



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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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:-

	<u>Name</u>	<u>Function</u>	<u>Tlph. Ext.</u>
1.			
2.			
3.			
4.			
5.			

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(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?



(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)? YES NO

Comments

(d) Are areas of responsibility within the Q.A. group clearly defined? YES NO

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? YES NO

Which?

(f) Is there a periodic and comprehensive quality data reporting system which covers all operational phases? YES NO

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? YES NO

Is such document kept updated? YES NO

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 RELIABILITY

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 <u>CONTROL OF INCOMING MATERIALS</u> (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	___ ___	___ ___



	YES	NO
(n) Are storage containers, racks, bins, etc. adequate for type of material stored? Comments	—	—
(o) Is lot traceability maintained? Comments	—	—
(p) Is "first in/first out" method applied?	—	—
2.10 <u>IN-PROCESS INSPECTIONS AND TESTS</u>		
(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 <u>specifications</u> ? Do specifications show <u>current</u> revision status? Comments	— —	— —
(e) Does Q.A. have written in-process procedures to control acceptance of products? Comments	—	—
(f) Does the manufacturer test for early failures as part of in-process controls?	—	—



	YES	NO
(g) Does the manufacturer maintain and document standard screening tests as part of their own in-process controls?	—	—
(h) Does the manufacturer review the in-process control test results against the screening tests requirements defined in the relevant Generic Specification?	—	—
(i) Is type and quantity of available inspection equipment adequate for type of work being accomplished?	—	—
Comments		
(j) Are documentation and instruments used by inspectors subject to calibration control?	—	—
Is calibration evident and up-to-date?	—	—
Comments		
(k) Is there a specific material review procedure?	—	—
Comments		
(l) 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		
(m) Are requests for corrective action issued in writing?	—	—
Are such requests answered?	—	—
Does corrective action ensue?	—	—
Comments		
(n) 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		



	YES	NO
(o) Is lot identification maintained throughout processing? Comments	—	—
(p) Are there documents describing in-process manufacturing procedures and controls? Comments	—	—
(q) Are there documents describing in-process inspections? Do inspectors know how and when to use them? Comments	— —	— —
(r) Are there specific standards for handling, cleanliness and care of materials, parts and equipment? Comments	—	—
(s) Are calibrations evidenced and up-to-date?	—	—
(t) Has Q.A. authority to stop production flow in case of out-of-control conditions? Is a written material review procedure in use? Comments	— —	— —
(u) Are records maintained of training and competence of operators for welding, soldering, radiography, radiflo and plating? Comments	—	—
(v) 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?	—	—
---	---	---



	YES	NO
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		
(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		



	YES	NO
(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		
(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		



	YES	NO
(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?		
(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		

	YES	NO
(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		
(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		



	YES	NO
(i) Are statistical controls of device parameter distribution maintained?	___	___
Are they reported to Q.A. or Reliability?	___	___
Comments		
(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		



	YES	NO
(m) Is test equipment adequate for fulfilment of specification requirements? Comments	___	___
(n) Is final external visual inspection performed on 100% of the devices? Comments	___	___
(o) Are devices stored in a limited access area? Comments	___	___
(p) Are devices adequately identified to Customer requirements? Comments	___	___
(q) Are there provisions for lot identification? Comments	___	___
2.13 <u>FACILITIES AND EQUIPMENT</u>		
(a) Is facility adequately lighted? Ventilated? Temperature-controlled? Dust-controlled? Comments	___ ___ ___ ___	___ ___ ___ ___
(b) Is good housekeeping being practised? Comments	___	___
(c) Are particle counts taken and recorded regularly?	___	___
(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	___	___



	YES	NO
(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?	___	___
(k) Are components and tools cleaned according to written procedures?	___	___
Are these procedures based on probable contaminants?	___	___



- | | YES | NO |
|--|-----|-----|
| (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 =

 The logo for ESCC (European Safety Council) features the letters 'ESCC' in a bold, black, sans-serif font. To the left of the letters is a stylized graphic consisting of several overlapping, curved shapes that resemble a globe or a series of hills, rendered in a dark, textured style.	ESA/SCC Basic Specification No. 2023600		PAGE 30 ISSUE 1
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2.16 GENERAL OBSERVATIONS (Not to exceed 2 pages)