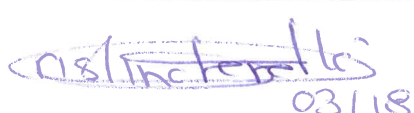
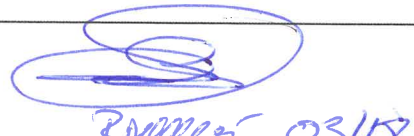


MANAGEMENT SYSTEM MANUAL

QUALITY & ENVIRONMENTAL



Realized	Approved
 03/18	 03/18

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1 GENERAL CABLE PRESENTATION

1.1 GENERAL CABLE

Grupo General Cable is a manufacturer of cables and innovative solutions with over 170 years of experience. With more than 11,000 employees and a turnover which amounts to \$4bn, it is one of the world's leading cable-producing companies.

The company serves its customers through a global network of 38 factories in its main business regions and has sales representatives and distribution centres worldwide. It is devoted to the manufacture of aluminium, copper and optical fibre cables of the highest quality, and to offering systems solutions for the energy and construction sectors, industry, special applications and communications. It has a broad range of products to meet the requirements of numerous applications.

General Cable is a company characterized by always offering the highest quality cables and the best customer service. The company allocates substantial resources to research and development (RDI) within the sector, continuously creating new cable designs and innovative materials, in addition to perfecting the manufacturing systems. This places General Cable in a position of technological leadership within the sector, allowing it to be a pioneer in the introduction of solutions to meet new market demands.

Sustainability is another of the fundamental premises of General Cable, a company which has been actively committed to protecting the environment for years. In this respect, the company shows maximum respect for the natural environment and for the communities where it carries out its activities. It was the first cable manufacturer to obtain certification of its Environmental Management System, in accordance with standard ISO 14001, and it applies fully ecological management to all the phases of its production processes.

General Cable is also a company with strong corporate social responsibility, accepting its commitment on contributing to an improvement in the quality of life of society, and promoting the values of respect between people and collaboration with the social organizations of the locations where it is present. The company moreover provides a service of the highest quality, endorsed by standard ISO 9001, giving added value to its customers and implementing a policy of continuous improvement in order to achieve excellence in its activity.

1.2 GENERAL CABLE EUROPE

General Cable Europe is the base of General Cable's operations in Europe, its headquarters being in the city of Barcelona, Spain.

The first step in the history of what is now General Cable Europe was taken in 1921, with the establishment of Roqué, the group's oldest company.






Grupo General Cable became established in Spain at the end of the 1950s, a period marked by the purchase of the company Fil in 1957. Subsequently, the company acquired the Spanish company Plásmica (1965), and in the 1970s founded, together with Telefónica, Cables de Comunicaciones to manufacture copper telephone cables.

Grupo Español General Cable was created in 1988 as a result of the merger of big national manufacturers, bringing together the companies General Cable, Saenger, Plásmica, Cables de Comunicaciones, Roqué and Navarro. The year 2000, with the acquisition of the CelCat factory in Portugal, gave rise to General Cable Europe, a group which took over responsibility for all of General Cable Corporation's activities in Europe, South America, the Middle East and Africa. With the aim of increasing the presence in Europe and expanding the product range, Grupo General Cable Sistemas, S.A. – the head of General Cable Europe - acquired the manufacturing units of SILEC CABLE from the French company SAGEM (December, 2005), ECN in Spain (August, 2006), NSW in Germany (April, 2007) and ENICAB in Algeria (May, 2008).

At present, General Cable Europe is the undisputed leader in the European cables market with a gross annual production of 250,000 t of cable. It moreover has production facilities with a total surface area of 1.6 million square metres, and employs almost 3,000 people.

General Cable Europe has six production plants distributed around Europe, in which it concentrates the general shipping warehouses, the technical RDI departments and the technical product design offices.

1.3 PRODUCTION CENTERS GRUPO GENERAL CABLE SISTEMAS

Abrera	Manlleu	Montcada
		
<p>Occupies a surface area of 195,000 square metres. Produce low voltages cables, copper conductors. In Abrera factory is located the central warehouse</p>	<p>•The R&D and production technical departments are located in these facilities with a surface area of 107,000 square metres. Produce energy cables, high, medium and low voltage, instrumentation and control cables, special cables: nuclear, offshore, ships,...</p>	<p>•Occupies a surface area of 36,000 square metres. Produce insulated cables for transport and distribution power in low voltage</p>

1.4 MARKETS AND PRODUCTS

General Cable places all its strength at the service of its customers' objectives. With one of the most extensive catalogues of cables and related products, and with proven experience in areas such as distribution and logistics, sales, technical assistance and customer service, our professionals offer customers a unique combination of technologies and services, so that companies which are both big and small, local or with a desire to compete and to grow internationally, can find their best partner in General Cable. Our secret is simply the extensive range of resources that we place at their service.

General Cable's portfolio of customers includes companies from the commercial and industrial sectors, electricity and telecommunications companies, original equipment manufacturers, companies from the military industry and the public sector, retail distributors and electricity and communication suppliers.



CONSTRUCTION

In this range, General Cable has an extensive catalogue of cables for the construction sector, of great use on all kinds of building works and projects. It moreover has fire-resistant, fire-retardant and flame-retardant cables, which comply with the strictest international regulations. These cables do not include halogens in their composition and present a low emission of heat during combustion. They do not emit opaque smoke or toxic gases, being especially useful in buildings used by the public, such as shopping centres, hospitals, stations, libraries, etc. It also offers a series of safety cables which allow the electricity service to be maintained during a fire, thus making it possible for the alarm, signalling and evacuation systems to operate.

UTILITIES

General Cable supplies solutions for energy generation, transport and distribution. Its product range includes extra high voltage systems up to 500kV, high, medium and low voltage cables, for both buried and overhead use. General Cable provides a complete service in high and extra high voltage: from the project design and the supply of cables and accessories, to the installation, testing, maintenance and guarantee of the installation. The company also offers submarine cabling systems for high and medium voltage projects.

INDUSTRY

General Cable offers the industrial sectors different classes of cables for specific applications. It likewise has instrumentation and control cables with models suitable for standard use and for customized specific uses. The range includes low voltage cables for various sectors: wind turbines for the wind power industry, photovoltaic energy, the petrochemical industry, oil rigs, nuclear power stations, mines, ships, railways, airports, motorways, ports, etc.

COMMUNICATIONS

General Cable has both copper and optical fibre telecommunications systems, and data transmission systems. The latter are very useful in numerous applications within the modern information society. General Cable moreover offers systems and installation of submarine telecommunications cables, with and without repeaters, for long-distance links.

Please visit our website for further information:



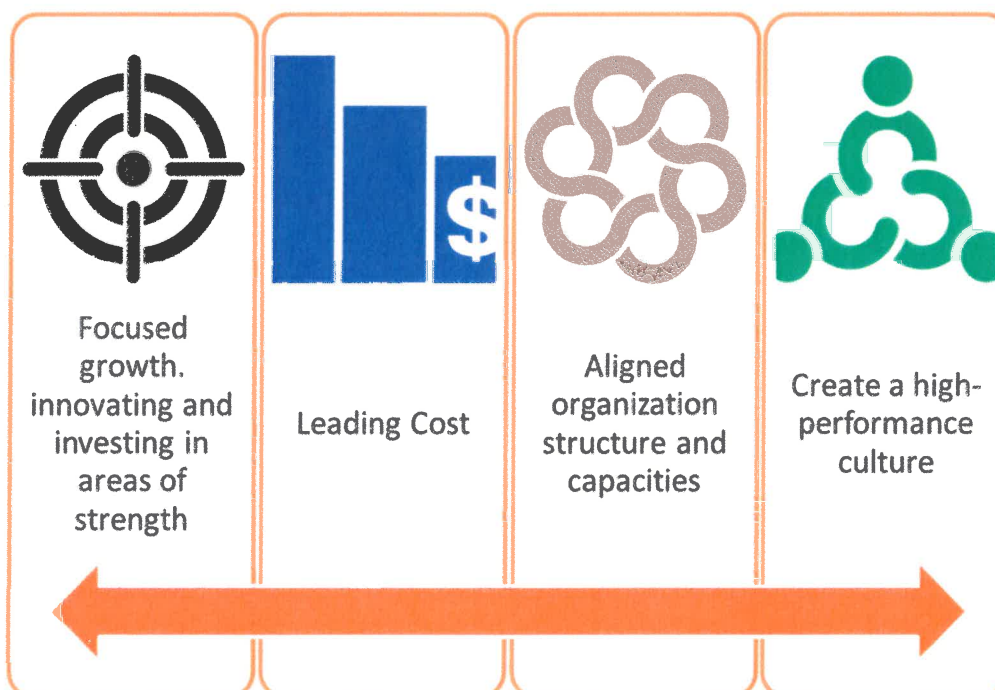
2 VISION, STRATEGY AND VALUES

2.1 OUR STRATEGY

Our vision is to be the best cables company in the industry, to focus inexorably on the customer and to innovate in the public services, communications, industry and construction markets.

Our objective is to work together to supply energy and connect the lives of people, so that society can prosper and progress. We do this in a reliable and safe manner, thanks to the high performance of our cables. We are constantly innovating to meet the changing energy and communications needs of our communities for the present and the future.

If we focus on our strong points to create sounder connections between our team and with our customers, we can and we will be successful. Our vision is to be the best conductor and cable company, in which it is motivating to work. We focus on four pillars to achieve this.



2.2 OUR VALUES

To attain our objectives together, we adopt the fundamental values of taking care, security, integrity, customer service, aspiring to the extraordinary and to teamwork in everything that we do. With our commitment to these values, we defend our philosophy of operating as One Company.



CARING: Respect for every team member is vital; we're in it together. We encourage each other everyday to be our best.



SAFETY :We are vigilant. Together we look out for one another, putting safety at the heart of everything we do.



INTEGRITY: Honesty and transparency hold us together. We are unified by our strong principles.



CUSTOMER DRIVEN We are inquisitive and focused. We always look to better understand our customers, working together to create the best quality products and service.



ASPIRE TO THE EXTRAORDINARY: Together we make the difference. By embracing our expertise and can-do attitude, we inspire and motivate each other to achieve extraordinary results



TEAMWORK Together we will win! Aligning our strengths and capabilities individually and as a company to be the best.

2.3 OUR CODE OF ETHICS

Our Code of Ethics and of Commercial Conduct stresses our values and summarizes the policies and principles that we must follow, at the same time as providing guidance on the expected behaviour which is necessary in order to be able to adopt and demonstrate them. Our commitment is to do business with integrity and responsibility. Our code, based on values, is designed to help us to achieve this. On adopting and demonstrating our values, and the principles within our code, we are Connected as One Company.

3 MANAGEMENT SYSTEMS

General Cable has established, documented and kept up to date the Quality System based on all the requirements of international standard UNE-EN ISO 9001 Quality management systems – Requirements and UNE 73401 Nuclear facilities. Quality assurance.

The Environmental Management System is based on the requirements of Standard UNE-EN ISO 14001:2004, Environmental Management Systems.

3.1 SCOPE OF THE SYSTEM

General Cable's M.S. is introduced in:

The design, development and production of:

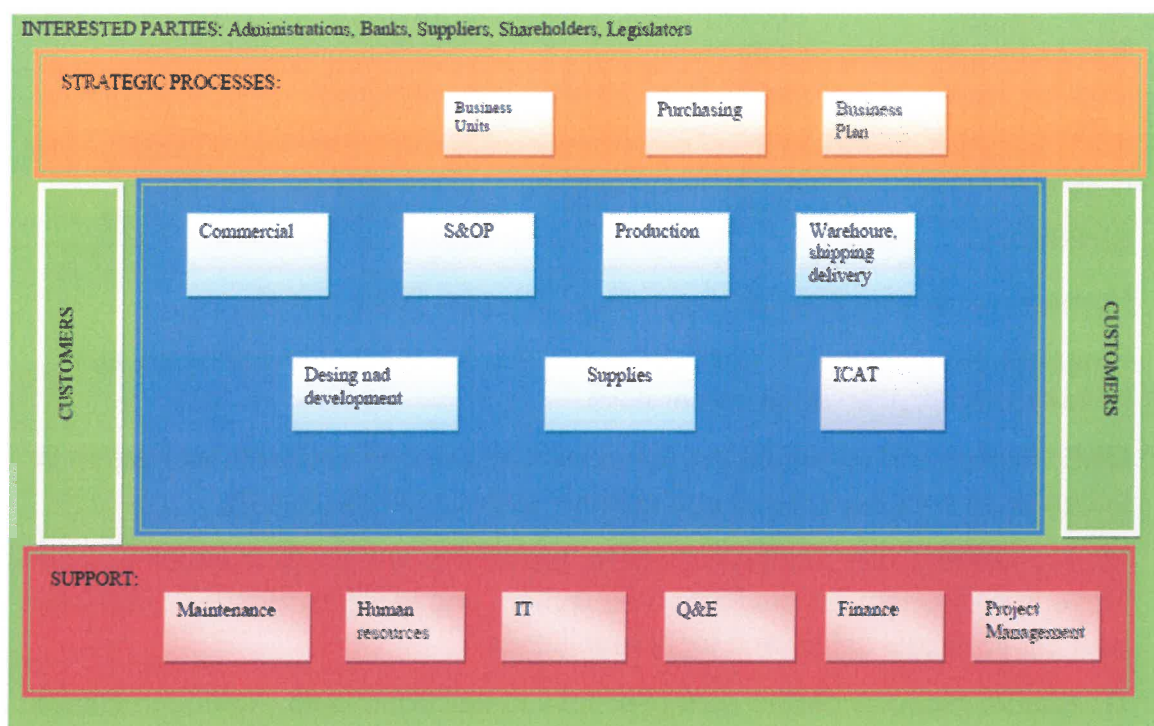
- Insulated cables for the transportation and distribution of high, medium and low voltage energy.
- Insulated cables for instrumentation, command and control.
- Cables for special applications.
- Copper aluminium and aluminium steel wires and conductors.
- Mixtures and granules of thermoplastic and thermostable materials.
- Extruded lead products.

The marketing of:

- The above products.
- Accessories for cables.
- Copper and optical fibre cables and components for telecommunications and data.
- Customer support in the supply.
- The turnkey installation of High Voltage cables.

The design and production of special cables for nuclear power stations in the Manlleu Plant are included in the sphere of UNE 73401 certification.

3.2 PROCESSES FOR MANAGEMENT SYSTEM



The processes necessary for the Management System, the sequence and interaction of the same, are documented on the process sheets.

PROCESOS ESTRATÉGICOS

Business units: Define the product and commercial strategy.

Purchasing: Define the purchasing strategies.

Business plan: Define the company's strategy..

OPERATIONAL PROCESSES

Commercial: Communication with the customer, management of offers and acceptance of orders following review of the requirements related to product and service.

S&OP: Maintain the availability ratio by families and stock level in accordance with the company's policy, managing the production launches to be able to meet the objective for the fulfilment of deliveries, maintaining the defined plant usage objective.

Design and development: Development of new products and compounds up to their exploitation.

Supplies: Acquisition and receipt of raw materials and packing from qualified suppliers, necessary for the manufacture of cables and compounds.

Production: Industrial processing associated with a manufacturing phase of a cable and control of this production.

Warehouse, shipping and delivery. Storage, conservation, preparation of the products, loading and despatch of the products to the customer.

ICAT: Carry out the installation of cables and accessories for the high voltage turnkey projects

SUPPORT

Human resources: Manage the skills of General Cable's staff.

Finance: Management of financial resources: approval of investments, cost review, authorization of customer risks.

Q&E: Design and introduce the company's quality and environment system in accordance with the internal and external standards established.

Maintenance. Carry out the corrective, preventive and predictive maintenance. Make improvements to production equipment and facilities. Ensure compliance with the industrial safety and legal regulations.

IT: Ensure recovery of and control access to electronic data (management and consultation) related to Quality (documentation and records). Confirm the capacity of the computer programs used in the monitoring and measurement activities

Project Management: For orders that are managed as projects, collect customer needs and align resources General Cable to reach their achievement

3.3 MONITORING AND MEASUREMENT OF THE PROCESSES

The performance of each process is reviewed regularly by each process owner, and is subject to analysis and improvement actions. The general consistency is reviewed in the review meetings by the management.

4 LEADERSHIP

The Management maintains its commitment to the Management Systems and their continuous improvement, expressed in its policy, and moreover ensures that the necessary resources are available and allocated in order to meet both customer, and legal and regulatory requirements. Based on this policy, the Management establishes the objectives, which are communicated and monitored.

4.1 CUSTOMER FOCUS

The Management of General Cable transmits instructions for the establishment of systems which ensure that the customer requirements are determined and fulfilled with the aim of increasing customer satisfaction.

The Management of General Cable checks that the customer satisfaction increases using the systems established in the Quality Management System

4.2 POLICY






GENERAL CABLE EUROPE CORPORATE POLICY

Our vision is to be the best performing wire & cable company and a fulfilling place to work. Given the global context, we decided to relentlessly focus on four pillars critical to achieving our strategy: optimize our portfolio by focusing, innovating and investing in strong market positions (in the Utility, Communications, Industrial and Construction markets), drive leading cost, align organizational structure and capabilities, cultivate a high-performance culture with a consistent set of values and behaviors.

Our purpose is to work together to power and connect people's lives, enabling society to flourish and progress. We do this reliably and safely through the high performance of our cables, services and installations. We drive innovation to meet the changing and developing energy and communication needs of our stakeholders today, tomorrow and into the future.

By focusing our objectives on our strengths, building stronger connections between our people and with our customers, we can and will succeed.

Our shared values are the foundation of everything, to achieve our goals together:

-  • **CARING:** Respect for every team member is vital, we're in it together. We encourage each other every day to be our best.
-  • **SAFETY:** We are vigilant. Together we look out for one another, putting safety at the heart of everything we do.
-  • **INTEGRITY:** Honesty and transparency hold us together. We are unified by our strong principles.
-  • **CUSTOMER-DRIVEN:** We are inquisitive and focused. We always look to better understand our customers, working together to create the best products, services and installations.
-  • **ASPIRE TO THE EXTRAORDINARY:** Together we make the difference. By embracing our expertise and can-do attitude, we inspire and motivate each other to achieve extraordinary results.
-  • **TEAMWORK:** Together we will win! We align our strengths and capabilities individually and as a company to be the best.

Our principles are based on:

- Consistently risk-oriented and data-driven decisions
- Preventing any accident, injury, occupational illness, pollution or energy waste
- Promoting health, safety, environmental and energy awareness and social responsibilities
- Respecting all relevant laws, regulations and stakeholder requirements, and the practice of the highest standards of ethical business conduct
- Continuous improvement of our processes, products, services and installations, by applying as much as possible Lean – 6 Sigma principles
- Guarantee of constant quality of our products, services and installations.

For us, this means each employee is called upon to:

- Contribute to improving quality, safety conditions and behaviors, health care, environment protection and energy saving, by accepting personal responsibility and acting in an exemplary role
- Make purposeful decisions, keeping in mind the consequences
- Understand the expectations of customers and stakeholders (internal and external)
- Observe the company rules concerning energy, environment, health & safety and business ethics.

We commit ourselves to provide all the resources we can afford in order to implement that Policy.


Shruti SINGHAL – SVP and President of Europe

21st July 2017

5 ORGANIZATION AND RESPONSIBILITY

The management of General Cable is responsible for establishing the appropriate organization to comply with the requirements of the management systems. This organization is communicated and maintained through the publication of the organization charts.

The responsibilities and the authority are fully accepted by the Operations Director and in particular by the Quality and Environment Director for ISO 9001, ISO 14001 and UNE 73.401.

The Quality Director reports to the Operations Director Iberia. His mission consists of guaranteeing the quality of the products and services delivered to the customers and the correct operation and performance of the Management Systems within the scope of this manual. He acts as the quality interface with the Customers and their representatives.

In terms of product quality, the quality control managers and process Quality Engineers guarantee the quality of the products delivered to the customers and the correct performance of the quality system on the production line. In relation to environmental matters, the environment managers define and implement the strategy and supervise the improvement of performance.

The rest of the responsibilities are defined on the workplace sheets or in the corresponding procedures.

6 REQUIREMENTS OF THE DOCUMENTATION

6.1 DOCUMENTATION

The documentation of the Management Systems includes:

- a) The documented statement of the Policy.
- b) Manual of the management systems.
- c) The process sheets, the documented statement of the objectives and/or targets.
- d) The general procedures.
- e) The specific procedures and the remaining documentation necessary to ensure the effective planning, operation and control of the processes.
- f) The records of the Quality Management System.



6.2 CONTROL OF THE RECORDS

General Cable has established the procedures which specify the systems to control the records. The records are the documents which provide evidence of conformity with the requirements and of the effective operation of the Management Systems.

The procedure for the control of the quality records specifies:

- a) The documents which are quality records.
- b) The management of the quality records, establishing the responsibilities and operations for the collection, identification, access, filing and maintenance.

- c) The time to remain on the files and the disposal of the record once the filing time has ended. The records are at the disposal of the assessment or certification entities and, when established in the contract, are at the disposal of the customer or of their representative for the time agreed upon.
- d) The availability of the records for their revision and/or editing by the customer and the regulatory authorities in accordance with the contract or with the legal and regulatory requirements.

6.3 GENERAL PROCEDURES

REFERENCE	TITLE OF THE PROCEDURE
DE/COM/PRO/GCM/001-001	General Procedure to carry out the revision by the management of the Management Systems
DE/COM/PRO/RHH/003-001	Procedure to control the organization charts
CO/SGC/PRO/CAL/004-001	Procedure for the preparation of offers and revision of orders
CO/SGC/PRO/CAL/004-002	Procedure for the modification of orders
DE/SGC/PRO/GET/005-001	Procedure for the planning and the control of the design and development
DE/SGC/PRO/GET/005-003	Procedure for the control of the use of the cable design
DE/COM/PRO/GCM/006-001	Procedure to code the documentation of internal origin for the management systems
DE/SGC/PRO/GAC/006-002	Procedure for the control of the documentation of external origin
DE/COM/PRO/GCM/006-003	Procedure to control the documentation of internal origin for the management system
UP/SGC/PRO/GAC/007-001	Procedure for the assessment of suppliers and management of orders
DE/SGC/PRO/CMP/007-001	Procedure for the assessment of suppliers
DE/SGC/PRO/GAC/007-002	Supplier assessment questionnaire
UP/SGC/PRO/EXT/007-001	Procedure Management of finish cables Orders
DE/SGC/PRO/TRA/007-004	Procedure for assessment of transport services
DE/SGC/PRO/GAC/007-004	Procedure for the management of bobbins and reels of finished cable
UP/SGC/PRO/GCM/007-005	Procedure to ensure the quality of the processes subcontracted
UP/SGC/PRO/GAC/008-001	Procedure for the receipt and inspection of products of external origin
CO/SGC/PRO/ICA/009-001	Procedure for carrying out turnkey installations

REFERENCE	TITLE OF THE PROCEDURE
CO/SGC/PRO/CAL/009-001	Procedure for the management of delivery periods
CO/SGC/PRO/CAL/009-002	Procedure for programming to factories
UP/SGC/PRO/GAC/009-001	Procedure for launching manufacture
CO/SGC/PRO/CAL/009-004	Procedure for preparation, delivery note preparation and shipping of finished product
UP/SGC/PRO/GAC/010-001	General Procedure to control inspection activities
DE/COM/PRO/GAC/011-001	Calibration Procedure
DE/COM/PRO/INF/011-001	Procedure for the elaboration and validation of computer applications and transfer from the development computer to the exploitation one
UP/SGC/PRO/GAC/012-001	General procedure for product identification and traceability
UP/SGC/PRO/GAC/012-002	Procedure for the traceability in the manufacture of cables
CO/SGC/PRO/CAL/013-003	Procedure for the management of customer complains
UP/COM/PRO/GAC/013-001	Procedure for the treatment of Non-conformities
CO/SGC/PRO/CAL/013-005	Procedure for emergency action to be carried out when notification of a failure is received which requires the withdrawal of the product
CO/SGC/PRO/ICA/015-001	Procedure for the handling, storage, packing, conservation and delivery of finished products
UP/SGC/PRO/GAC/015-001	Procedure for handling, storage, packing and conservation of work in process and finished products
CO/SGC/PRO/CAL/015-002	Procedure for periodic control of the state of the products stored
DE/COM/PRO/GAC/016-001	General Procedure for the Management of the Quality Records
DE/COM/PRO/GAC/017-001	Procedure for the performance of internal audits
DE/COM/PRO/CAL/018-001	Personal training Procedure
DE/COM/PRO/GCM/018-002	General Procedure for the qualification of the personnel auditing the quality and environmental systems
DE/COM/PRO/RHH/018-002	Procedure for the definition of the work position
DE/SGC/PRO/GAC/019-001	Procedure for the management of tests on installed cables
CO/SGC/PRO/CAL/019-001	Procedure for technical assistance, customer service and satisfaction

REFERENCE	TITLE OF THE PROCEDURE
UP/SGM/PRO/GCM/040-001	EMS general procedure for waste management and despatch
UP/SGM/PRO/GCM/041-001	General procedure for the management of waters
UP/SGM/PRO/GCM/042-001	General procedure for the management of energy
UP/SGM/PRO/GCM/045-001	Loading and unloading procedure
UP/SGM/PRO/GCM/047-002	General EMS procedure for the control and the periodic assessment of the legislative compliance and the environmental regulation
UP/SGM/PRO/GCM/048-001	Procedure for the identification of the environmental aspects
UP/SGM/PRO/GCM/048-002	Identification of the environmental aspects in projects for installations and implementation of projects
DE/SGM/PRO/GCM/050-001	Communication procedure

7 PERFORMANCE ASSESSMENT AND IMPROVEMENT

7.1 CUSTOMER SATISFACTION

The Commercial Directors are responsible for the relations between Grupo General Cable Sistemas S.L. and its customers, from the expression of the needs to the closing of the contract or project.

Customer satisfaction is measured by means of the customer satisfaction survey and in customer audits.

The satisfaction of other interested parties is obtained in meetings with these parties, maintaining records of complaints, through inspections and controls...

7.2 ANALYSIS, ASSESSMENT AND IMPROVEMENT

Periodic assessments and analyses are performed of the data related to the results of the tests on the products, the non-conformities, the results of the objectives and targets of the processes, the performance of the suppliers, the effectiveness of the actions and of the quality system. This analysis gives rise to the detection of the improvement points with which the continuous improvement of processes and systems is maintained.

7.3 ENVIRONMENTAL PERFORMANCE ANALYSIS AND ASSESSMENT

The main characteristics of the operations which may have a significant environmental impact are assessed regularly, are controlled, and the appropriate measures are taken. The assessment of the performance of the legal requirements is reviewed periodically.

7.4 INTERNAL AUDITS

Each year, the QE Manager prepares a programme of internal QE audits. The audits are performed by qualified internal auditors or by an external organization.