Principal Government and industrial customers:-

- 1.
- 2.
- 3.
- 4.
- 5.

(h) The Manufacturer's Quality System is organised in accordance with:

Comments



(i) Manufacturer's Government Service Inspection:

DCAS Inspector, resident/non-resident

(j) National Inspectorate:

(k) Is the Manufacturer's relay production

(1) Continuous?	YES	NO
(2) Pilot production?	YES	NO
(3) Advanced R&D, limited?	YES	NO

(l) The Manufacturer has adequate experience in the production of the following hi-rel parts:-

2.3 MANAGEMENT ORGANISATION

(a) What is general policy/attitude of the Management regarding quality/reliability programme?


(b) Which level of Management participates actively in orientating policy towards space component production?

(c) Which organisation, if any, reviews and monitors all work involved in space component production?

(d) Is work related to space components (contracts) regarded as "normal business" or as belonging to the "unique order" category?

(e) What is the general policy concerning proprietary rights?

(f) Has the "Reliability" department the same authority from Management as the "Engineering" and "Production" departments? Does this mean direct responsibility for reliability of products in the line?

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(g) Has the Q.A. Manager direct authority for implementation of quality policy and actions related to the line?

(h) Does a system exist for the regular supply of quality report summaries to Management?

Does this system lead to (corrective) actions being taken in respect of the production line?

(i) Are key management staff notified of persistent out-of-control conditions?

(j) What is length of service and experience of key management personnel (Q.A., Reliability, Production, Engineering Design)?

(k) How would contract for space components be organised?

(l) How can original requirements from Orderer (Space Agency or end-user) be assumed to be correctly translated into internal instructions?

(m) How can information necessary to the Orderer (corrective actions, deviations, notification of inspections and/or problem areas) be assumed to be issued and channelled to the Orderer?



2.4 QUALITY ASSURANCE SYSTEM AND ORGANISATION

(a) To whom does Q.A. Manager report?

(b) Does the company reflect a positive attitude towards Quality Assurance? YES NO
_____ _____
Comments

(c) Has the Q.A. group sufficient authority in relation to its position within the company's organisation (see organigram)? _____ _____
Comments

(d) Are areas of responsibility within the Q.A. group clearly defined? _____ _____
Comments

(e) Are corrective actions to which Q.A. management is committed delegated to responsible staff or does Q.A. management have direct authority regarding the line? _____ _____
Which?

(f) Is there a periodic and comprehensive quality data reporting system which covers all operational phases? _____ _____
Comments

(g) What is the relationship between Q.A. and Reliability?

(h) Is a Q.A. manual or equivalent document supplied to all levels of appropriate supervisory personnel? _____ _____
Is such document kept updated? _____ _____
Comments



	YES	NO
(i) Are written procedures available for identification and positive control of accepted/rejected materials?	___	___
Comments		
(j) What is ratio Q.A. inspectors : personnel directly involved in production?		
(k) Is inspection (acceptance sampling or sorting) performed by Q.A. personnel:-		
On receipt? Sampling ___ Sorting ___ None ___		
During processing? Sampling ___ Sorting ___ None ___		
During final testing? Sampling ___ Sorting ___ None ___		
Comments		
(l) Are written procedures kept and used in areas for:-		
Receiving inspection?	___	___
In-process inspection?	___	___
Fabrication processing?	___	___
Final testing?	___	___
Comments		
(m) Does Q.A. maintain a system of written procedures for statistic controls (control chart, lot plot, etc.) in any of the following areas?		
In-process inspection?	___	___
Fabrication processing?	___	___
Final inspection?	___	___
Comments		
(n) Is Q.A. responsible for determination of need for, and the conducting of, quality training?	___	___
Comments		
(o) Are training programmes provided for special process personnel?	___	___
Comments		



	YES	NO
(p) Do employees have to pass tests:-		
After training?	___	___
Periodically?	___	___
Comments		
(q) Are production operators provided with visual aids and working instructions?	___	___
Comments		

2.5 CALIBRATION

(a) Does Manufacturer maintain calibration facilities and standards?	___	___
Is this service purchased?	___	___
If so, from whom?		
(b) Do calibration personnel have written procedures for control and a time schedule for measurement frequency?	___	___
Comments		
(c) Is there an effective calibration record control system?	___	___
(d) Are calibration procedures adhered to and up-to-date?	___	___
Comments		
(e) Are decals used for equipment identification to show that units have been calibrated; when next calibration date is due and calibrator identification?	___	___
Are decals up-to-date?	___	___
(f) Are adjustments of calibrated equipment required to be sealed and tamper-proof?	___	___
(g) Who is in charge of initiating calibration steps?		
User	___	___
Calibration personnel	___	___
Q.A.	___	___



	YES	NO
(h) Do calibration procedures provide for removal of any equipment not maintained or calibrated according to established schedules? Comments	___	___
(i) Have calibrating personnel up-to-date certification records reflecting date, traceability to NBS and identification of calibrator? (1) Mechanical standard? (2) Electrical standard?	___ ___ ___	___ ___ ___
(j) Is modified and/or repaired equipment calibrated prior to release?	___	___

2.6 DRAWING AND CHANGE CONTROL

(a) Has Manufacturer adequate written procedures for control of specification and contract changes? Comments	___	___
(b) Does Manufacturer's system provide for documented change control guaranteeing availability of required drawing at relevant manufacturing or inspection step? Do flow documents show current revisions? Comments	___ ___	___ ___
(c) Are drawings furnished by ESTEC and contract changes adequately controlled? Comments	___	___
(d) Does Q.A. review all drawings and changes therein prior to their becoming effective? Comments	___	___
(e) Has Manufacturer established a procedure for notifying his Supplier of changes in drawings? Comments	___	___
(f) Are current specification revisions shown on prints of drawings?	___	___

2.7	<u>RELIABILITY</u>	YES	NO
	(a) Is structure of Reliability organisation clearly defined?	___	___
	Has Reliability same authority in respect of the line as Production or Engineering management?	___	___
	Comments		
	(b) Is there a direct feed-back of information between Reliability, Design Engineering and Q.A. groups to ensure timely notification of all relevant data?	___	___
	Comments		
	(c) Does Reliability respond promptly and efficiently to unexpected and/or newly detected failure modes?	___	___
	Comments		
	(d) Are line failures (types and causes) analysed and reported to those responsible for corrective actions?	___	___
	(e) Are corrective actions resulting from failure analysis agreed with the Q.A. group involved or Reliability if parts or process changes must be made?		
	Q.A. Group	___	___
	Reliability	___	___
	Comments		
	(f) Has Reliability right to approve test specifications, data tabulation, parts or process changes?	___	___
	(g) Is there a system for in-process failure analysis?	___	___
	End-item failure?	___	___
	Reporting?	___	___
	Comments		

	YES	NO
(h) Are following items submitted to failure analysis as a matter of routine?		
- Production line rejects	___	___
- Lots with a high rejection rate	___	___
Define:-		
- Items returned by Orderer	___	___
- Items returned by Orderer with special request for failure analysis	___	___
(i) Has Manufacturer a failure analysis laboratory or an equivalent facility?	___	___
Comments		
(j) Are failure analysis procedures:-		
(1) Available?	___	___
(2) In use?	___	___
(3) Adequate?	___	___
Comments		
(k) Is failure analysis equipment:-		
(1) Available?	___	___
(2) In use?	___	___
(3) Adequate?	___	___
Comments		
(l) Are there special personnel for failure analysis?	___	___
Comments		
(m) Are failure analysis reports:-		
(1) Available?	___	___
(2) Adequate?	___	___
Comments		
(n) Has Reliability a programme to ensure reliability of discrete device designs prior to release thereof?	___	___
Comments		

	YES	NO
(o) Has Reliability access to all pertinent development and production data of discrete devices for analysis purposes? Comments	___	___
(p) Is reliability data available of discrete devices from the line(s) which the Manufacturer wishes to be approved? Comments	___	___
(q) Has Manufacturer an evaluation laboratory for determination of product characteristics?	___	___
(r) If Manufacturer has an evaluation laboratory: - Does it operate according to an established programme? or - According to special requests? Comments	___ ___	___ ___
(s) Give examples of problems investigated by evaluation laboratory		
(t) Are laboratory results available on request?	___	___
(u) Are data sheets based on these results?	___	___

2.8 CONTROL OF PROCUREMENT SOURCES

(a) Has Manufacturer adequate written procedures for purchase control of materials, components and services? Comments	___	___
(b) Has Manufacturer an effective vendor rating system? Comments	___	___



	YES	NO
(c) Does rating system provide for effectiveness of written corrective actions received from Suppliers?	—	—
Comments		
(d) Do purchase documents require delivery of test reports if such reports are specified in the relevant ESA contract?	—	—
Comments		
(e) Is there a means of channelling information when specification changes require modification of current purchase orders?	—	—
Is "Receiving Inspection" notified of changes in purchase orders?	—	—
Comments		

2.9 CONTROL OF INCOMING MATERIALS (Performed in situ)

(a) Are Manufacturer's written standard inspection procedures adequate for control of incoming materials and services received?	—	—
Do inspectors know how and when to apply these procedures?	—	—
Comments		
(b) Are materials received in a controlled area from which removal prior to inspection is impossible?	—	—
Comments		
(c) Are materials properly handled and protected during the receiving process?	—	—
Comments		
(d) Does Receiving Inspection use drawings and purchase orders?	—	—
If so, do these documents show Quality Control review?	—	—
Comments		
(e) Are test reports from Suppliers being reviewed?	—	—
Comments		



	YES	NO
(f) Are accepted materials adequately identified?	___	___
Do documents show evidence of acceptance?	___	___
Comments		
(g) Are rejected materials adequately identified and segregated?	___	___
Comments		
(h) Which materials are subject to limited shelf life limitations?		
Comments		
(i) Are shelf life and cure date materials properly identified and controlled?	___	___
Comments		
(j) Do records indicate traceability of units, lots and sublots to applicable documents (specification, revision letter - if any - and inspection record)?	___	___
Comments		
(k) Are materials stored in a controlled area under the responsibility of an authorised Custodian?	___	___
Comments		
(l) Are suitable inspections and tests, including physical and chemical tests, performed on raw materials?	___	___
Comments		
(m) Are such tests performed:		
- In-house?	___	___
- At other locations?	___	___
Comments		



(n) Are storage containers, racks, bins, etc. adequate for type of material stored? YES NO
Comments

(o) Is lot traceability maintained? YES NO
Comments

(p) Is "first in/first out" method applied? YES NO

2.10 IN-PROCESS INSPECTIONS AND TESTS

(a) To whom does In-process Q.A. Inspection report?

(b) Are inspection and/or operation travellers used sequential to performance and control of all operations and processes?
Comments

(c) Do travellers refer to inspection procedures?
Do inspectors know how and when to use them?
Comments

(d) Do travellers refer to controlled specifications?
Do specifications show current revision status?
Comments

(e) Does Q.A. have written in-process procedures to control acceptance of products?
Comments

(f) Is type and quantity of available inspection equipment adequate for type of work being accomplished?
Comments



	YES	NO
(g) Are documentation and instruments used by inspectors subject to calibration control?	___	___
Is calibration evident and up-to-date?	___	___
Comments		
(h) Is there a specific material review procedure?	___	___
Comments		
(i) Do in-process Q.A. inspectors summarise quality experience on the basis of specific process stages?	___	___
Do they issue quality reports on a regular basis?	___	___
Do reports result in assistance and/or action?	___	___
Comments		
(j) Are requests for corrective action issued in writing?	___	___
Are such requests answered?	___	___
Does corrective action ensue?	___	___
Comments		
(k) Does Q.A. maintain any statistic controls (X&R, etc.) in the in-process area?	___	___
Are these controls up-to-date and at individual process stations?	___	___
Comments		
(l) Is lot identification maintained throughout processing?	___	___
Comments		
(m) Are there documents describing in-process manufacturing procedures and controls?	___	___
Comments		



	YES	NO
(n) Are there documents describing in-process inspections?	—	—
Do inspectors know how and when to use them?	—	—
Comments		
(o) Are there specific standards for handling, cleanliness and care of materials, parts and equipment?	—	—
Comments		
(p) Are calibrations evidenced and up-to-date?	—	—
(q) Has Q.A. authority to stop production flow in case of out-of-control conditions?	—	—
Is a written material review procedure in use?	—	—
Comments		
(r) Are records maintained of training and competence of operators for welding, soldering, radiography, radiflo and plating?	—	—
Comments		
(s) Are certified operators identifiable by means of a card or badge on their clothing?	—	—
Comments		

2.11 CONTROL OF RELAY ASSEMBLING PROCESSES

(a) Are travellers or route cards available which show the sequence of processes?	—	—
Do they show inspection and test references?	—	—
Do they verify that inspections have been performed	—	—
Comments		
(b) Are documents available which describe manufacturing controls and procedures?	—	—
Comments		



	YES	NO
(c) Are documents available which describe inspections?	___	___
Do the inspectors know how and when to use them?	___	___
Comments		
(d) Are standards for handling, cleanliness and care of materials, parts and equipment specified?	___	___
Comments		
(e) Are calibrations evidenced and maintained up-to-date?	___	___
(f) Does Q.A. have authority to stop production flow in case of out-of-control conditions occur?	___	___
Is a material review procedure described and applied?	___	___
Comments		
(g) Are records maintained on training and competency of personnel for welding, soldering, radiography, radiflo and plating?	___	___
Comments		
(h) Are certified personnel identified by a card or badge on their clothing?	___	___
Comments		
(i) Are controls adequately documented and maintained during the following coil fabrication steps?		
(1) Usage of correct fabrication procedure/applicable specification	___	___
(2) Usage of correct materials	___	___
(3) Method of adjusting winding machine data	___	___
(4) Force of wire during winding process	___	___
(5) Soldering/welding winding to reinforcing leads	___	___
(6) Wrapping insulation film on coil	___	___
Comments		

	YES	NO
(j) Are controls adequately documented and maintained during motor assembly steps?		
(1) Welding return spring to backstop	---	---
(2) Welding pole piece to frame	---	---
(3) Welding backstop to pole piece	---	---
(4) Welding actuators to armature	---	---
(5) Assembling coil to pole piece	---	---
(6) Usage of correct welding time and/or energy, pressure, etc.	---	---
Comments		
(k) Are controls adequately documented and maintained during header assembly?		
Welding of stationary and movable contacts to header pins	---	---
Comments		
(l) Are controls adequately documented and maintained during final assembly?		
(1) Welding of motor assembly to header (incl. coil leads to header pins)	---	---
(2) Demagnetising	---	---
(3) Adjusting parameters	---	---
(4) Mechanical inspection	---	---
Comments		
(m) Are relays cleaned prior to sealing?		
Is 100% cleanliness inspection performed?	---	---
Comments		
(n) Are devices stored and transported in protective carriers after the cleaning operation?		
Comments		
(o) Which type of visual inspection is performed?		



- | | YES | NO |
|--|-----|-----|
| (p) Are rejected parts placed in containers for rejected parts? | ___ | ___ |
| (q) Are rejected parts identified as such?
How? | ___ | ___ |
| (r) What final disposition is made of rejected parts? | | |
| (s) What type of seal is used in sealing the package?
Comments | | |
| (t) Are the following sealing controls, when applicable, documented? | | |
| (1) Pre-seal bake (time, temperature, ambient) | ___ | ___ |
| (2) Humidity during sealing (specify moisture content in ppm) | ___ | ___ |
| (3) Flow rate of gases | ___ | ___ |
| (4) Welding controls (pressure power, time) | ___ | ___ |
| Comments | | |

2.12 FINAL TEST AND INSPECTION

- | | | |
|---|-----|-----|
| (a) Are written inspection and test procedures for product classes on the line available for the final test (Q.A.)? | ___ | ___ |
| Comments | | |
| (b) Do inspectors use assigned stamps to indicate inspection status on materials and accompanying documents? | ___ | ___ |
| Comments | | |
| (c) Are requests for corrective action made in writing? | ___ | ___ |
| Are such requests answered? | ___ | ___ |
| Comments | | |



	YES	NO
(d) Are rejected devices identified and segregated in a controlled area?	___	___
Comments		
(e) Are records of accepted and rejected material maintained?	___	___
Are these records identifiable with such materials?	___	___
Comments		
(f) Are device failures analysed?	___	___
Are device failure analyses summarised and reported by final Q.A.?	___	___
Comments		
(g) Is a summary inspection and test report sent regularly to quality management (lot acceptance, percentage of defectives, types of failure)?	___	___
Do these summary reports result in actions to decrease problem areas?	___	___
Comments		
(h) Is a testing laboratory or equivalent facility available for quality assurance purposes?	___	___
Which of the following tests are performed in the laboratory or facility?		
(1) Electrical tests	___	___
(2) Mechanical tests	___	___
(3) Chemical tests	___	___
Comments		
(i) Are statistical controls of device parameter distribution maintained?	___	___
Are they reported to Q.A. or Reliability?	___	___
Comments		

	YES	NO
(j) Is an environmental test facility maintained in-house?	—	—
If not, state where:		

Are the following tests performed at this facility?

- | | | |
|---|---|---|
| (1) Temperature (high, low, cycle) | — | — |
| (2) Shock (mechanical, thermal) | — | — |
| (3) Acceleration | — | — |
| (4) Vibration (fixed, variable, random noise) | — | — |
| (5) Moisture resistance | — | — |
| (6) Altitude | — | — |
| (7) Radiographic | — | — |
| (8) Hermeticity tests | — | — |
| (a) Fine leak | — | — |
| (b) Gross leak | — | — |
| (9) Lead fatigue | — | — |
| (10) Life tests - operating | — | — |

Is miss test equipment available to monitor devices during the environmental tests?

	—	—
--	---	---

Comments

(k) Is automatic equipment available for electrical testing of devices?	—	—
Go-no-go?	—	—
Comments		

(l) Are charts provided for the monitoring of environmental test equipment?	—	—
Comments		



(m) Is test equipment adequate for fulfilment of specification requirements? YES NO
_____ _____
Comments

(n) Is final external visual inspection performed on 100% of the devices? YES NO
_____ _____
Comments

(o) Are devices stored in a limited access area? YES NO
_____ _____
Comments

(p) Are devices adequately identified to Customer requirements? YES NO
_____ _____
Comments

(q) Are there provisions for lot identification? YES NO
_____ _____
Comments

2.13 FACILITIES AND EQUIPMENT

(a) Is facility adequately lighted? YES NO
_____ _____
Vented? YES NO
_____ _____
Temperature-controlled? YES NO
_____ _____
Dust-controlled? YES NO
_____ _____
Comments

(b) Is good housekeeping being practised? YES NO
_____ _____
Comments

(c) Are particle counts taken and recorded regularly? YES NO
_____ _____



	YES	NO
(d) Are the following operations performed in a 100 count environment without moving the devices to an environment with a high contamination level?		
(1) Final assembly	___	___
(2) Internal visual inspection	___	___
(3) Cleaning	___	___
(4) Sealing	___	___
(e) How often are air filters checked and changed?		
(f) How often is the contamination level of the 10 000 count environment checked?		
(g) How often is the contamination level of the 100 count environment checked?		
(h) Is a log kept which shows when contamination levels are checked?	___	___
(i) Is authority granted to cease production when contamination level is exceeded?	___	___
(j) Personnel in 100 count environment.		
(1) What deviations from regulations and/or requirements related to this environment were noted with regard to:-		
(a) Gowns and/or smocks and trousers		
(b) Caps		
(c) Overshoes		
(d) Finger cots		
(2) Was any lint-producing material (wool, knitted garments, etc.) noticed under protective clothing?	___	___



- | | YES | NO |
|--|------------|------------|
| (k) Are components and tools cleaned according to written procedures?
Are these procedures based on probable contaminants? | ___
___ | ___
___ |
| (l) Are clean room procedures and discipline specified in respect of clothing, access, food consumption, allowable materials, cosmetics, etc.? | ___ | ___ |
| (m) Are temporary storage space and products finished in the area suitably protected to maintain cleanliness level? | ___ | ___ |

2.14 PRESERVATION, PACKING AND SHIPPING

- | | | |
|---|-----|-----|
| (a) Are there adequate written procedures for control of shipping?
Comments | ___ | ___ |
| (b) Are materials designated for shipment properly identified, handled and protected?
Comments | ___ | ___ |
| (c) Do copies of Customer's purchase order and evidence of inspection acceptance accompany materials from end of final test up to the time of shipment?
Comments | ___ | ___ |
| (d) Do Q.A. personnel perform audits of all outgoing lots?
Comments | ___ | ___ |
| (e) Do shipping documents reflect inspection status or evidence of inspection, identification and similar shipping requirements?
Comments | ___ | ___ |
| (f) Does Manufacturer verify conformity of devices and invoices with purchase order?
Comments | ___ | ___ |



	YES	NO
(g) Does Manufacturer implement special packaging methods for hi-rel devices?	---	---
If so, which of following methods is used?		
- Individual packages	---	---
- Mechanical protection	---	---
- Environmental protection	---	---
- Special warning labels	---	---
(h) Is shipping method designed to allow official inspection by Customs without actual removal of protective material?	---	---
Comments		
(i) Do instructions prohibit the use of substandard packaging methods for shipment of hi-rel devices?	---	---



2.15 SUMMARY OF INSPECTION RESULTS

Indicate inspection results per manufacturing and testing area, whereby:

- V = Adequate.
- O = Insufficient or non-adequate.
- = Not checked or not applicable.

	1	2	3	4	5	6	7
--	---	---	---	---	---	---	---

Environmental conditions:

- Cleanliness
- Temperature control
- Humidity control
- Occupancy

Procedures available:

- Travellers
- Calibration
- Segregation of rejects
- Inspection evidence

Area No.

- 1 =
- 2 =
- 3 =
- 4 =
- 5 =
- 6 =
- 7 =



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2.16 GENERAL OBSERVATIONS (Not to exceed 2 pages)