CORINTH PIPEWORKS
PIPE INDUSTRY S.A.

- **ORGANIZATION AND SEQUENCE OF ALL QUALITY CONTROL PROCEDURES;**

We have attached herein our Quality Management manual.

We are also attaching herein a list of all our Quality Management System (QMS) procedures demonstrating that all our activities are covered by a robust and well documented management system.

CORINTH PIPEWORKS S.A.

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CORINTH PIPEWORKS
PIPE INDUSTRY S.A.

QUALITY MANAGEMENT MANUAL

CORINTH PIPEWORKS S.A.

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CORINTH PIPEWORKS
PIPE INDUSTRY S.A.

QUALITY MANAGEMENT SYSTEM MANUAL

API Spec Q1 9th Edition

ISO 9001:2015

QMS Manual Rev.12

FOR INFORMATION

	ISSUED	REVIEWED	APPROVED
DATE	19.06.2017	21.06.2017	23.06.2017
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QUALITY MANAGEMENT SYSTEM MANUAL

API Spec Q1 9th ed.

ISO 9001:2015

QMS MANUAL REV. 12

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CORINTH PIPEWORKS S.A.

DOCUMENT MANAGEMENT OF CHANGE

Rev. No	Date	Change Description	Actions Needed	Need for Risk Management*
11	26.06.2015	Revision due to commissioning of new SAWL mill at Thisvi Plant	None, individual changes have been implemented in relevant procedures and work instructions	No
12	19.06.2017	General revision due to the transition to ISO 9001:2015 standard.	None, individual changes have been already implemented in relevant procedures and work instructions	No

** R.M: Risk Management (If "YES," the code number of the risk, as given in Form CPW-B-X-140.0.1, shall be reported)*

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0. COMPANY PROFILE-CONTEXT OF ORGANIZATION

0.1. Who we are

Corinth Pipeworks is a world leading manufacturer of steel pipe and hollow sections to the energy and construction sectors. We are proud to deliver energy to the world.

With over a half century of experience we have worked with major energy companies across the globe on very demanding projects. The steel pipes we have produced the last 15 years can cover more than half the Earth's perimeter. Our client based philosophy rewards us with strong long term relationships that benefit both companies.

We operate a state-of-the-art plant, where we continuously invest in order to provide reliable quality solutions on time. We offer one of the widest product range as well as tailor made solutions to demanding requirements.

We combine our leading edge technology, advanced machinery and equipment with a unique team of experts, eager to respond and find solutions to our customer needs. Our people are there for our customers from the moment they contact us until well after the project has been completed. We are flexible, reliant and deliver on our promises.

We firmly believe that the path to growth and development is through Sustainable Development. Corporate Responsibility is a part of our culture and we have identified six key areas of focus: Corporate Governance, our people, health and safety at workplace, market responsibility, care for the environment and support for the local communities.

We pursue excellence every step of the way. We stand by our commitments, our customers, our employees, our community and all our stakeholders.

0.2. Company History

Corinth Pipeworks S.A. was established in 1969 with the plant facilities in Corinth. As the Mediterranean and Middle East region's principal steel pipe manufacturer and coater, the company has a long record of supplying pipes for oil, gas and water projects around the world.

Through continuous investment in human resources and technology the company has kept pace with developments in the industry and maintains a significant international presence with exports reaching the largest portion of production. Proximity to Greece's busy international seaports puts us within easy reach of oil and gas fields in the Middle East, North and West Africa, the Gulf and the CIS. The same ports readily serve other areas of the world.

Corinth Pipeworks S.A. is part of a large, forward-looking industrial and commercial group in Greece named VIOHALCO. Since July 1998 the company is listed in the Athens Stock Exchange. CPW has purchased a 1.018.564 m^2 of land in Thisvi in the industrial zone of Viotia as the location of the production plant with port facilities in close proximity, which started operation during 2000 and is fully operational since 2002.

0.3. Vision

"To be the pipe producer of choice delivering energy to the world"

Maintaining our dedication to delivering energy to the world, we will continue to grow sustainably, set standards of excellence, refine our quality, invest and further develop our technical knowledge while expanding our capabilities, increasing our efficiencies and adding exceptional value for customers.

We deliver solutions to challenging projects with professional integrity while developing successful business relationships through mutual trust and respect.

Our aim is to provide a fulfilling and rewarding environment for our employees and to serve and support our community while maintaining a solid financial performance.

0.4. Mission

Corinth Pipeworks S.A.mission is to provide value-added/ tailor made steel pipe solutions and hollow sections to the energy and construction industry. Our aim is to be the partner of choice by fulfilling our customers' high

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expectations, gaining trust, offering world class quality products and exceptional customer service in today's highly competitive market.

We go the extra mile, anticipating our clients' needs and developing diverse competitive products based on new technologies and solid technical expertise. With continuous investments, fully committed people and a unique location for serving strategic markets, we are determined to achieve long term sustainable growth that will benefit our customers, our suppliers, our people, our shareholders and our community.

0.5. Our Values

We are RELIABLE:	We keep our word. We deliver on our promises and commitments. We pride ourselves in being a reliable and trusted partner to our clients, a reliable and trusted employer, a solid and trusted part of the community and to generate value for our shareholders.
We act with INTEGRITY:	How we do business is top priority. We responsibly adhere to the highest standards of professional behavior and ethics by being transparent and honest in all our internal and external interactions. We show respect for all individuals and value each one's unique talents.
Passion for QUALITY and EXCELLENCE:	We pursue excellence, ensure quality and safety that adds value to everything we do. We invest in technology and our people to deliver the best quality products and services to our customers.
We are committed to value INNOVATION:	This is what we do every day by creating customized solutions for our customers' most demanding challenges. We continuously seek technological advancement and relentlessly search for better solutions to both small and large concerns.
We focus on CUSTOMER SATISFACTION:	We take care of our customers' needs from the moment they contact us until well after the project is complete. We build strong and lasting relationships, provide unparalleled customer support, constantly monitor new developments, and anticipate our customers' needs by listening carefully to what they say and need. We act fast and decisively to meet their needs as we know that our success is our client's success.

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0.6. Facilities and Products

0.6.1. Steel Pipes & Hollow Sections ERW / HFI (HFW)

Electric Resistance Welding / High Frequency Induction

Two manufacturing lines: 7 5/8'' and 26''

LINE PIPE & CASING PIPES	HOLLOW SECTIONS
26'' line: *OD:* 8 5/8'' – 26" *Wall Thickness:* 4,0 – 25 mm *Grade for line pipe:* up to X80M PSL2 (L555M) *Grade for casing:* H40 and J55 PSL1 *Max. Pipe Length:* 23,2 m Service: Water, Oil and Gas (offshore and sour)	Dimensions (Square profiles): *7 5/8'' line:* 50 x 50mm – 160x160mm *26'' line: 180x180mm* - 500 x 500 mm Dimensions (Rectangular profiles): *7 5/8'' line:* 60x40mm – 200x100mm *26'' line: 220x140mm* - 600 x 400mm Dimensions (Circular profiles): *7 5/8'' line: 2 3/8''- 7 5/8''* *26'' line: 8 5/8'' – 26''* *Wall Thickness:* *7 5/8'' line:* 2,0 – 10,0mm *26'' line:* 5.0 – 20.0mm *Grades:* S235JRH, S275J0H, S355J0H, S275J2H, S355J2H, S355K2H, S275MH, S355MH, S420MH, S460MH *Profile Length:* 6 – 24 m

0.6.2. Steel Pipes SAWH

Helical Submerged Arc Welded pipes - Two step method

LINE PIPE	HOLLOW SECTIONS
OD: 24'' – 100" *Wall Thickness:* 6.35 – 25.4 mm *Grade:* up to X80M PSL2 (L555M) *Max. Pipe Length:* 18 m *Service:* Water, Oil and Gas (offshore and sour)	*OD:* 24''- 100'' *Wall Thickness:* 6.35 – 25.4mm *Grades:* S235JRH, S275J0H, S355J0H, S275J2H, S355J2H, S355K2H, S275MH, S355MH, S420MH, S460MH *Max. Profile Length:* 18 m

0.6.3. Steel Pipes SAWL

Longitudinal Submerged Arc Welded pipes – JCOE method

LINE PIPE & CASING PIPES	HOLLOW SECTIONS
OD: 16'' – 56" *Wall Thickness:* 6.40 – 39.7 mm *Grade:* up to X100M PSL2 (L690M)	*OD:* 16''- 56'' *Wall Thickness:* 6.40 – 39.7mm *Grades:* S235JRH, S275J0H, S355J0H, S275J2H,

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Max. Pipe Length: 18.3 m *Service:* Water, Oil and Gas (offshore and sour)	S355J2H, S355K2H, S275MH, S355MH, S420MH, S460MH *Max. Profile Length:* 18.3 m

0.6.4. Coating and Lining

For pipes manufactured by Corinth Pipeworks S.A. or supplied by customers.

PE or PP Coating 3-Layer Polyethylene (Low, Medium or High Density) or Polypropylene **Single layer FBE Coating** Fusion Bonded Epoxy **Dual layer FBE Coating** Abrasion resistance overlay (ARO), anti-slip layer **Rough Coating** For concrete application **EPOXY Lining** Liquid Epoxy
OD: 4 1/2'' - 48" (1st Coating line) 8 5/8'' - 100" (2nd Coating line) 8 5/8'' - 56" (Lining) *Pipe Length Range:* 8-18 m (1st Coating line) 8-23.2 m (2st Coating line & Lining)

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CORINTH PIPEWORKS S.A.

0.7. Interested parties

Corinth Pipeworks S.A. has identified the interested parties (in general) of its operation and performance as: Customers, Employees, Suppliers, State and institutional/normative bodies, Shareholders and Investors, Local communities, NGOs. The main interested parties referring to Quality Management System could be further specified as: Customers (Clients/End-users), Employees, Suppliers/subcontractors (external providers), Legislative/Institutional Bodies, Certification/Registration bodies, Shareholders and Investors and their quality requirements and communication channels are shown in the following table.

Interested parties	Needs & Expectations	Communication channels Applying to all interested parties: • www.cpw.gr • Annual Financial and Sustainable development Report • Presentations at conferences, fora and institutional bodies • Press releases, announcements, advertisements, articles.
Clients/End-users	• Quality products and services • Projects implemented with reliability/on time product delivery • Policies and procedures ensuring immediate customer service	• Customer satisfaction surveys • Constant contact face-to-face and by phone • Attendance at fairs/exhibitions • Project management department and product certification procedures • Attendance at industry or customer conferences, fora and events • Marketing activities
Employees	• Development and career advancement • Benefits- Insurance coverage • Equal opportunities • Safe working conditions	• Company intranet • On-going communication between the management and Human Resources, via the open door Policy • Briefings via email and announcements on notice boards • Employee appraisals
Suppliers/subcontractors (external providers)	• Objective evaluation • Effective planning by CPW in accordance with lead times by suppliers • Clear specifications • Co-operation regarding market developments	• Procurement department for each category of supplies • Communication with the Accounting office about financial issues • Attendance at trade fairs and events

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		• Briefs about market developments
Legislative/Institutional Bodies	• Compliance with the applicable statutory and regulatory framework	• Involvement in policy- and decision-making (via membership of the Hellenic Federation of enterprises) • Attendance at conferences • Attendance at events organised by public agencies • Participation in government surveys and consultations • Memberships in institutional bodies
Certification/Registration Bodies	• Compliance with standards or scheme requirements	• Memberships/accounts in certification/registration bodies websites • Memberships in research groups (EPRG)
Shareholders/Investors	• Provision of quality products and on time deliveries to customers, in order to achieve economic growth and maintain good corporate reputation • Penetration into new markets (e.g. off shore) • Competitiveness-outward orientation	• Annual General meeting of Shareholders • Investor Relations department • Presentation at Association of institutional investors • Attendance at investor road shows

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0.8. External & internal issues

CPW determines internal & external issues related to corporate mission and its strategic direction and that affect its ability to achieve the intended result(s) of its Quality Management System.

Those issues, are identified, monitored and reviewed under the supervision of Top Management, by the use of analysis tools (where applicable) during strategic planning & review meetings (corporate & plant level), as well as Quality Management System Review meetings.

1. QUALITY MANAGEMENT SYSTEM MANUAL

1.1. General

This document establishes the requirements for the Quality Management System to be developed, implemented, monitored and maintained by CORINTH PIPEWORKS S.A. for the purpose of ensuring that:

- Products produced and services rendered conform to the contract/customer requirements and applicable statutory and regulatory requirements and makes provisions for keeping objective evidence (eg. records) for this,
- The competitiveness of the company is continuously improved through cost control & reduction as well as productivity and efficiency optimisation,
- Objectives, targets and improvement of the system are met.

The Quality Management System is placed among the business model according to which the whole company operates. This model incorporates the totality of operating processes (strategic, operating and supporting) of each department and function. It is based on the principle of continuous improvement, which assures the constant development of company business model, the incorporation of best practices, the simplification of procedures and their automation through the use of an Enterprise Resource Planning System (SAP).

The manual does not contain detailed procedures and instructions or inspection standards. It does however outline the corporate policies of CORINTH PIPEWORKS S.A. and sets the basic rules under which the required procedures shall be developed and maintained, as well as the management structures, which shall be employed to assure product quality and conformity.

This document, whether referenced or not in the contract, applies to all works, including products or services, identified therein. If any inconsistency exists between the contract requirements and this document, the contract document shall prevail.

QMS Manual has been developed in order to fulfill the requirements of both API Q1 and ISO 9001 standards. The structure of the QMS Manual is aligned with the structure of API specification Q1, since last revision of ISO 9001 does not require the issue of a Quality Manual. Appendix I presents the paragraph reference between API Q1 and ISO 9001 requirements.

This QMS Manual has been issued in English. Certain Procedures, and work instructions have been issued in English, Greek or bilingual; however in case of conflict the Greek version prevails. It is divided into sections and sub-sections and it is issued in a loose-leaf format. Each page, with the exception of the cover pages and the table of contents, bears the revision number and date, and the total number of pages of the Manual.

At the end of each subsection or section, there is a reference to applicable company documented procedures. The contents of this QMS Manual are subjected to periodic review and updating to ensure that it continues to be consistent with the applicable standards. All revisions will be recorded in the revision index table.

The QMS Manual of CORINTH PIPEWORKS S.A. is a controlled document and its possession or use is restricted to authorized persons only. Any copy of the QMS Manual to a customer or organization besides CPW is not considered a controlled document.

1.2. Scope

The applicable scope of QMS is "Manufacture and Coating of Line Pipe, Casing, Tubing, and Rolled Hollow Sections."

1.3. Exclusions

Due to the nature of CPW's activities and since CPW does not have any authority or accountability for the design of the product (customer provided), the following paragraphs of the applicable QMS standards have been excluded:

API Q1: § 5.4 "Design and Development", § 5.7.1.2 "Servicing"

ISO 9001: § 8.3 "Design and development of products and services"

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2. NORMATIVE REFERENCES

CPW QMS manual contains provisions and has been developed and issued in accordance to the requirements of the following standards and guides:

API Q1, 9th Edition	"Specification for Quality Management System Requirements for Manufacturing Organizations for the Petroleum and Natural Gas Industry"
ISO 9001:2015	"Quality Management Systems – Requirements"
ISO 9000:2015	"Quality Management Systems – Fundamentals and Vocabulary"

3. TERMS, DEFINITIONS, ABBREVIATIONS

3.1. Terms and definitions

For the purposes of this Manual, the terms and definitions given in ISO 9000 and API Q1, apply, as well as the following:

TERM	DEFINITION
Acceptance Criteria	Specified limits of acceptability applied to process or product characteristics.
Acceptance inspection	Demonstration through monitoring or measurement that the product complies with specified requirements.
Audit	A systematic and, wherever possible, independent examination to determine whether activities and relate results conform to planned arrangements and whether these arrangements are implemented effectively and are suitable to achieve the CPW s policy and objectives.
Calibration	The procedure of comparison and adjustment to a standard (master) of known accuracy.
Coating	When used in the Manual means external polyolefin coating (3-layer PE or PP), external FBE, dual FBE, or internal coating (liquid epoxy).
Coil Number	The sequential number assigned by Corinth Pipeworks to each coil from the same thickness and grade of material.
Conditions Adverse to Quality	An all-inclusive term used in reference to any of the following: repetitive deficiencies, defective items, and non-conformances.
Conformance	Compliance with specified requirements.
Context of the organization	Combination of internal and external issues that can have an effect on an organization's approach to developing and achieving its objectives
Customer	Person or organization that could or does receive a product or a service that is intended for or required by this person or organization
Design	A detailed plan for a product.
Design acceptance criteria (DAC)	Defined limits places on characteristics of materials, products or services established by the organization, customer, and/or applicable specification to conformity to the product design.
Documentation	Recorded information.

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TERM	DEFINITION
Field nonconformity	Product nonconformity that is detected after delivery or use has started.
First article	Representative sample of product to verify that applied requirements are satisfied.
Heat	Steel material originating from one final melt.
Hold-point	An inspection point over which, work may not proceed without the signoff of the designated authority.
Hollow section	When used in this Manual means round, square, or rectangular profile.
Inspection and Test Plan (ITP)	A document coning information about the quality schedule of a specific customer, order or project, such as type and frequency of tests, acceptance criteria, hold-points, etc.
Instruction	See Procedure.
Interested party	Person or organization that can affect, be affected by, or perceive itself to be affected by a decision or activity
Key Performance Indicator (KPI)	Measure used to gauge or compare performance.
Legal Requirement	Imposed statutory or regulatory obligation.
Lot	The lot size as defined by the API 5 Spec or any other applicable standard form which samples are taken for the performance of any product analysis, inspection, or tests.
Management	Person or group of people, as defined by the organization, who directs and controls all or part of a facility, location, department, or other function; Has the fiscal responsibility for the organization, and is accountable for ensuring compliance with legal and other applicable requirements.
Manual	This QMS Manual.
Manufacturing acceptance criteria (MAC)	Defined limits placed on characteristics of materials, products and services established by the organization to achieve conformity to the manufacturing or service requirements.
Manufacturing Procedure Specification (MPS)	A document containing information about the manufacturing steps that will be followed for the execution of the production for a specific customer, order or project.
Non- conformity	Non-fulfilment of a requirement
Objective Evidence	Facts, which are observe and documented.
Outsource	Make an arrangement where an external organization performs part of an organization's function or process
Pipe Number	A unique identification number for pipe(s) produced under the same sub number of Process sheet number. It includes Production Serial Number and Pipe Serial Number.
Pipe	When used in this Manual means either casing, line or construction pipe.

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TERM	DEFINITION
Preventive maintenance	Planned action to minimize the likelihood of equipment failure or unscheduled interruptions.
Procedure	Organization's documented method for performing an activity under controlled conditions.
Process Sheet (PS)	Master document for controlling operations, special processes, examinations, tests, hold-points, inspections and acceptance criteria.
Product(s)	When used in this Manual, it may refer to bare pipe(s) or hollow sections.
Production Serial Number	The sequential serial number assigned to each product (pipe) manufactured from the same thickness and grade of material.
Provider (supplier)	Organization that provides a product or a service. *For the purpose of the current or any other document within CPW activities an external provider stands for an organization outside CPW that provides products, services or processes.*
Qualified Personnel	Individuals with characteristics or abilities gained through education, training, experience, or examination, as measured against CPW/user/API or other applicable established requirements.
Quality Control	Any inspection, test, or examination performed to ensure that materials products or services conform to specified requirements.
Repair	The process of restoring a non-conformance, (e.g. grinding, welding for welded pipe, or patching etc for coating) to a condition that satisfies API, CPW, or any other applicable standard requirement.
Requirement	Need or expectation that is stated, generally implied or obligatory
Rework	The process by which an item is made to conform to original requirements by repeating operations completion or correction.
Risk	Situation or circumstance that has both a likelihood of occurring and a potential negative consequence.
Service	Performance of an activity by one function or organization for another.
Servicing	Product maintenance, adjustment, repair, and/or on site installation when installation is required by applicable product specifications.
Standard	A prescribed set of conditions and requirements in the form of published documents, such as an API Spec.
Survey	A documented investigation, including examination of objective evidence to determine that a supplier can and will provide conforming products and/or services.
Top management	Person or group of people who directs and controls an organization at the highest level
Traceability	The ability to determine the product history through markings and records.
Verification	The process of determining through markings and records conformance to specified requirements.

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TERM	DEFINITION
Visual Examination	Examination of parts and equipment for visible defects in material and workmanship.

3.2. Abbreviations

TERM	EXPLANATION
API	American Petroleum Institute
API Q1	API Q1, 9th Edition
API 5 SPEC	The applicable API 5 Series Specification
ARO	Abrasion Resistant Overlay
BSI	British Standard Institute
CAR	Corrective Action Request
CPW	Corinth Pipeworks S.A.
DAC	Design Acceptance Criteria
EU	European Union
FBE	Fusion Bonded Epoxy
HSE	Health, Safety & Environment
ISO	International Organization for Standardization
ISO 9000	ISO 9000:2015
ISO 9001	ISO 9001:2015
ITP	Inspection and Test Plan
KPI	Key Performance Indicator
MAC	Manufacturing Acceptance Criteria
MOC	Management of Change
MPS	Manufacturing Procedure Specification
NCR	Non-Conformance Report
NDE	Non Destructive Examination
PCP	Process Control Plan
PE	Polyethylene coating
PP	Polypropylene coating
PSN	Process Sheet Number
QAP	Quality Activity Plan
QMS	Quality Management System
PQP	Product Quality Plan
WI	Work Instruction

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CORINTH PIPEWORKS S.A.

4. QUALITY MANAGEMENT

4.1. Quality Management System

4.1.1. General

Corinth Pipeworks S.A. has established a Quality Management System to meet the requirements of API Q1 specification and ISO 9001. QMS includes monitoring and measuring mechanisms for its effectiveness and improvement, in accordance with these standards. It is an organization-wide operating work structure, implemented and documented through written procedures and maintained in order to coordinate the available resources towards fulfillment of customer and other interested parties requirements.

In particular, the management system basic processes for quality are interrelated schematically in Appendix 2.

4.1.2. Quality Policy

CPW implements a defined and documented quality policy which is approved by the Top Management and defines its commitment to quality, compliance with requirements and continuous improvement of the effectiveness of the company's QMS. Quality Policy is aligned with the Business strategy, is communicated appropriately to all company's personnel, is the basis of the development of the quality objectives and is available to all interested parties through CPW site. This policy is annually reviewed, as a minimum, and revised if required (Management Review process), to ensure that it is appropriate to the organization and distributed according to an established documented procedure.

Relevant Procedure:

CPW-B-X-055.0 *Quality Policy*

4.1.3. Quality Objectives

CPW has established a documented procedure, which is approved by the Top Management, to ensure that measurable quality objectives, including those needed to meet product and interested parties' requirements, are established within the organization and are consistent to the company's quality policy and business strategy.

Relevant Procedure:

CPW-B-X-110.0 *Quality Objectives / Continuous Improvement*

4.1.4. Planning

Top Management ensures that:

- Criteria and methods needed for the operation and control of all quality management system processes are determined, managed, and effective.
- Planning of the company's QMS is carried out in order to meet products and interested parties' requirements, as well as, meeting quality objectives.

4.1.5. Communication

- ***Internal***

Top management ensures that appropriate communication processes are established within the organization and that the effectiveness of the QMS is communicated within all functions and levels of the company.

CPW has established processes to ensure that:

- Importance of meeting customer, legal, and other applicable requirements is communicated at relevant functions within the organization
- Results of analysis of data are communicated at relevant levels and functions within the organization.

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Relevant Procedures:

CPW-B-X-115.0	*Internal Communication*
CPW-B-X-120.0	*Management Review*

- ***External***

CPW implements documented procedures for communicating with external interested parties, including customers, to ensure requirements are understood throughout contract execution and product realization. These procedures address:

- Order inquires, contracts, or other handling and amendments
- Provision of product information, including field non conformities,
- Feedback and customer complaints and
- Information required by product quality plans and subsequent changes on them.

Relevant Procedures:

CPW-B-X-200.0	*Order Management*
CPW-B-X-135.0	*Addressing Nonconforming Product*
CPW-T-X-110.0	*Product Quality Plan (MPS, ITP)*
CPW-B-X-300.0	*Order Execution Management And External Communication*

4.2. Management Responsibility

4.2.1. General

Top management provides the essential resources for the establishment, implementation and improvement of the company's QMS. Evidence of commitment to the development, the improvement and the implementation of the QMS, are provided by:

- Establishing quality objectives, including key performance indicators,
- Conducting management reviews

Relevant Procedures:

CPW-B-X-110.0	*Quality Objectives / Continuous Improvement*
CPW-B-X-120.0	*Management Review*

4.2.2. Responsibility and Authority

CPW has developed documented procedures to define and communicate, within the company, responsibilities and accountabilities. The organizational structure and lines of communication are described in a relative documented procedure which includes company's organization chart.

Relevant Procedure:

CPW-B-X-050.0	*Organizational Structure*

- ***Delegation Policy***

Personnel with assigned responsibilities have both the authority and responsibility to perform their tasks in accordance with the QMS. Delegation of duties may be made to those who report to them, provided they are qualified to do so, however the responsibility for the process remains to the person who assigned the duties.

Managers and Supervisors may perform the duties of and assume the responsibilities of those who report to them, provided they are qualified to do so.

Due to the size of CPW members of personnel may be assigned more than one position.

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- ***Responsibilities***

CPW has established written job descriptions to clarify and communicate all duties and authorities required to effectively implement and maintain the QMS. Such job descriptions are issued according to documented procedure. All company personnel are given the authority, responsibility and organizational freedom to perform the functions described in this Manual and other documents of the QMS.

Special attention has been given to the following functions:

- Initiation of actions to prevent occurrence of any non-conformities relating to product, process and system requirements.
- Identification and recording of problems related to product, process and system issues.
- Initiation, recommendation and solutions provision through designated channels.
- Verification of solutions implementation.
- Controlling further processing, delivery or installation of non-conforming product until the deficiency or unsatisfactory condition has been corrected.

4.2.3. Management Representative

Top Management has authorized the Quality Director to assign the necessary roles and responsibilities and determine the necessary course of actions in order the Quality Management System to be established and implemented.

More specifically, the company has assigned the Quality Director for:

a) Ensuring that processes for the company's QMS to cover quality requirements are established, implemented and maintained,

b) Reporting to Top Management on the quality performance of the system and any needed improvements.

c) Ensuring initiation of action(s) to minimize the likelihood of the occurrence of nonconformities

On top of that, Quality Director has the duty to promote the quality culture to all levels of CPW, namely:

- Adhering to customer needs expectations and requirements.
- Awareness of roles and responsibilities in achieving conformance with the QMS and potential consequences of departure from established procedures.
- The impact of their work activities on quality requirements and the relevant benefits attained through improved personal performance.

For the tasks, responsibilities and role of Quality Director refer to relevant documented procedure.

Relevant Procedure:

CPW-B-X-050.0 *Organizational Structure*

4.3. Organization Capability

4.3.1. Provision of Resources

CPW provides the resources needed to implement, maintain and continually improve the effectiveness of the QMS.

Relevant Procedure:

CPW-B-X-055.0 *Quality Policy*

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4.3.2. Human Resources

- ***General***

CPW maintains a documented procedures to define personnel competency and identify necessary training for personnel who manage, perform and verify activities having an effect on the integrity of the QMS.

- ***Personnel Competence***

CPW has established a documented procedure to determine the necessary competence based on the appropriate education, training, skills, and experience. Records of evidence of personnel competency are maintained.

Relevant Procedure:

CPW-B-X-620.0 *Evaluation of Personnel*

- ***Training and Awareness***

CPW organizes training programs, of defined frequency and content, to meet employees' needs and assure their long-term competence to fulfill their assigned tasks. Every employee is trained in matters covered by the QMS, including customer-specified training, along with good practices of work. Aim of these programs is to make all company's employees aware of their roles and responsibilities in achieving conformance with the corporate policy and the requirements of the QMS.

Evidence of the evaluation of the effectiveness of training sessions taken towards the achievement of the required competency are also defined, recorded and maintained

Relevant Procedure:

CPW-T-HSJCL-105.0 *Training of Personnel*

4.3.3. Work Environment

CPW provides, manages and maintains the work environment, needed to achieve conformity to product requirements. CPW facilities include:

- Properly maintained buildings, work place and relevant utilities, that are new, and comply with National/ European legislation,
- Properly maintained process equipment,
- Supporting services (such as transport, communication or information systems),
- Provision of safe work place for health and safety of employees and all parties involved.

4.4. QMS Documentation

4.4.1. General

CPW QMS is documented through:

- Quality policy and quality objectives
- QMS Manual, which describes the company's Quality Management System, including:
  - the scope of the QMS and justification for exclusions of specific elements from the requirements of the API Q1 and ISO 9001
  - the fundamental principles to which all organization elements of the company are committed for the effective and successful management system implementation.

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- a description of the sequence and interaction between the processes of the QMS (see Appendix II)
- identification of processes that require validation
- reference to documented procedures that control the processes of QMS

- Business procedures, which are issued at corporate level in order to establish the corporate policies and objectives relative to Quality, as well as to assist on identification of legal or other applicable requirements that CPW claims compliance
- Process manuals, which are issued at plant level and describe the workflow and Quality processes criteria each manufacturing line must meet.
- Plant Specific Procedures, which define the interrelationship between the various organization elements of the Plant and provide instructions of the required control to assure the effective implementation of the Management System, as well as provide assistance on identification of legal or other applicable requirements that CPW claims compliance
- Work Instructions, which are issued for communicating, in detail, the established methods for performing and administering the works relative to assuring and controlling product quality.

All the applicable documents, documented procedures and work instructions have a reference to the records that must be maintained in order to verify the effective planning, operation and control of QMS processes.

Production, inspection, testing and all relevant activities are always carried out under controlled condition in order to meet quality and contractual requirements according to the existing management (quality) system and relative procedures in order to ensure the following:

- Product manufacturing is planned in respect to time schedule, quantity, equipment, type of production process, quality control and documentation.
- Before production for a contract is commenced it is assured that controls, process, inspection, equipment and qualified personnel are present to fulfill the specified requirements.
- Review of orders is performed in order to incorporate any updating of quality control, inspection and testing techniques, including the development of new instrumentation when needed.
- Verification of standards of acceptability for all order requirements.
- Preparation of documented quality plans and/or any other project specific documentation required
- Preparation and identification of quality records.

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4.4.2. Procedures

All procedures referenced within company's QMS are established, documented, implemented and maintained to address the requirements of API Q1 and ISO 9001, latest edition. Procedures continuous suitability to the applied specifications/standards is monitored through management reviews.

4.4.3. Control of Documents

CPW has established documented procedure for identifying, distributing and controlling all documents and data of the QMS for work or activities affecting Quality. A master list is used to identify the documents required by the QMS and their current revision status.

The documents and data used by CPW and which are subject to control include:

- QMS Manual.
- Procedures.
- Process Manuals.
- Work Instructions.

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- Forms.
- Process Sheets.
- Project Specific Procedures.
- Inspection and Test Plans.
- Manufacturing Procedure Specifications.
- Applicable Standards (National or International) and Legislation.
- Technical Documentation including Specifications, Drawings, Work Statements etc.

All controlled documents bear on each page at least the revision number.

The documents and data distribution process is applied electronically to all workstation with computer access and paper use is confined to a minimum. At any case the procedure includes:

- Establishing and updating of an official distribution list.
- Proof that the recipients receive the documents.
- Indication of the update (eg. master list) and authorization status.
- Removal of the obsolete Documents.

Any changes to the standards or the technical documentation or even the contract are reviewed and analyzed with respect to the impact that may have on the existing documentation and the necessary changes and/or modifications are made, in order to ensure that at any time the documents in use are consistent with the Customer requirements and the applicable Standards and specifications.

Changes to contract and customer technical documentation will also be followed-up, in order to implement the appropriate revisions to the affected documents and functions within the company.

The revisions are made and approved by those who are accordingly responsible for the issuance and approval of the original or current documentation. Revision numbers on each document identifies revision status.

All obsolete documents, which are retained, are suitably identified and kept in separate record files to avoid unintended use. Such documents may be kept only for legal or customer requirements and historical purposes.

Relevant Procedure:

CPW-B-X-100.0 *Control of Documents and Records*

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4.4.4. Use of External Documents in Product Realization

CPW maintains a documented procedure in order to assure that the product or other external specification requirements including addenda, errata and updates are integrated in the manufacture of the product.

Relevant Procedures:

CPW-B-X-100.0 *Control of Documents and Records*
CPW-B-X-260.0 *Standards Library*

4.5. Control of Records

CPW has established a documented procedure to identify the controls and responsibilities needed for the identification, collection, storage, protection, retrieval, retention time, and disposition of records.

Each procedure / work instruction has a section which describes the records kept as objective evidence of its implementation, as well as the time period, responsible person for collection, maintenance and format of each record.

Contracts, Work Instructions, Test procedures, Materials' Certificates of conformity, Lab and Test reports, Audit reports, Nonconformance reports, Suppliers and outsourced activities evaluation Sheets, Corrective Action reports etc. after completion of the relevant work are controlled to provide evidence to the organization's

QMS. QMS records are identified when applicable by subject; they are kept in hard or soft copies in such a manner as to be readily available when requested.

Records shall always be available upon request by the Customer or a Third Party, which is involved in the Project. All records are legible, identifiable, traceable, stored and maintained in such a way that they are readily retrievable, using facilities that provide suitable environments to minimize deterioration and prevent loss.

Relevant Procedure:

CPW-B-X-100.0 *Control of Documents and Records*

5. PRODUCT REALIZATION

5.1. Contract Review

CPW has established business procedures for reviewing, identifying, determining and documenting customer and other applied or legal requirements, necessary for the provision of the product. The requirements may be specified in contracts under negotiation, tenders, or changes to existing contracts, in order to ensure the company's technical ability and the necessary resources to satisfy them.

Relevant Procedure:

CPW-B-X-255.0 *Technical Inquiry-Order Review*

5.1.1. Review

Before a new contract is signed or an offer is submitted all organization elements of the Company affected or at any way involved during the implementation phase are analyzing and evaluating, with respect to their functions and responsibilities, all available data (Contract, Request for Proposal, Specifications and Standards etc) to ensure that Customer and other requirements are clearly and adequately defined.

The objective is to identify the commercial, technical and legal requirements and the impact that the new requirements may have to the Company's functions.

The results of such reviews are submitted accordingly to the relative authorized person for final approval before agreement is made with and contractual commitment is undertaken to the Customer by CPW.

5.1.2. Amendment to a Contract

Changes made during the life of the contract, either imposed by the Customer or proposed by the Company shall always be incorporated into the contract in the form of Amendments. Such changes are reviewed by all affected functions of the Company like the original contract, in order to evaluate the impact the changes may have to the current operations and determine the actions to be taken for their implementation.

It is the responsibility of the relevant Commercial Manager to transfer all information related to the change to all affected functions and, after obtaining the concurrence of relative parties, inform the Customer about CPW decision and the necessary arrangements for the implementation of the change. Relevant modifications to current Quality Plans and/or Procedures/ Work Instructions are applied in order to be in compliance with new contract requirements.

All documentation, which is developed during contract review, is collected by the Commercial Department and maintained as controlled record.

5.2. Planning

CPW has developed documented procedures to identify and plan the processes and documents needed for product realization. Planning is consistent with corporate policy and objects set by the management and fulfillment of customers' requirement.

In particular, plant planning function operates at the corporate level, covers the life cycle of orders and incorporates the following:

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- Short-term production, material and personnel scheduling.
- Middle-, long-term production capacity, legal requirements, material requirements and personnel planning.

In addition, developing these processes, CPW determines necessary resources, required verification, validation, monitoring, measurement, inspection and test activities, contingencies based on risk assessment, management of change and appropriate records needed to provide evidence that the realization processes and resulting product meet the requirements. Each unit develops its own procedure (process sheet) regarding the translation of the product requirements provided by external sources into the product realization process. This procedure is documented and updated when changes in any of the planning incomes occur.

Relevant Procedures:

CPW-B-X-900.0	*Production Planning*
CPW-T-X-105.0	*Process Sheet Issue – Internal Preproduction Meeting*
CPW-T-X-110.0	*Product Quality Plan (MPS,ITP)*

5.3. Risk Assessment and Management

CPW maintains a documented procedure to identify, control and mitigate risk associated with product delivery and quality, in dependence with its severity and probability of occurrence.

Risk assessment and management applies for risks:

- associated with product delivery, including CPW plant facilities or equipment and raw or secondary material availability and supply
- associated with product conformance to the specified requirements, including delivery of nonconforming product and the availability of competent and trained personnel.

Risk based thinking is spread through the processes of QMS. CPW risk management approach extends to opportunities as well (business and operational).

Relevant Procedure:

CPW-B-X-140.0	*Risk Assessment and Management with Contingency Planning*

5.4. Design and Development

CPW has excluded the Design and Development paragraph of API Q1 and ISO 9001 from the field of application of its Quality Management System since CPW does not have any authority or accountability for design of the product and the customer provides the design. So, that paragraph is not applicable for this Quality manual.

5.5. Contingency Planning

In order to control the assessed risks CPW has documented a procedure for contingency planning.

Relevant Procedure:

CPW-B-X-140.0	*Risk Assessment and Management with Contingency Planning*

5.6. Purchasing

5.6.1. Purchasing Control

- ***General***

Corinth Pipeworks S.A. maintains responsibility to ensure that purchased materials and outsourced activities conform to all customers, statutory and regulatory requirements. It is the policy of CPW to purchase products, processes (outsourcing) and services, hereafter referred to as "items", through external providers (suppliers and subcontractors) of known quality performance. All purchased items shall conform to the contractual and other requirements in accordance with documented procedures and instructions.

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The selection of the external providers is made on the basis of their ability to assure the required quality. Their performance is continuously evaluated and recorded and the so obtained records constitute the basis for continuation of the Company's cooperation with them.

The type and extend of control applied to the suppliers is based on the criticality of the activities or products, as they are applicable to conformance to product or customers specifications. According to the Quality Management System, there are two categories of purchases: critical and noncritical.

Purchasing control procedures address:

- the criticality of the supplied product or activity in relation to the conformance of the product to the specified requirements
- initial evaluation and selection of the supplier
- type and extend of control in order to evaluate suppliers and applied outsourced activities
- criteria, frequency and methods for suppliers re-assessment
- list of approved suppliers and scope of approval

- ***Initial Supplier Evaluation - Critical Purchases***

For purchase of critical products or activities, the criteria for the initial evaluation of suppliers by the company are site-specific for each supplier. Critical purchases include Steel Raw Material procurement, due to its great importance to the quality of the final product

The evaluation includes review of Supplier's Quality Management System for compliance with applicable standards and CPW requirements, and first article inspection or on site audit.

The result of this evaluation can be approval, conditional approval or disapproval.

Relevant Procedure:

CPW-B-X-271.0 *Critical Purchases – Steel Procurement*

- ***Initial Supplier Evaluation - Noncritical Purchases***

Noncritical purchases, that impact product realization or the final product, include:

- Welding Consumables,
- Coating and Blasting Materials and Consumables,
- Laboratory Equipment, Consumables and Services,
- NDT Equipment, Consumables and Services, and
- Outsourced processes

For purchase of noncritical products or activities, that impact product realization or the final product, CPW maintains documented procedures in order to define the evaluation methods.

Relevant Procedures:

CPW-B-X-272.0 *Non Critical Purchases*
CPW-B-X-273.0 *Coating Material Selection*

- ***Reevaluation***

Suppliers and Subcontractors are re-evaluated to assure that they maintain their approval status.

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- ***Records***

Suppliers and Subcontractors are listed per supplier category, in separate lists, depending on the criticality of the product or activity and the results of their evaluation are maintained.

- ***Outsourcing***

CPW maintains responsibility for product conformance to specified requirement even when outsources any activities associated with product realization.

The most common outsourced processes (when necessary) are the following:

- Special laboratory testing (e.g corrosion tests such as HIC/SSCC, fracture toughness CTOD testing, hot tensile)
- Calibration of monitoring and measuring equipment
- Special external or internal coating applications (e.g. cement, zinc primer)

The type and extend of control, to be applied to ensure that all applicable elements of CPWs QMS are satisfied, can be influenced by factors such as:

a) The potential impact of the outsourced processes on the organization's capability to provide product that conforms to customer requirements

b) The degree to which the control for the process is shared and

c) The capability of achieving the necessary control through the application of purchasing.

5.6.2. Purchasing Information

The identification of the requirements of the product and services needed for the implementation of the Contract is made during the contract review.

The purchasing documents contain a complete and clear description of the items to be ordered, including:

- Commercial terms, quantity and pricing.
- The type, class, style, grade, batching or other precise identification
- Applicable version of specifications drawing, process requirements, quality control/inspection instructions, traceability or other relevant technical data.
- Change control instructions
- Suppliers QMS requirements
- Packing, delivery and shipping instructions

All purchasing documents are reviewed and approved prior to their release to suppliers by relevant authority as described in specific procedures.

5.6.3. Verification of Purchased Items

Purchased items before being accepted by CPW are subject to a process of verification, the purpose being to assure that they meet the requirements. The verification process includes verification at source and/or receiving inspection at Plant. No release of purchased product is allowed before all verification activities have been completed. Specifically for raw and secondary material special procedures for verification of received products are issued at plant level.

When required product quality requirements may be verified at supplier premises. Such a verification method shall be explicitly specified in Product Quality Plan and / or procedures. Specific procedures for verification of subcontracted product are issued at plant level, according to Quality plan requirements.

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When specified in the order, Plant Director is responsible for making arrangements for customer's representative to verify that subcontracted products/ services conform to specified requirements. This verification may take place where appropriate at CPW's and/or supplier's premises.

Relevant Procedures:

CPW-B-X-271.0	*Critical Purchases – Steel Procurement*
CPW-B-X-272.0	*Non Critical Purchases*
CPW-T-HSJ-110.0	*Raw Material – Receipt, Feeding, Control*
CPW-T-CL-110.0	*Quality Control of Coating Materials During Receipt and Storage*

5.7. Product and Servicing Provision

5.7.1. Control of Production and Servicing

- ***Production***

CPW has established and maintains documented procedures to describe controls associated with production of product that:

- Address process control documents such as work instructions, manufacturing process sheets to make available information that describe product characteristics
- Cover situations where their absence could lead to deviations from the corporate policy, objectives and targets.
- Stipulate operating criteria.
- Design of workplace, process, installations, machinery, operating procedures and work organization
- Ensure that requirements and related changes are satisfied and the Product Quality Plan is implemented

Relevant Procedure:

CPW-B-X-255.0	*Technical Inquiry-Order Review*
CPW-T-X-105.0	*Process Sheet Issue – Internal Preproduction Meeting*
CPW-T-X-110.0	*Product Quality Plan (MPS,ITP)*

- ***Servicing***

CPW does not perform servicing activities therefore "servicing" is an exclusion of API Q1 requirements to implemented QMS.

- ***Process Control Documents***

CPW maintains documented control processes to verify conformance with product quality plans and standards such as API product specifications.

Relevant Procedures:

CPW-T-X-105.0	*Process Sheet Issue – Internal Preproduction Meeting*
CPW-T-X-110.0	*Product Quality Plan (MPS,ITP)*

- ***Procedures/ Work Instructions***

All operations are described in detailed Procedures / Work Instructions. Depending on the complexity and criticality of the activities, such documents include or refer to Process Sheets, Inspection/Test Procedures.

It is the responsibility of the Quality Function to assure that documents related to product quality are continuously in compliance with the agreed or predefined requirements.

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- ***Manufacturing Process Sheets***

The Manufacturing Process Sheets are issued at plant level and contain controlling operations, validation processes, inspection and testing, required customer's inspection hold or witness points and acceptance criteria. They provide detailed description on how a job will be done, the order with which the manufacturing/operations are to be performed, associated specifications to be used and other pertinent information.

- ***Personnel Certification***

Employees performing specialized activities with a critical impact on product quality (e.g. production or inspection and testing) such as welding, non-destructive testing, etc. are required to be certified prior to perform such operations.

To fulfill the certification requirements the employees have to demonstrate adequate proficiency by succeeding in theoretical written and/or oral examinations and operational tests which can prove adequate competence in respect to the knowledge and practice of the operation.

Personnel Certification is performed either internally or by using external providers, certificates or licenses are issued and maintained as documented information to denote certification status.

Quality Function is responsible to identify and retain records of certification requirements, co-ordinate the certification process and follow-up to ensure that personnel maintain their certification status.

- ***Product Realization Capability Documentation***

CPW maintains documented information to demonstrate its capability to satisfy specified product requirements. Records of monitoring, measurement, inspection, test activities and acceptances criteria, are retained in order to verify the required validation.

- ***Validation of Processes***

Processes which their resulting output cannot be practically verified by subsequent measurement or monitoring, are treated as processes to be validated.

Processes to be validated are evaluated, monitored and controlled by Quality Function to ensure their capability to produce acceptable products. Processes requiring validation for pipe manufacturing include sizing/forming, non-destructive inspection, welding, repair welding, heat treatment and cold expansion.

These processes are not acceptable before being validated by CPW and, when required, by the Customer as well. CPW has developed plant level procedures to identify, control and validate processes according to applicable standards.

Relevant Procedures:

CPW-T-HSJCL-150.0 *Validation of processes*

5.7.2. Product Quality Plan

When required, a specific Manufacturing Procedure Specification (MPS) or Inspection and Test Plan (ITP) may be issued. Such MPSs and ITPs are developed to specify the product realization processes to be applied to the product. When specified in the contract, the MPS or ITP is submitted to the Customer for agreement and/or approval. After approval by the Customer such documents are considered as external and are handled as such.

Relevant Procedure:

CPW-T-X-110.0 *Product Quality Plan (MPS,ITP)*

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5.7.3. Identification and Traceability

CPW has established specific procedures to cover the following:

- Materials and products are uniquely identified along all stages of receiving, storage, production, storage and delivery by using suitable marking according to the applicable specifications and internal procedures (eg. marking, bar-coding).
- Product and materials traceability and inspection/test status is achieved through data collection systems (manual and automatic) through all production and processing stages in all company manufacturing lines.
- Identification and traceability of materials and products are monitored throughout by designated Quality Control personnel to ensure that requirements are met and initiate corrective action.
- Maintenance and/or replacement of product identification marks and identification control records, should it be required.

Relevant Procedure:

CPW-T-HSJCL-310.0	*Traceability during manufacturing and coating of HFW and SAW Pipes*

5.7.4. Product Inspection / Test Status

CPW apart from controlling the unique identification of the product, retains records regarding identification of inspection and tests performed throughout the product realization process. These records provide information about the conformity or nonconformity of the product and allow the company to release or accept only products that meets requirements. Any nonconforming products are released only when they are authorized under concession by a relevant authority and -where applicable- by the customer.

Relevant Procedure:

CPW-T-X-135.0	*API Monogram application*
CPW-T-HSJCL-310.0	*Traceability during manufacturing and coating of HFW and SAW Pipes*
CPW-B-X-135.0	*Addressing Nonconforming Product*

- ***Use of API Monogram***

CPW implements the API Monogram program according to the following rules as per API Q1 standard:

a. CPW applies the monogram, license number and date of manufacture to all monogrammed pipes in accordance with marking procedures as specified by the applicable API and customer product specifications, where applicable.

b. The time of monogram application is referenced in specific plant level procedures. When a pipe is subsequently found to be in nonconformance against API or customer specified requirements the monogram will immediately be removed. At no occasion will pipes determined to be nonconforming to specified requirements shall bear the API monogram.

c. Authorized person for applying and removing the monogram on each pipe is identified in relevant procedures.

d. API monogram is applied only at the CPW facility.

Relevant procedures: (All procedures regarding control of operational product quality are referenced at plant level within each production line process manuals)

CPW-T-H-000.0	*HFW process manual*
CPW-T-S-000.0	*Helical SAW process manual*
CPW-T-J-000.0	*Longitudinal SAW process manual*
CPW-T-C-000.0	*External Coating process manual*
CPW-T-L-000.0	*Internal Coating process manual*
CPW-T-X-135.0	*API Monogram application*

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5.7.5. Customer or External Provider Property

- ***Customer property***

CPW has established a documented procedure for managing customer-supplied products, or intellectual property and personal data.

Products (e.g. pipes for coating) which are supplied by the Customer for the order implementation, are controlled, stored, maintained and used as specified by the Contract.

Customer supplied products are subject to a receiving inspection process in accordance with Customer's instructions. Any nonconformance found during receiving inspection is recorded and submitted to Customer before the products are accepted. Accepted customer supplied products are always stored in a segregated area and any loss of damage to them is recorded and at the earliest possible is reported to the Customer.

Specific procedures may be issued to describe aforementioned activities according to agreed quality plan with the customer.

Relevant Procedure:

CPW-B-X-290.0	*Customer Property Preservation / Stock Periodic Assessment*

- ***External provider property***

CPW demonstrates special care with property belonging to external providers while it is under CPW control or being used by the organization. Property belonging to external providers includes (basically) equipment or tools, which are handled with care and safety rules, as any other CPW equipment or tool. The common practice followed, is to be used only by external provider's personnel or CPW qualified personnel and to be kept/stored, at safe/secured areas (at least, within industrial zone). If the property of an external provider is lost, damaged or otherwise found to be unsuitable for use, CPW shall report this to the provider.

Special terms regarding handling and/or safeguarding of such property, may be documented to contracts, in case of expensive or sensitive equipment/infrastructure (temporary or permanent facilities within CPW plant, for outsourced processes).

5.7.6. Preservation of Product

CPW has established documented procedures at plant level for handling, storage, packaging and preservation of products and materials.

These procedures stipulate that stored products are appropriate intervals assessed to prevent product and materials deterioration due to environmental conditions and ageing. The results of assessments are maintained.

Depending upon the nature of the material, which can be raw material, consumables, semi-finished or finished product and the contract or regulatory requirements, specific instructions are developed and implemented to assure that they are handled, stored, packaged and delivered to the customer in such a manner as to protect the quality as well as to ensure environmental and safety requirements. Logistics & Storage Function is responsible to assure that relative procedures are implemented and designated storage areas throughout the plant facilities, are used.

Relevant Procedures:

CPW-B-X-290.0	*Customer Property Preservation / Stock Periodic Assessment*
CPW-T-HSJCL-130.0	*Handling- Storing- Q.C- Loading of Bare and Coated Pipes*

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5.7.7. Inspection and Testing

- ***General***

CPW maintains documented procedure for inspection and testing to verify that product requirements have been met. The procedure includes requirements for in-process and final inspection and testing. Records of required inspection and testing are retained.

- ***In-progress Inspection and Testing***

Inspection and test is carried out at planned stages as required by the quality plan (MPSs, ITPs) and/or other process control documented information. Evidence of conformity with the acceptance criteria is retained.

- ***Final Inspection and Testing***

Final inspection and testing is carried out as required by the product quality plan (MPSs, ITPs), and referenced therein documented procedures and forms in order to validate and document conformity of the final product to specified requirements.

Records indicate the person(s) - Quality Control - authorizing release of product for delivery to the customer, which is different than those who performed or directly supervised product manufacture

Relevant Procedure:

CPW-T-X-110.0 *Product Quality Plan (MPS,ITP)*

5.7.8. Preventive Maintenance

CPW maintains documented procedure for the establishment of preventive maintenance performed on equipment with a critical impact on product quality and HSE protection. The procedure identifies requirements the type of the equipment to be maintained, frequency and responsible personnel. Records of preventive maintenance are maintained.

Relevant Procedures:

CPW-T- X-405.0 *Maintenance Services*
CPW-T- X-406.0 *Preventive Maintenance*

5.8. Control of Testing, Measurement and Monitoring Equipment

All inspection, measuring and test equipment, including tools used as media for inspection and affecting the conformity of product to determined requirements, are controlled and maintained in a manner which ensures that their capability and accuracy satisfy relevant specified requirements, according to established procedures.

All the devices - as described above - when purchased and before being released for use are identified by unique identification number which is properly marked on the equipment and listed in the Calibration List. Personnel are not permitted to use any means of inspection measuring and testing other than the ones provided by the Company. The required accuracy of the inspection, measuring and test equipment is achieved and maintained through a Calibration Program.

Calibration process is performed by internal and/or external sources and follows applicable calibration standards, which provide information and instruction with regard to equipment Identification, including identification number, manufacturer, type and model, accuracy and range of application, calibration method, frequency of calibration and Repair Instructions as to correct deviations found during calibration. When the inspection and measuring equipment is provided from an external source, suitability and evidence of conformity to the requirements are verified.

Suitable environmental conditions for calibration, inspections, measurements and tests are specified in relevant plant procedures. These procedures specify any handling, preservation and storage special requirements for inspection, measuring and test equipment in order accuracy and fitness-for-use is

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maintained. These will also cover suitable safeguards of inspection, measuring and test facilities (hardware and software) to prevent any adjustments that would invalidate the calibration settings.

Calibrations and registration records, that include unique identification specific to each equipment, are documented and maintained. When an inspection, measuring and test equipment during calibration is found to be out of the specified tolerance, the products or work which have been inspected, measured or tested shall be re-inspected by an equipment of known accuracy while the defected equipment shall be sent for maintenance.

Quality Function is responsible to comply with this procedure regarding its area of responsibility for assuring the effective and successful implementation of the Calibration Program.

Relevant procedure:

CPW-T-HSJCL-195.0 *Calibration*

5.9. Product Release

Product release cannot proceed until the planned arrangements have been satisfactorily completed, unless otherwise approved by a relevant authority and -where applicable- by the customer. Records indicate the person(s) - Quality Control Function- authorizing release of product for delivery to the customer, which is, in any case, different than those who performed or directly supervised product manufacture.

Relevant Procedure:

CPW-T-HSJCL-310.0 *Traceability during manufacturing and coating of HFW and SAW Pipes*
CPW-B-X-135.0 Addressing Nonconforming Product

5.10. Control of Nonconforming Product

5.10.1. General

CPW maintains documented procedure to identify the controls and related responsibilities and authorities for dealing with nonconforming product. Nonconforming product is identified and controlled to prevent its unintended use or delivery.

All practices regarding handling of non-conformances related to product/ process specifications are referenced at plant level within each production line process manuals (see 7.5). In addition, corrective or preventive actions may be taken to eliminate causes of actual and potential non-conformances. These actions should be appropriate to the magnitude of problems and address the product deficiencies encountered. Relevant records are kept.

5.10.2. Nonconforming Product

The company deals with nonconforming product by one or more of the following ways by:

- Rework or repair with subsequent inspection to meet specified requirements;
- Authorizing its release under concession by a relevant authority or customer;
- Taking action to preclude its original intended use or application, by downgrading to non-API grades or scraping.

API product "Use-as-is" product/ material is not an acceptable disposition.

5.10.3. Release of Nonconforming Product Under Concession

The process of evaluation, release and acceptance of product that does not satisfy the manufacturing acceptance criteria (MAC) requires written customer approval, provided that either:

- The products continue to satisfy the applicable DAC or customer criteria.
- The violated MAC are categorized as unnecessary to satisfy the applicable DAC or customer criteria.

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- Products are repaired or reworked to satisfy the customer criteria.

5.10.4. Customer Notification

When nonconforming product is detected after delivery or field use has started, the organization takes respective action appropriate to the effects, or potential effects, of the nonconformity. Also, organization notifies customer about the non-conforming product and maintain records of such notifications.

5.10.5. Records

Records of the nature of nonconformities and any subsequent actions taken, including concessions obtained, are maintained. When nonconforming product is corrected it is subject to re-verification to demonstrate conformity to the requirements.

Relevant procedures:

CPW-B-X-135.0	*Addressing Nonconforming Product*
CPW-B-X-130.0	*Non-Conformances – Corrective and Preventive Actions*
CPW-T-HSJCL-310.0	*Traceability during manufacturing and coating of HFW and SAW Pipes*

5.11. Management of Change (MOC)

5.11.1. General

CPW maintains documented procedure for MOC, in order to ensure that the integrity of the QMS is maintained when changes related to it are planned and implemented. MOC is based on the identification of the potential risks associated with the change and any require approvals prior to the introduction of such change. Relevant records are kept.

Relevant procedure:

CPW-B-X-145.0	*Management of change*

5.11.2. MOC Implementation

CPW implements MOC procedure for changes in the organizational structure and key personnel, changes in suppliers of raw material and change of the applied international standards that affect the QMS of the company.

5.11.3. MOC Notification

When required by contract, any change implemented in the company's QMS should be notified to customers and relevant personnel in respect to its nature and the associated risk.

6. QMS MONITORING, MEASUREMENT, ANALYSIS, AND IMPROVEMENT

6.1. General

CPW plans and implements the monitoring, measurement, analysis and improvement processes needed to ensure the continuous improvement and effectiveness of the QMS and its conformity to the requirements of API Q1 and ISO 9001. Additionally, these processes verify that corporate objectives and targets are met.

QMS monitoring, measurement, analysis and improvement includes determination of applicable methods, including techniques for the analysis of data, and the extent of their use.

Relevant procedures:

CPW-B-X-110.0	*Quality Objectives / Continuous Improvement*
CPW-B-X-111.0	*Analysis of Data- QMS Performance Monitoring*

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6.2. Monitoring, Measuring, and Improving

6.2.1. Customer Satisfaction

CPW maintains documented procedure to measure customer satisfaction. The procedure addresses the frequency of measurement, obtaining customer feedback, key performance indicator (KPIs), warranty claims and other relevant reports. Records of the results of customer satisfaction are maintained.

Relevant procedure:

CPW-B-X-240.0	*Monitoring of Customer Satisfaction*

6.2.2. Internal Audit

- ***General***

CPW maintains documented procedure where responsibilities for planning, conducting and documenting internal procedures, are defined. Internal audits verify that the QMS is effectively implemented, maintained and conforms to the requirements of API Q1 and ISO 9001. Audit programs are planned, taking into consideration the results of previous audits and criticality of the process being audited.

Audit criteria, scope, frequency and methods are defined in order to ensure that all company's processes, that claim conformity to API Q1 specification, are audited at least once per year.

Internal audits include outsourced activities that impact the quality of the product and that are performed at CPWs plant facilities.

Relevant procedure:

CPW-B-X-105.0	*Internal Audit*

- ***Performance of Internal Audit***

Audits are performed by competent and qualified personnel and their selection ensures objectivity and impartiality of the audit process, by avoiding auditors being directly responsible for audited areas. Objective evidence of the QMS implementation and maintenance is provided by relevant audit records.

Prior to claiming conformance to API Q1 specification, CPW ensures that all the required processes have been audited.

- ***Audit Review and Closure***

When nonconformities are detected, response times for addressing them are identified. The management responsible for the area being audited ensures that necessary actions are taken according to the requirements of CPWs internal procedure for corrective actions. The results of internal audits and the status of corrective actions are reported in the management review. Records of internal audits are maintained.

6.2.3. Process Evaluation

The ability of CPWs QMS processes, to achieve planned results and conformity to product requirements, is demonstrated by suitable evaluation methods (internal audits & Management reviews). When planned results are not achieved, correction and corrective actions are taken, as appropriate, to ensure conformity of the product.

Relevant procedures:

CPW-B-X-105.0	*Internal Audit*
CPW-B-X-110.0	*Quality Objectives / Continuous Improvement*
CPW-B-X-111.0	*Analysis of Data- QMS Performance Monitoring*
CPW-B-X-120.0	*Management Review*
CPW-B-X-130.0	*Non-conformances – Corrective and Preventive Actions*

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6.3. Analysis of Data

CPW maintains documented procedure for the identification, collection, and analysis of data to demonstrate the suitability and effectiveness of the QMS. The analysis includes data generated from monitoring and measurement, internal audits, management reviews, and other relevant sources.

The analysis of data provides information relating to:

- Customer satisfaction,
- Effectiveness of actions taken to address risks and opportunities,
- Conformity to product requirements,
- Nonconformities, complaints, warranty claims, field claims
- Characteristics and trends of processes and products including opportunities for improvement,
- Performance and effectiveness of the quality management system
- Evaluation and performance monitoring of external providers and
- Quality objectives and effective implementation of planning

Relevant procedures:

CPW-B-X-105.0	*Internal Audit*
CPW-B-X-110.0	*Quality Objectives / Continuous Improvement*
CPW-B-X-111.0	*Analysis of Data- QMS Performance Monitoring*
CPW-B-X-120.0	*Management Review*

6.4. Improvement

6.4.1. General

CPW continually improves the effectiveness of the QMS through the use of the corporate policy, objectives, targets, audit results, analysis of data, corrective and preventive actions, as well as management review.

Relevant procedures:

CPW-B-X-130.0	*Non-conformances – Corrective and Preventive Actions*
CPW-B-X-120.0	*Management Review*
CPW-B-X-111.0	*Analysis of Data- QMS Performance Monitoring*

6.4.2. Corrective Action

CPW maintains documented procedure to correct nonconformities and to take corrective actions, both internally and within the supply chain, to eliminate the causes of actual nonconformities in order to avoid recurrence. Corrective actions are appropriate to the magnitude of problems and commensurate with the product deficiencies encountered,

A documented procedure has been established to define requirements for:

- Reviewing nonconformities (including customer complaints),
- Determining and implementing corrections,
- Identifying the root causes of nonconformities,
- Evaluating the need for corrective actions,
- Implementing corrective actions to avoid recurrence,
- Determining response time and responsible person(s) for addressing corrections and corrective actions,
- Verifying the effectiveness of the corrective action taken

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- Updating risks and opportunities determined during planning, if necessary, and
- Ensuring that MOC requirements are satisfied when the corrective actions require new or changed controls within the QMS;

Records of the activities for control of nonconformities are maintained.

Relevant procedure:

CPW-B-X-130.0 *Non-conformances – Corrective and Preventive Actions*

6.4.3. Preventive Actions

CPW maintains documented procedures to determine and implement preventive actions, both internally and within the supply chain, to eliminate the causes of potential nonconformities in order to avoid occurrence. Preventive are appropriate to the effect (s) of the potential problems.

Documented procedures have been established to define requirements for:

- Identifying opportunities for improvement
- Identifying potential nonconformities, and their potential causes,
- Evaluating the need for preventive action, including any immediate or short-term action, to prevent occurrence of nonconformities etc.,
- Identifying timeframe and responsible person(s) for implementing a preventive action,
- Reviewing the effectiveness of the preventive action taken,
- Ensuring that MOC requirements are satisfied when the preventive actions require new or changed controls within the QMS;

Suggestions for improvement from different sources (auditors, clients, personnel) are handled through the implementation of CPW-B-X-130.0, while risk treatment or mitigation plans resulting from risk assessment process are handled through the implementation of CPW-B-X-140.0 procedure. In both cases, these actions are considered as preventive actions, as they enhance a proactive mechanism to avoid/minimize potential effects of a hazard or to maximize the effect/probability of an opportunity.

Relevant procedure:

CPW-B-X-130.0 *Non-conformances – Corrective and Preventive Actions*
CPW-B-X-140.0 *QMS Risk Assessment and Management with Contingency Planning*

6.5. Management Review

6.5.1. General

CPW Top Management performs at least annual reviews of the overall performance of the QMS to evaluate its continuing suitability, adequacy and effectiveness. During these reviews opportunities for improvement and need for changes (e.g. policy, objectives) are assessed. Minutes of such reviews are kept with the responsibility of Quality Director. Additionally, intermediate management performs more periodic reviews according to relevant procedures.

Relevant procedures:

CPW-B-X-120.0 *Management Review*

6.5.2. Review Input

The input to management review includes information on:

- the status & effectiveness of actions from previous management reviews;
- changes in external and internal issues that could affect the Quality Management System, including changes to legal or other applicable standards;

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- information on the performance and effectiveness of the Quality Management System, including trends in the following:

  -customer satisfaction and feedback from relevant interested parties;

  -the extent to which quality objectives have been met;

  -process performance and conformity of products, including product nonconformities identified after delivery or use (field nonconformities);

  -nonconformities and corrective/ preventive actions;

  -monitoring and measurement results;

  -the results of audits (internal and external)

  -the performance of external providers (suppliers);
- the adequacy of resources;
- risk assessment and the effectiveness of actions taken to address risks and opportunities;
- opportunities & recommendations for improvement.

6.5.3. Review Output

The output from the management review include a summary assessment of the effectiveness of the QMS, which includes:

- Any required changes to the QMS processes
- Decisions and actions-opportunities for improvement to products on meeting customer requirements
- Resources needs

The output of management review is documented by Quality Director, reviewed and approved by Top Management. CPW retains records of the results of management review.

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7. SUPPORTIVE FUNCTIONS

Several supportive functions, within the QMS framework, have been developed in order to identify, control and monitor issues which do not directly relate to quality issues but are of equal importance to the successful functioning of the company to meet its objectives and targets. The scope of each of these functions is described in the following paragraphs.

7.1. Financial service

The Finance Service provides full service finance and accounting functions for CORINTH PIPEWORKS. It is mainly responsible for the design, formulation, and proper implementation of the financial and accounting procedures and policies, in a timely, accurate and lawful manner.

It is responsible for capital budgeting and cash flow management strategy and implementation, taking into accounts the current and anticipated financing needs and strategic goals of the company.

It plays an important role in the process of evaluating investment and financing decisions, while maintaining the optimal financial structure of the company, in order to maximize shareholder's value and to secure the long term prospects of the company's' employees.

7.1.1. Budget, accounting and financial control function

Communicates priorities to each department in the form of mutually agreed upon goals and objectives and assists in the preparation of an accurate and informative budget. In cooperation with the commercial

department assists in the preparation of the forecast and oversees the adoption of the budget, which includes both operating and capital budgets.

Co-ordinates and supervises the necessary procedures for the formulation and implementation of the investment plan adopted from the company.

It oversees departmental spending to avoid unnecessary expenditures and, where necessary, takes corrective actions.

Organises, coordinates, performs and controls the financial and accounting procedures of the company in a timely and accurate manner within the Greek Accounting and Tax legal framework while also adhering to the International Financial Reporting Standards (IRFS's).

7.1.2. Capital budgeting and cash flow management function

Sets the guidelines and oversees the capital budgeting function of the company. This includes pre-emptively setting the necessary targets for the optimisation of cash in-flows and out-flows of the company.

For short term planning, this is achieved by pre-emptively setting, communicating and monitoring the achievement of such targets by the commercial functions of the company that negotiate customer and supplier payment terms and are responsible for the timely sourcing of raw materials and the timely delivery of products to the customer.

For long term planning, this includes planning and optimising the sourcing of the necessary funds for the realisation of the investment plans of the company, taking into account current and anticipated capital budgeting needs and opportunities, the long term cyclicality and other characteristics of the industry.

Oversee and optimise the investment of available cash in zero risk instruments with a duration that takes into account the anticipated cash needs of the company.

7.1.3. Costing function

Responsible for the implementation of costing procedures and the provision of timely and accurate information to the commercial department in order to assist in the pricing decision making procedure. Monitors and examines the costs to be within the agreed targets and where necessary it takes corrective actions.

7.1.4. Treasury risk management function

Responsible for the treasury risk management function of the company. This includes the design and implementation of the foreign exchange risk management strategy and the design and implementation of the commercial credit risk management strategy. Treasury risk management goals are communicated to the commercial department and are achieved with the close co-operation of the commercial and treasury functions.

It is also responsible for monitoring the payment habits of the clients and for proposing any necessary pre-emptive and/or corrective measures, as appropriate.

7.2. Information Technology Service

IT service provides technology design and selection, technical support and training, systems management and administration, technology acquisition, the review and development of IT policies and standards, and strategic planning services.

To ensure that these services are provided in an effective, efficient and timely manner, IT service will:

- Support and promote the productive use of technology throughout the organization.
- Ensure that all technology in place is secure, reliable and performing as needed.
- Provide timely, effective end-user support to resolve problems and provide assistance.

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- Select, design and install cost-effective, quality technology solutions, designed to meet business needs.
- Manage service contracts and vendor relationships for highest quality at reasonable costs.
- Protect business interests and technology investments with effective IT policies and practices.
- Promote end-user self-sufficiency through training and communication.
- Maintain positive relationships with end-users through information and communication.

7.3. Administration Service

Administration service covers the following functions:

- Premises and equipment security.
- General transportation means.
- General facilities.

7.4. Public Relations Service

Public relations service covers the following functions:

- Company promotion (press releases, advertisements, financial statements etc.).
- Newsletter issue and distribution.
- Internal communications.
- Relations with promotion companies.

7.5. Legal Service

The Legal Department assures the legality in every activity of the company. It provides any necessary advice to the sections of the company, in order to protect its rights and the duly application of its decisions, aiming at the achievement of company's goals and securing its interests.

The Legal Department is responsible for drafting and negotiating agreements, reviewing purchase orders of customers and other contracts based always on the principles of fairness and reasonableness, with the intention to promote the business of the company and its relations with customers.

It maintains, organizes and secures efficient archives of all original agreements or other important documents, where the company is involved.

It is involved in obtaining any necessary approvals and satisfying any laws or regulations applicable to the activities of the company.

In case of dispute with third parties, the legal department represents the company in court or otherwise, conducts negotiation proceedings and generally contributes to the formation of the strategy of the company with respect to such conflicts.

The Legal Advisor is present at all sessions of the Board of Directors and the General Assembly of the company, takes the minutes of such sessions and provides any requested legal advice.

Relevant procedures:

CPW-B-X-275.0 *Original contracts registration*

7.6. Shareholders and Investor Relations Service

Responsible for the operation of the company in compliance with the Greek stock market laws, guidelines and codes of ethics and the equal treatment of all shareholders, irrespective of their participation in the shareholders capital. This includes the responsibility for the timeliness, accuracy and completeness of

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disclosures to the public, the Athens Stock Exchange and the Securities and Exchange Commission, in the form of annual reports, press releases and the publishing of financial statements.

Responsible for the education of the investment community for the nature and scope of operations of the company and the characteristics and dynamics of the industry in which it operates, as well as for the accurate, timely and lawful communication to the investment community of the current status and the prospects of the company. Target audiences include institutional investors, private equity funds and equity analysts.

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APPENDICES

APPENDIX I: CROSS-REFERENCE FROM API Q1, 9th edition to ISO 9001:2015

API Q1 Paragraph Number	ISO 9001:2015 Reference	Title (API Q1)
4		Quality Management System Requirements
4.1		Quality Management System
4.1.1	4.4; 8.1; 10.1; 10.3	General
4.1.2	5.1; 5.2	Quality Policy
4.1.3	5.1; 6.2; 8.1	Quality Objectives
4.1.4	4.4; 8.1; 6; 6.1; 6.3	Planning
4.1.5		Communication
4.1.5.1	7.4; 5.1	Internal
4.1.5.2	5.1.2; 8.2.1	External
4.2		Management Responsibility
4.2.1	4.4; 5.1;	General
4.2.2	5.3	Responsibility and Authority
4.2.3	5.3	Management Representative
4.3		Organization Capability
4.3.1	7.1.1; 7.1.2; 8.1	Provision of Resources
4.3.2		Human Resources
4.3.2.1	7.2; 7.3	General
4.3.2.2	7.2	Personnel Competence
4.3.2.3	7.2; 7.3	Training and Awareness
4.3.3	7.1.3; 7.1.4	Work Environment
4.4		Document Requirements
4.4.1	7.5.1; 4.3; 7.5.1; 4.4; 8.1	General
4.4.2	n/a	Procedures
4.4.3	7.5.2; 7.5.3	Control of Documents
4.4.4	n/a	Use of External Documents in Product Realization
4.5	7.5.2; 7.5.3	Control of Records
5		Product Realization
5.1		Contract Review
5.1.1	n/a	General
5.1.2	8.2.2; 8.2.3	Determination of Requirements
5.1.3	8.2.3	Review of Requirements
5.2	8.1	Planning
5.3	6.1	Risk Assessment and Management
5.4		Design and Development
5.4.1	8.3; 8.3.1; 8.3.2	Design and Development Planning
5.4.2	8.3.3	Design and Development Inputs
5.4.3	8.3.5	Design and Development Outputs
5.4.4	8.3.4	Design and Development Review

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API Q1 Paragraph Number	ISO 9001:2015 Reference	Title (API Q1)
5.4.5	8.3.4	Design and Development Verification and Final Review
5.4.6	8.3.4	Design and Development Validation and Approval
5.4.7	8.3.6	Design and Development Changes
5.5		Contingency planning
5.5.1	n/a	General
5.5.2	n/a	Planning Output
5.6		Purchasing
5.6.1		Purchase Control
5.6.1.1	4.4; 8.4.1; 8.4.2	Procedure
5.6.1.2	n/a	Initial Supplier Evaluation--Critical Purchases
5.6.1.3	n/a	Initial Supplier Evaluation--Noncritical Purchases
5.6.1.4	n/a	Supplier Re-evaluation
5.6.1.5	8.4.1	Supplier Evaluation--Records
5.6.1.6	4,4; 8.4.1; 8.4.2	Outsourcing
5.6.2	8.4.3	Purchasing Information
5.6.3	8.4.2	Verification of Purchased Products or Activities
5.7		Production and Servicing Provision
5.7.1		Control of Production and Servicing
5.7.1.1	8.5.1; 8.5.5	Production
5.7.1.2	8.5.1; 8.5.5	Servicing
5.7.1.3	n/a	Process Control Documents
5.7.1.4	n/a	Product Realization Capability Documentation
5.7.1.5	8.5.1	Validation of Processes for Production and Servicing
5.7.2	n/a	Product Quality Plans
5.7.3	8.5.2	Identification and Traceability
5.7.4	8.7	Product Inspection/Test Status
5.7.5	8.5.3	Customer-Supplied Property
5.7.6		Preservation of Product
5.7.6.1	8.5.4	General
5.7.6.2	n/a	Storage and Assessment
5.7.7		Inspection and Testing
5.7.7.1	8.6	General
5.7.7.2	8.6	In-process Inspection and Testing
5.7.7.3	8.6	Final Inspection and Testing
5.7.8	7.1.3	Preventive Maintenance
5.8	7.1.5	Control of Testing, Measuring and Monitoring Equipment for Product Conformity
5.9	8.6	Product Release
5.10		Control of Nonconforming Product
5.10.1	8.7	General
5.10.2	8.7	Nonconforming Product
5.10.3	8.7	Release or Acceptance of Nonconforming Product under MAC or DAC Concession
5.10.4	8.7	Customer Notification
5.10.5	8.7	Records
5.11		Management of Change (MOC)
5.11.1	8.5.6	General
5.11.2	8.5.6	MOC Implementation

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API Q1 Paragraph Number	ISO 9001:2015 Reference	Title (API Q1)
5.11.3	8.5.6	MOC Notification
6		Quality Management System Monitoring, Measurement, Analysis, and Improvement
6.1	4.4; 9.1.1; 10.1; 10.3	General
6.2		Monitoring, Measuring, and Improving
6.2.1	9.1.2	Customer Satisfaction
6.2.2		Internal Audit
6.2.2.1	9.2	General
6.2.2.2	9.2	Performance of Internal Audit
6.2.2.3	9.2; 9.3.2	Audit Review and Closure
6.2.3	4.4; 9.1.1	Process Evaluation
6,3	9.1.3	Analysis of Data
6,4		Improvement
6.4.1	10.1; 10.3	General
6.4.2	10.2	Corrective Action
6.4.3	6.1	Preventive Action
6.5		Management Review
6.5.1	9.3.1	General
6.5.2	9.3.2	Input Requirements
6.5.3	9.3.3	Output Requirements
Annex A		Use of API Monogram by Licensees
A.4	n/a	Quality Management System Requirements
A.5	n/a	Control of the Application and Removal of the API Monogram
A.6	n/a	Design Package Requirements

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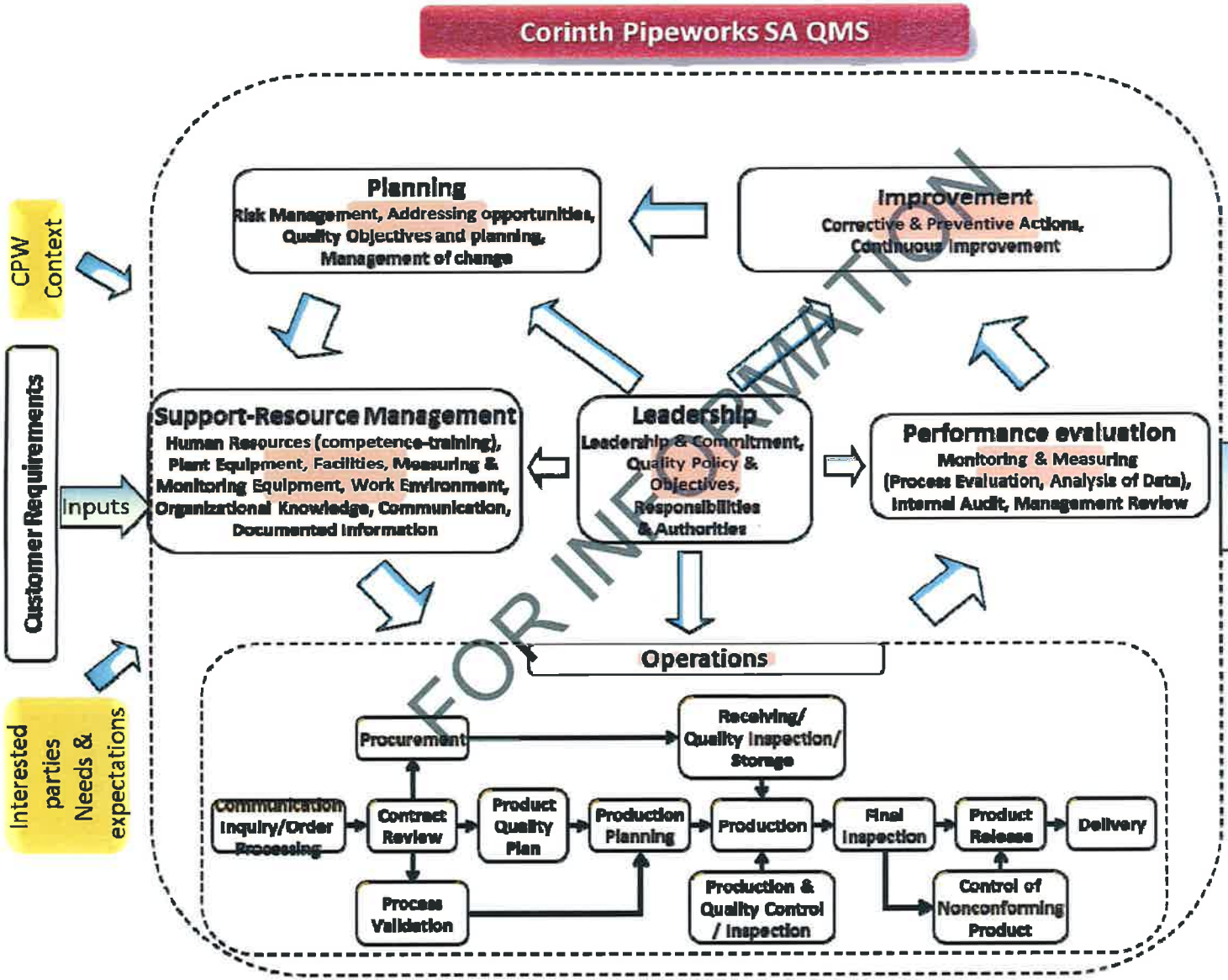
APPENDIX II



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CORINTH PIPEWORKS
PIPE INDUSTRY S.A.

QMS PROCEDURE MASTER LIST

CORINTH PIPEWORKS S.A.

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NR	ΚΑΤΗΓΟΡΙΑ/ CATEGORY	PROCEDURE/ WORKING INSTRUCTION/ FORM	ΚΩΔΙΚΟΣ/ CODE	REV.	LINK	REMARKS
		THISVI PLANT GENERAL				
1	GENERAL	Order entry management	CPW-T-X-100.0	2	CPW-T-X-100.0	Controlled copy EN/ Uncontrolled copy
2	GENERAL	Order Entry Form Steel Pipes	CPW-T-X-100.0.1	0	CPW-T-X-100.0.1	Controlled copy
3	GENERAL	Order Entry Form Hollow Section	CPW-T-X-100.0.2	0	CPW-T-X-100.0.2	Controlled copy
4	GENERAL	Production Schedule Hollow Sections	CPW-T-X-100.0.3	0	PKPK_APRIL 2012-REV_1_05-04-2012	Controlled copy
5	GENERAL	Process Sheet Issue & Internal Pre-Production Meeting	CPW-T-X-105.0	2	CPW-T-X-105.0	Controlled copy
6	GENERAL	Form Process Sheet	CPW-T-X-105.0.1	2	CPW-T-X-105.0.1	Controlled copy
7	GENERAL	Process Sheets for HFW 7 5/8 Production Line	CPW-T-X-105.0.2	0	CPW-T-X-105.0.2	Controlled copy
8	GENERAL	Minutes of internal pre- production	CPW-T-X-105.0.3	0	CPW-T-X-105.0.3	Controlled copy
9	GENERAL	Product Quality Plan (ITP,MPS)	CPW-T-X-110.0	0	CPW-T-X-110.0	Controlled copy
10	GENERAL	Inspection and Test Plan -xxx	CPW-T-X-110.0.1	1	CPW-T-X-110.0.1	Controlled copy
11	GENERAL	Manufacturing Procedure Specification	CPW-T-X-110.0.2	0	CPW-T-X-110.0.2	Controlled copy
12	GENERAL	Element Submission	CPW-T-X-115.0	0	CPW-T-X-115.0	Controlled copy EN/ Uncontrolled copy
13	GENERAL	PS contents transfer to Production & QC departments	CPW-T-X-120.0	0	CPW-T-X-120.0	Controlled copy EN/ Uncontrolled copy
14	GENERAL	Increased rejection research - actions	CPW-T-X-130.0	0	CPW-T-X-130.0	Controlled copy EN/ Uncontrolled copy
15	GENERAL	API Monogram Application	CPW-T-X-135.0	4	CPW-T-X-135.0	Controlled copy
16	GENERAL	Execution of orders Domestic/ International - pipes excess& downgraded with road	CPW-TC-X-180.0	1	CPW-TC-X-180.0	Controlled copy
17	GENERAL	Requirements for domestic road transportion	CPW-TC-X-180.1	0	CPW-TC-X-180.1	Controlled copy
18	GENERAL	Loading of pipes	CPW-T-X-220.0	0	CPW-T-X-220.0	Controlled copy
19	GENERAL	External Pipe cutting Unit	CPW-T-X-300.0	0	CPW-T-X-300.0	Controlled copy
20	GENERAL	Record sheet of pipe cutting with plasma	CPW-T-X-300.0.1	0	CPW-T-X-300.0.1	Controlled copy
21	GENERAL	Record sheet cutting department	CPW-T-X-300.0.2	0	CPW-T-X-300.0.2	Controlled copy
22	GENERAL	Record sheet of Dimensional Pipe Control	CPW-T-X-300.0.3	0	CPW-T-X-300.0.3	Controlled copy
23	GENERAL	Production Managment, QC Inspectors, Shift Inspectors' Duties	CPW-T-X-400.0	1	CPW-T-X-400.0	Controlled copy
24	GENERAL	Mill Test Certificate ACC TO EN10204	CPW-T-X-400.0.1	1	CPW-T-X-400.0.1	Controlled copy
25	GENERAL	Daily production report, Quality control, handling with maintenance	CPW-T-X-400.0.2	0	CPW-T-X-400.0.2	Controlled copy
26	GENERAL	Maintenance Services	CPW-T-X-405.0	1	CPW-T-X-405.0	Controlled copy
27	GENERAL	Monthly Maintenance Report	CPW-T-X-405.0.1	1	CPW-T-X-405.0	Controlled copy
28	GENERAL	Preventive Maintenance	CPW-T-X-406.0	0	CPW-T-X-406.0	Controlled copy
		THISVI PLANT PURCHASING & INVENTORY CONTROL				
29	THISVI PURCHASING & INVENTORY CONTROL	Receipt and Handling of Incoming Materials at Thisvi Plant	CPW-T-X-700.1	0	CPW-T-X-700.1	Controlled copy
30	THISVI PURCHASING & INVENTORY CONTROL	Status of parcel receipt from Cables	CPW-T-X-700.1.1	0	CPW-T-X-700.1.1	Controlled copy
31	THISVI PURCHASING & INVENTORY CONTROL	Trucking	CPW-T-X-700.1.2	0	CPW-T-X-700.1.2	Controlled copy
32	THISVI PURCHASING & INVENTORY CONTROL	Application form for warehouse materials	CPW-T-X-700.1.3	0	CPW-T-X-700.1.3	Controlled copy
33	THISVI PURCHASING & INVENTORY CONTROL	Protocol of detected material	CPW-T-X-700.1.4	0	CPW-T-X-700.1.4	Controlled copy
34	THISVI PURCHASING & INVENTORY CONTROL	Timber receipt bulletin	CPW-T-X-700.1.5	0	CPW-T-X-700.1.5	Controlled copy
35	THISVI PURCHASING & INVENTORY CONTROL	Equipment receipt protocol	CPW-T-X-700.1.6	0	CPW-T-X-700.1.6	Controlled copy
36	THISVI PURCHASING & INVENTORY CONTROL	Protocol of asset destruction	CPW-T-X-700.1.7	0	CPW-T-X-700.1.7	Controlled copy
37	THISVI PURCHASING & INVENTORY CONTROL	Application for coils supply from Production	CPW-T-X-700.1.8	0	CPW-T-X-700.1.8	Controlled copy
38	THISVI PURCHASING & INVENTORY CONTROL	SAP Manual - Systematic Receipt	CPW-T-X-700.2	0	CPW-T-X-700.2	Controlled copy
		THISVI PLANT HSCL (HFI/SPIRAL/COATING/LINING) (COMMON				
39	COMMON	Hardness Tester Computest	CPW-T-HS-190.7	0	CPW-T-HS-190.7	Controlled copy
40	COMMON	Results Hardness Test	CPW-T-HS-190.7.1	0	CPW-T-HS-190.7.1	Controlled copy
41	COMMON	Laboratory Specimens Preparation Procedure	CPW-T-HS-190.8	0	CPW-T-HS-190.8	Controlled copy
42	COMMON	Bevelling / Hydrostatic	CPW-T-SJ-140.0	9	CPW-T-SJ-140.0	Controlled copy
43	COMMON	Hydrogen Inspection Check Report	CPW-T-SJ-140.0.1	0	CPW-T-SJ-140.0.1	Controlled copy
44	COMMON	Hydrogen Testing Form	CPW-T-SJ-140.0.2	0	CPW-T-SJ-140.0.2	Controlled copy
45	COMMON	Radiographic, Fluoroscopic and Digital Radiographic Inspection	CPW-T-SJ-165.0	7	CPW-T-SJ-165.0	Controlled copy
46	COMMON	Radiography Inspection Outline	CPW-T-SJ-165.0.1	2	CPW-T-SJ-165.0.1	Controlled copy
47	COMMON	Radiographic Inspection Recording Form	CPW-T-SJ-165.0.2	3	CPW-T-SJ-165.0.2	Controlled copy

NR	ΚΑΤΗΓΟΡΙΑ/ CATEGORY	PROCEDURE/ WORKING INSTRUCTION/ FORM	ΚΩΔΙΚΟΣ/ CODE	REV.	LINK	REMARKS
48	COMMON	Verification of Radiographic Systems Perfomance	CPW-T-SJ-165.0.3	1	CPW-T-SJ-165.0.3	Controlled copy
49	COMMON	Densitometer Calibration	CPW-T-SJ-165.1	1	CPW-T-SJ-165.1	Controlled copy
50	COMMON	Densitometer Calibration Form	CPW-T-SJ-165.1.1	2	CPW-T-SJ-165.1.1	Controlled copy
51	COMMON	Verification of Focal Spot	CPW-T-SJ-165.2	0	CPW-T-SJ-165.2	Controlled copy
52	COMMON	Determination of Focal Spot Size	CPW-T-SJ-165.2.1	0	CPW-T-SJ-165.2.1	Controlled copy
53	COMMON	Radiographic Image Digitalization / CompUted Radiography	CPW-T-SJ-166.0	1	CPW-T-SJ-166.0	Controlled copy
54	COMMON	CR Phantom Weekly Report	CPW-T-SJ-166.0.1	1	CPW-T-SJ-166.0.1	Controlled copy
55	COMMON	CR Phantom IP Report	CPW-T-SJ-166.0.2	1	CPW-T-SJ-166.0.2	Controlled copy
56	COMMON	CR Phantom Yearly Report	CPW-T-SJ-166.0.3	1	CPW-T-SJ-166.0.3	Controlled copy
57	COMMON	Visual/Dimensional Inspection	CPW-T-SJ-170.0	8	CPW-T-SJ-170.0	Controlled copy
58	COMMON	Dimensional Measurements Report	CPW-T-SJ-170.0.1	5	CPW-T-SJ-170.0.1	Controlled copy
59	COMMON	Measuring Devices Accuracy Control Form	CPW-T-SJ-170.0.2	1	CPW-T-SJ-170.0.2	Controlled copy
60	COMMON	Standard Dimensions Registration Report	CPW-T-SJ-170.0.3	1	CPW-T-SJ-170.0.3	Controlled copy
61	COMMON	Illuminance Control Form	CPW-T-SJ-170.0.4	1	CPW-T-SJ-170.0.4	Controlled copy
62	COMMON	Final/ Visual Inspection Form	CPW-T-SJ-170.0.5	0	CPW-T-SJ-170.0.5	Controlled copy
63	COMMON	Visual/Dimensional Inspection	CPW-T-SJ-170.1	0	CPW-T-SJ-170.1	Controlled copy
64	COMMON	Hollow Section Length- Temperaure Recording Form	CPW-T-SJ-170.1.1	0	CPW-T-SJ-170.1.1	Controlled copy
65	COMMON	Robotic Dimensional Inspection At Pipe Ends	CPW-T-SJ-171.0	0	CPW-T-SJ-171.0	Controlled copy
66	COMMON	Weighing-Tallying-Marking	CPW-T-SJ-180.0	13	CPW-T-SJ-180.0	Controlled copy
67	COMMON	Scale's Accuracy Evaluation Form	CPW-T-SJ-180.0.1	2	CPW-T-SJ-180.0.1	Controlled copy
68	COMMON	Local Correction at Pipe Ends	CPW-T-SJ-205.0	0	CPW-T-SJ-205.0	Controlled copy
69	COMMON	Local Correction Recording Form	CPW-T-SJ-205.0.1	0	CPW-T-SJ-205.0.1	Controlled copy
70	COMMON	Repairs	CPW-T-SJ-225.0	6	CPW-T-SJ-225.0	Controlled copy
71	COMMON	Control of Repair Welding Parameters	CPW-T-SJ-225.0.1	2	CPW-T-SJ-225.0.1	Controlled copy
72	COMMON	Control of Reception , Storage and Usage of Welding Consumables	CPW-T-SJ-275.0	5	CPW-T-SJ-275.0	Controlled copy
73	COMMON	Control of Welding Consumables Sheet- Saw	CPW-T-SJ-275.0.1	2	CPW-T-SJ-275.0.1	Controlled copy
74	COMMON	Control of Welding Consumables Sheet- Tack Weld	CPW-T-SJ-275.0.2	2	CPW-T-SJ-275.0.2	Controlled copy
75	COMMON	Control of Repair Welding Consumables Sheet	CPW-T-SJ-275.0.3	2	CPW-T-SJ-275.0.3	Controlled copy
76	COMMON	Welding Consumables Incoming Inspection Sheet	CPW-T-SJ-275.0.4	1	CPW-T-SJ-275.0.4	Controlled copy
77	COMMON	Control of Welding Electrodes Heating	CPW-T-SJ-275.0.5	0	CPW-T-SJ-275.0.5	Controlled copy
78	COMMON	Actions Performed During Pruductio Initiation	CPW-T-SJ-280.0	3	CPW-T-SJ-280.0	Controlled copy
79	COMMON	Request for Metallographic Examination	CPW-T-SJ-280.0.1	1	CPW-T-SJ-280.0.1	Controlled copy
80	COMMON	Ultrasonic Inspection of Hollow Sections	CPW-T-SJ-300.1	0	CPW-T-SJ-300.1	Controlled copy
81	COMMON	Quality Control of Secondary Coating Materials During Receival and Storage	CPW-T-CL-110.0	1	CPW-T-CL-110.0	Controlled copy
82	COMMON	Storage Cntition Report For Secondary Coating Materials	CPW-T-CL-110.0.1	0	CPW-T-CL-110.0.1	Controlled copy
83	COMMON	Receiving Inspection Report for Secondary Coating Materials	CPW-T-CL-110.0.2	0	CPW-T-CL-110.0.2	Controlled copy
84	COMMON	Consumed Coating Materials Report	CPW-T-CL-110.0.3	1	CPW-T-CL-110.0.3	Controlled copy
85	COMMON	Quantities of Consumed Coating Materials	CPW-T-CL-110.0.4	1	CPW-T-CL-110.0.4	Controlled copy
86	COMMON	Consumed Coating Materials Report-Lining	CPW-T-CL-110.0.5	0	CPW-T-CL-110.0.5	Controlled copy
87	COMMON	Consumed Coating Materials Report-Abrasive Materials	CPW-T-CL-110.0.6	0	CPW-T-CL-110.0.6	Controlled copy
88	COMMON	Consumed Coating Materials Report-Varnish	CPW-T-CL-110.0.7	0	CPW-T-CL-110.0.7	Controlled copy
89	COMMON	Consumed Coating Materials Report-Thinner	CPW-T-CL-110.0.8	0	CPW-T-CL-110.0.8	Controlled copy
90	COMMON	Marking/ Tallying	CPW-T-CL-120.0	8	CPW-T-CL-120.0	Controlled copy
91	COMMON	Tally List Of Coated Pipes	CPW-T-CL-120.0.1	0	CPW-T-CL-120.0.1	Controlled copy
92	COMMON	Control of Incoming Piepew at Coating Mill	CPW-T-CL-140.0	0	CPW-T-CL-140.0	Controlled copy
93	COMMON	Repair- Rework of coated pipes	CPW-T-CL-170.0	0	CPW-T-CL-170.0	Controlled copy
94	COMMON	Coating- Lining Repair/ Rework Report	CPW-T-CL-170.0.1	0	CPW-T-CL-170.0.1	Controlled copy
95	COMMON	Raw Material- Receipt, Feeding, Control	CPW-T-HSJ-110.0	1	CPW-T-HSJ-110.0	Controlled copy
96	COMMON	Raw Material Reception Report	CPW-T-HSJ-110.0.1	1	CPW-T-HSJ-110.0.1	Controlled copy
97	COMMON	Coil Consumtion & Inspection Form	CPW-T-HSJ-110.0.2	3	CPW-T-HSJ-110.0.2	Controlled copy
98	COMMON	Coil Consumtion & Inspection Form	CPW-T-HSJ-110.0.3	2	CPW-T-HSJ-110.0.3	Controlled copy
99	COMMON	Plate Consumption and Inspection Form	CPW-T-HSJ-110.0.4	2	CPW-T-HSJ-110.0.4	Controlled copy

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100	COMMON	Magnetic Particle Inspection	CPW-T-HSJ-150.0	2	CPW-T-HSJ-150.0	Controlled copy
101	COMMON	Magnetic Particle Inspection	CPW-T-HSJ-150.0.1	2	CPW-T-HSJ-150.0.1	Controlled copy
102	COMMON	Laboratory Tests for Pipe Production	CPW-T-HSJ-190.0	12	CPW-T-HSJ-190.0	Controlled copy
103	COMMON	Tensile and Hardness Report	CPW-T-HSJ-190.0.1	2	CPW-T-HSJ-190.0.1	Controlled copy
104	COMMON	Chemical Analysis Report	CPW-T-HSJ-190.0.2	2	CPW-T-HSJ-190.0.2	Controlled copy
105	COMMON	Impact Test Report	CPW-T-HSJ-190.0.3	2	CPW-T-HSJ-190.0.3	Controlled copy
106	COMMON	DWTT Report	CPW-T-HSJ-190.0.4	2	CPW-T-HSJ-190.0.4	Controlled copy
107	COMMON	Bend Test Report According to ISO 5173:09	CPW-T-HSJ-190.0.5	4	CPW-T-HSJ-190.0.5	Controlled copy
108	COMMON	Spectrolab Spectrograph	CPW-T-HSJ-190.1	3	CPW-T-HSJ-190.1	Controlled copy EN/ Uncontrolled copy
109	COMMON	Hardness Testing of Metals	CPW-T-HSJ-190.2	2	CPW-T-HSJ-190.2	Controlled copy
110	COMMON	Hardness Test Data Record HFIW (HV -)	CPW-T-HSJ-190.2.1	5	CPW-T-HSJ-190.2.1,2	Controlled copy
111	COMMON	Hardness Test Data Record SSAW (HV -)	CPW-T-HSJ-190.2.2	5		Controlled copy
112	COMMON	Drop Weight Tear Test (EN/GR)	CPW-T-HSJ-190.3	6	CPW-T-HSJ-190.3	Controlled copy
113	COMMON	Drop Weight Tear Test Result	CPW-T-HSJ-190.3.1	4	CPW-T-HSJ-190.3.1	Controlled copy
114	COMMON	Tensile Test	CPW-T-HSJ-190.4	4	CPW-T-HSJ-190.4	Controlled copy
115	COMMON	Tensile Test Data Record	CPW-T-HSJ-190.4.1	10	CPW-T-HSJ-190.4.1	CPW-T-HSJ-190.4.1 Rev.10
116	COMMON	Tensile Test Specimens Preparation Procedure	CPW-T-HSJ-190.5	1	CPW-T-HSJ-190.5	Controlled copy
117	COMMON	Laboratory testing of hollow sections acc.to EN 10219-1	CPW-T-HSJ-190.6	0	CPW-T-HSJ-190.6	Controlled copy
118	COMMON	Hydrogen Induced Cracking (HIC) Test	CPW-T-HSJ-190.9	0	CPW-T-HSJ-190.9	Controlled copy
119	COMMON	HIC Test Report	CPW-T-HSJ-190.9.1	2	CPW-T-HSJ-190.9.1	Controlled copy
120	COMMON	HIC Test Data Record	CPW-T-HSJ-190.9.2	0	CPW-T-HSJ-190.9.2	Controlled copy
121	COMMON	Sulfide Stress Corrosion Cracking (SSCC) Test	CPW-T-HSJ-190.10	0	CPW-T-HSJ-190.10	Controlled copy
122	COMMON	SSCC Test Report	CPW-T-HSJ-190.10.1	2	CPW-T-HSJ-190.10.1	Controlled copy
123	COMMON	SSCC Test Data Record	CPW-T-HSJ-190.10.2	0	CPW-T-HSJ-190.10.2	Controlled copy
124	COMMON	Charpy Impact Test	CPW-T-HSJ-197.0	3	CPW-T-HSJ-197.0	Controlled copy
125	COMMON	Charpy Impact Test Data Record	CPW-T-HSJ-197.0.1	8	CPW-T-HSJ-197.0.1	Controlled copy
126	COMMON	Charpy-V Impact Test Weld Specimen's Preparation Procedure	CPW-T-HSJ-197.1	4	CPW-T-HSJ-197.1	Controlled copy
127	COMMON	Specification and Qualification of Welding Procedures, Welders and Welding Operators	CPW-T-HSJ-220.1	5	CPW-T-HSJ-220.1	Controlled copy
128	COMMON	List of Welders Welding Operators (Certificates - Approvals)	CPW-T-HSJ-220.3	0	CPW-T-HSJ-220.3 REV.0	Controlled copy
129	COMMON	List of Welding Procedures_EN	CPW-T-HSJ-220.4	0	CPW-T-HSJ-220.4 REV.0	Controlled copy
130	COMMON	Welding Procedure Specification (WPS)	CPW-T-HSJ-220.1.1	2	CPW-T-HSJ-220.1.1	Controlled copy
131	COMMON	Welding Procedure Acceptance Record (WPAR)	CPW-T-HSJ-220.1.2	2	CPW-T-HSJ-220.1.2	Controlled copy
132	COMMON	Repair Welding Procedure Specification (R-WPS)	CPW-T-HSJ-220.1.3	3	CPW-T-HSJ-220.1.3	Controlled copy
133	COMMON	Repair Welding Procedure Acceptance Record (R-WPAR)	CPW-T-HSJ-220.1.4	3	CPW-T-HSJ-220.1.4	Controlled copy
134	COMMON	Welder's Qualification Test Certificate	CPW-T-HSJ-220.1.5	3	CPW-T-HSJ-220.1.5	Controlled copy
135	COMMON	Appoval Test Certificate for Welding Procedures, Welders and Welding Operators	CPW-T-HSJ-220.1.6	3	CPW-T-HSJ-220.1.6	Controlled copy
136	COMMON	Welding Operator Peformance Qualification Record (WOPQR)	CPW-T-HSJ-220.1.7	2	CPW-T-HSJ-220.1.7	Controlled copy
137	COMMON	Preliminary Welding Procrdure Specification (pWPS)	CPW-T-HSJ-220.1.8	0	CPW-T-HSJ-220.1.8	Controlled copy
138	COMMON	Preliminary Repair Welding Procedure Specification (pR-WPS)	CPW-T-HSJ-220.1.9	0	CPW-T-HSJ-220.1.9	Controlled copy
139	COMMON	Welder Performance Qualification Record acc. to ASME iX_EN	CPW-T-HSJ-220.1.10	0	CPW-T-HSJ-220.1.10	Controlled copy
140	COMMON	As-Un Repair Welding Parameters Record Sheet	CPW-T-HSJ-220.1.11	0	CPW-T-HSJ-220.1.11	Controlled copy
141	COMMON	List Of Autorized Welding Coordinators	CPW-T-HSJ-220.2	0	CPW-T-HSJ-220.2	Controlled copy
142	COMMON	Qualifications and Certification of NDT Personnel	CPW-T-HSJ-320.0	3	CPW-T-HSJ-320.0	Controlled copy
143	COMMON	NDT Declaration of Competence and Work Authorization	CPW-T-HSJ-320.0.1	1	CPW-T-HSJ-320.0.1	Controlled copy
144	COMMON	Annual Physical Examination Report	CPW-T-HSJ-320.0.2	1	CPW-T-HSJ-320.0.2	Controlled copy
145	COMMON	Ultrasonic Equipment Inspection	CPW-T-HSJ-330.0	2	CPW-T-HSJ-330.0	Controlled copy
146	COMMON	Horizontal Linearity / Sensitivity Check	CPW-T-HSJ-330.0.1	2	CPW-T-HSJ-330.0.1	Controlled copy
147	COMMON	Handling- Storing- Q.C- Loading of Bare and Coated Pipes	CPW-T-HSCL-130.0	0	CPW-T-HSCL-130.0	Controlled copy EN/ Uncontrolled copy
148	COMMON	Pipes inspection Form	CPW-T-HSCL-130.0.1	0	CPW-T-HSCL- 130.0.1	Controlled copy
149	COMMON	Examples of Static Load Calculation	CPW-T-HSCL-130.1	0	CPW-T-HSCL-130.1	Controlled copy
150	COMMON	Personel Training/ Qualification	CPW-T-HSJCL-105.0	3	CPW-T-HSJCL-105.0	Controlled copy
151	COMMON	Personel Training Plan	CPW-T-HSJCL-105.0.1	3	CPW-T-HSJCL-105.0.1	Controlled copy

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152	COMMON	Personel qualification record	CPW-T-HSJCL-105.0.4	2	CPW-T-HSJCL-105.0.4	Controlled copy
153	COMMON	Validation of Processes	CPW-T-HSJCL-150.0	2	CPW-T-HSJCL-150.0	Controlled copy
154	COMMON	Process Validation Report	CPW-T-HSJCL-150.0.1	1	CPW-T-HSJCL-150.0.1	Controlled copy
155	COMMON	Calibration	CPW-T-HSJCL-195.0	4	CPW-T-HSJCL-195.0	Controlled copy
156	COMMON	Calibration Record	CPW-T-HSJCL-195.0.1	2	CPW-T-HSJCL-195.0.1	Controlled copy
157	COMMON	Adjustment Table of Instrument	CPW-T-HSJCL-195.0.2	3	CPW-T-HSJCL-195.0.2	Controlled copy
158	COMMON	Calibration List	CPW-T-HSJCL-195.1	17	CPW-T-HSJCL-195.1	Controlled copy
159	COMMON	Control and Calibration of plant scales	CPW-T-HSJCL-195.2	2	CPW-T-HSJCL-195.2	Controlled copy
160	COMMON	Scale's Accuracy Control Form	CPW-T-HSJCL-195.2.1	1	CPW-T-HSJCL-195.2.1	Controlled copy
161	COMMON	Checking the Calibration Date of the Instrumentation	CPW-T-HSJCL-195.3	2	CPW-T-HSJCL-195.3	Controlled copy
162	COMMON	Dimensional Testing Equipment Calibration	CPW-T-HSJCL-195.4	1	CPW-T-HSJCL-195.4	Controlled copy
163	COMMON	Pressure- Temperature-Humidity Measuring Equipment Calibration	CPW-T-HSJCL-195.5	1	CPW-T-HSJCL-195.5	Controlled copy
164	COMMON	Weights Calibration	CPW-T-HSJCL-195.6	1	CPW-T-HSJCL-195.6	Controlled copy
165	COMMON	NDT Equipment Calibration	CPW-T-HSJCL-195.7	1	CPW-T-HSJCL-195.7	Controlled copy
166	COMMON	Hardness Testing Equipment Calibration	CPW-T-HSJCL-195.8	1	CPW-T-HSJCL-195.8	Controlled copy
167	COMMON	Magnetism Testing Equipment Calibration	CPW-T-HSJCL-195.9	1	CPW-T-HSJCL-195.9	Controlled copy
168	COMMON	Electrical Testing Equipment Calibration	CPW-T-HSJCL-195.10	1	CPW-T-HSJCL-195.10	Controlled copy
169	COMMON	Rest Equipment Calibration	CPW-T-HSJCL-195.11	3	CPW-T-HSJCL-195.11	Controlled copy
170	COMMON	Low-Stress Die Stamping of Pipes	CPW-T-HSJCL-200.1	1	CPW-T-HSJCL-200.1	Controlled copy
171	COMMON	Traceability During Manufacturing And Coating of HFW, SAWH & SAWL Pipes	CPW-T-HSJCL-310.0	4	CPW-T-HSJCL-310.0	Controlled copy
172	COMMON	Mill Test Certificate	CPW-T-HSJCL-310.0.1	0	CPW-T-HSJCL-310.0.1	Controlled copy
173	COMMON	Pipe Marking Inspection	CPW-T-HSJCL-310.0.2	0	CPW-T-HSJCL-310.0.2	Controlled copy
174	COMMON	List Of Authorized CPW NDT Personnel	CPW-T-HSJCL-320.1	33	CPW-T-HSJCL-320.1	Controlled copy
175	COMMON	Vision Examination List	CPW-T-HSJCL-320.2	11	CPW-T-HSJCL-320.2	Controlled copy
NO. 176 - 255 REFER TO THISVI PLANT HFI (ERW) PROCEDURES						
		THISVI PLANT SAW H				
256	SAW H	Coil Consumption Using Barcobe Reading	CPW-T-S-110.1	0	CPW-T-S-110.1	Controlled copy EN/ Uncontrolled copy
257	SAW H	Coils Cross Welding SAWH	CPW-T-S-110.2	0	CPW-T-S-110.2	Controlled copy EN/ Uncontrolled copy
258	SAW H	Printing of Manual Ultasonic Inspection Results	CPW-T-S-145.3	0	CPW-T-S-145.3	Controlled copy
259	SAW H	Liquid Penetrant Inspection	CPW-T-S-155.0	0	CPW-T-S-155.0	Controlled copy EN/ Uncontrolled copy
260	SAW H	Dimensional Inspection	CPW-T-S-170.1	5	CPW-T-S-170.1	Controlled copy
261	SAW H	Measuring Devices Accuracy Control Form	CPW-T-S-170.1.1	0	CPW-T-S-170.1.1	Controlled copy
262	SAW H	Illuminance Inspection Form	CPW-T-S-170.1.2	0	CPW-T-S-170.1.2	Controlled copy
263	SAW H	Standard Dimensions Registration Report	CPW-T-S-170.1.3	0	CPW-T-S-170.1.3	Controlled copy
264	SAW H	SAW Forming - Tack Welding	CPW-T-S-200.0	1	CPW-T-S-200.0	Controlled copy EN/ Uncontrolled copy
265	SAW H	Parameter sheet	CPW-T-S-200.0.1	1	CPW-T-S-200.0.1	Controlled copy
266	SAW H	SPM Parameter sheet	CPW-T-S-200.0.2	0	CPW-T-S-200.0.2	Controlled copy
267	SAW H	Cutting-Numbering-Sampling	CPW-T-S-205.0	1	CPW-T-S-205.0	Controlled copy EN/ Uncontrolled copy
268	SAW H	Special Processes	CPW-T-S-210.0	0	CPW-T-S-210.0	Controlled copy
269	SAW H	Internal Cleaning-Inspecting-Tab welding	CPW-T-S-215.0	3	CPW-T-S-215.0	Controlled copy EN/ Uncontrolled copy REV.1
270	SAW H	Submerged Arc Welding	CPW-T-S-220.0	2	CPW-T-S-220.0	Controlled copy EN/ Uncontrolled copy
271	SAW H	Visual Inspection	CPW-T-S-230.0	1	CPW-T-S-230.0	Controlled copy EN/ Uncontrolled copy REV.1
272	SAW H	SAWH Pipe End Peaking Correction at the Weld	CPW-T-S-230.1	0	CPW-T-S-230.1	Controlled copy
273	SAW H	Pipe Traceability	CPW-T-S-250.0	1	CPW-T-S-250.0	Controlled copy EN/ Uncontrolled copy REV.0
274	SAW H	Ultrasonic Inspection Of SAWH Pipes	CPW-T-S-300.0	2	CPW-T-S-300.0	Controlled copy
275	SAW H	Dimensional Records of UT Calibration Block	CPW-T-SJ-300.0.1	1	CPW-T-SJ-300.0.1	Controlled copy
276	SAW H	Automated UT Equipment Inspection Outline	CPW-T-SJ-300.0.2	1	CPW-T-SJ-300.0.2	Controlled copy
277	SAW H	Automated UT Equipment Calibration Record	CPW-T-SJ-300.0.3	1	CPW-T-SJ-300.0.3	Controlled copy
278	SAW H	Ultrasonic Inspection Recording Form	CPW-T-SJ-300.0.4	3	CPW-T-SJ-300.0.4	Controlled copy
279	SAW H	Manual Ultrasonic Equipment Calibration / Inspection Outline	CPW-T-SJ-300.0.5	1	CPW-T-SJ-300.0.5	Controlled copy
280	PROCESS MANUAL - SAWH	THISVI PLANT PROCESS MANUAL - SAWH	CPW-T-S-000.0	2	CPW-T-S-000.0	Controlled copy
281	PROCESS MANUAL - SAWH	Applicable Product Range	CPW-T-S-000.1	3	CPW-T-S-000.1	Controlled copy

NR	ΚΑΤΗΓΟΡΙΑ/ CATEGORY	PROCEDURE/ WORKING INSTRUCTION/ FORM	ΚΩΔΙΚΟΣ/ CODE	REV.	LINK	REMARKS
282	PROCESS MANUAL - SAWH	SAWH Production Line Flow Chart	CPW-T-S-000.2	2	CPW-T-S-000.2	Controlled copy
283	PROCESS MANUAL - SAWH	Manufacturing Procedure Specification	CPW-T-S-000.3	4	CPW-T-S-000.3	Controlled copy
284	PROCESS MANUAL - SAWH	Inspection and Test Plan	CPW-T-S-000.4	4	CPW-T-S-000.4	Controlled copy
285	PROCESS MANUAL - SAWH	List of Applicable Procedures	CPW-T-S-000.5	3	CPW-T-S-000.5	Controlled copy
		THISVI PLANT SAWL				
286	SAWL	SAWL Pipe Forming and Weld Preparation	CPW-T-J-200.0	3	CPW-T-J-200.0	Controlled copy
287	SAWL	EXPANSION Ratio Recording Form	CPW-T-J-200.0.1	1	CPW-T-J-200.0.1	Controlled copy
288	SAWL	Tab Welding Inspection Form	CPW-T-J-200.0.2	0	CPW-T-J-200.0.2	Controlled copy
289	SAWL	SAWL Pipes Welding	CPW-T-J-220.0	1	CPW-T-J-220.0	Controlled copy
290	SAWL	Welding Parameters Sheet	CPW-T-J-220.0.1	2	CPW-T-J-220.0.1	Controlled copy
291	SAWL	Flux Supply System	CPW-T-J-221.0	0	CPW-T-J-221.0	Controlled copy
292	SAWL	Visual Inspection After Welding	CPW-T-J-230.0	0	CPW-T-J-230.0	Controlled copy
293	SAWL	Monitoring of Pipe Quality and Status	CPW-T-J-250.0	1	CPW-T-J-250.0	Controlled copy
294	SAWL	Production Form- JCO PRESS	CPW-T-J-250.0.4	0	CPW-T-J-250.0.4	Controlled copy
295	SAWL	Production Form- FINISHING PRESS	CPW-T-J-250.0.5	0	CPW-T-J-250.0.5	Controlled copy
296	SAWL	Production Form- TACK WELDING	CPW-T-J-250.0.6	0	CPW-T-J-250.0.6	Controlled copy
297	SAWL	Production Form- INSIDE WELDING	CPW-T-J-250.0.7	0	CPW-T-J-250.0.7	Controlled copy
298	SAWL	Production Form- OUTSIDE WELDING	CPW-T-J-250.0.8	0	CPW-T-J-250.0.8	Controlled copy
299	SAWL	Initial Visual Inspection Form	CPW-T-J-250.0.9	0	CPW-T-J-250.0.9	Controlled copy
300	SAWL	Production Form- Mechanical Expander	CPW-T-J-250.0.15	0	CPW-T-J-250.0.15	Controlled copy
301	SAWL	Tally Sheet	CPW-T-J-250.0.24	0	CPW-T-J-250.0.24	Controlled copy
302	SAWL	Production Form- EDGE MILLING	CPW-T-J-250.0.3.1	2	CPW-T-J-250.0.3.1	Controlled copy
303	SAWL	Production Form- CRIMPING PRESS	CPW-T-J-250.0.3.2	1	CPW-T-J-250.0.3.2	Controlled copy
304	SAWL	SAWL Pipes Ultrasonic Inspection	CPW-T-J-300.0	0	CPW-T-J-300.0	Controlled copy
305	SAWL	Dimensional Records of UT Calibration Block	CPW-T-SJ-300.0.1	2	CPW-T-SJ-300.0.1	Controlled copy
306	SAWL	Automated UT Equipment Inspection Outline	CPW-T-SJ-300.0.2	2	CPW-T-SJ-300.0.2	Controlled copy
307	SAWL	Automated UT Equipment Calibration Record	CPW-T-SJ-300.0.3	2	CPW-T-SJ-300.0.3	Controlled copy
308	SAWL	Ultrasonic Inspection Recording Form	CPW-T-SJ-300.0.4	4	CPW-T-SJ-300.0.4	Controlled copy
309	SAWL	Manual Ultrasonic Equipment Calibration / Inspection Outline	CPW-T-SJ-300.0.5	2	CPW-T-SJ-300.0.5	Controlled copy
310	SAWL	Dead Element Check for Final WSUT Probes	CPW-T-J-300.1	0	CPW-T-J-300.1	Controlled copy
311	SAWL	Dead Elements Check Results	CPW-T-SJ-300.1.1	0	CPW-T-J-300.1.1	Controlled copy
312	SAWL	Evaluation of Performance Characteristics of Paut Final Weld Seam Inspection System	CPW-T-J-300.2	0	CPW-T-J-300.2	Controlled copy
313	SAWL	Linearity Verification Report Form	CPW-T-SJ-300.2.1	0	CPW-T-J-300.2.1	Controlled copy
314	PROCESS MANUAL - SAWL	**THISVI PLANT PROCESS MANUAL - SAWL**	CPW-T-J-000.0	0	CPW-T-J-000.0	Controlled copy
315	PROCESS MANUAL - SAWL	Applicable Product Range	CPW-T-J-000.1	0	CPW-T-J-000.1	Controlled copy
316	PROCESS MANUAL - SAWL	SAWH Production Line Flow Chart	CPW-T-J-000.2	0	CPW-T-J-000.2	Controlled copy
317	PROCESS MANUAL - SAWL	Manufacturing Procedure Specification	CPW-T-J-000.3	1	CPW-T-J-000.3	Controlled copy
318	PROCESS MANUAL - SAWL	Inspection and Test Plan	CPW-T-J-000.4	0	CPW-T-J-000.4	Controlled copy
		THISVI PLANT COATING				
319	COATING	Set Up Coating Line / Start of Production	CPW-T-C-100.0	2	CPW-T-C-100.0	Controlled copy
320	COATING	Coating Parameter Sheet	CPW-T-C-100.0.1	1	CPW-T-C-100.0.1	Controlled copy
321	COATING	Set Up of Coating Machines	CPW-T-C-100.1	0	CPW-T-C-100.1	Controlled copy
322	COATING	Cleaning - Preheating- Blasting	CPW-T-C-145.0	0	CPW-T-C-145.0	Controlled copy
323	COATING	Dust and Roughness Control of Blasted Pipe Surface	CPW-T-C-145.0.1	0	CPW-T-C-145.0.1	Controlled copy
324	COATING	After Grinding Measurement of Remaining Pipe Wall Thickness	CPW-T-C-145.0.2	0	CPW-T-C-145.0.2	Controlled copy
325	COATING	Quantitative Method for Measurement of Chloride Ions on Pipe Surface	CPW-T-C-145.1	0	CPW-T-C-145.1	Controlled copy
326	COATING	Assessement of Pipe Surface Cleanliness (Adhesive Tape Method)	CPW-T-C-145.2	0	CPW-T-C-145.2	Controlled copy
327	COATING	Measurement of Blasting Material Conductivity	CPW-T-C-145.3	0	CPW-T-C-145.3	Controlled copy
328	COATING	External Blasting of Pipes	CPW-T-C-145.4	0	CPW-T-C-145.4	Controlled copy
329	COATING	Cleaning of Pipew from Grease, Oil, Salt and Other Contaminants	CPW-T-C-145.5	0	CPW-T-C-145.5	Controlled copy
330	COATING	Chemical Pretreatment - Induction Heating	CPW-T-C-150.0	2	CPW-T-C-150.0	Controlled copy EN/ Uncontrolled copy REV.0
331	COATING	Induction Heating of Pipes	CPW-T-C-150.1	0	CPW-T-C-150.1	Controlled copy

NR	ΚΑΤΗΓΟΡΙΑ/ CATEGORY	PROCEDURE/ WORKING INSTRUCTION/ FORM	ΚΩΔΙΚΟΣ/ CODE	REV.	LINK	REMARKS
332	COATING	External Coating	CPW-T-C-155.0	0	CPW-T-C-155.0	Controlled copy
333	COATING	Quenching- Holiday Inspection- Cleaning of Pipe Ends	CPW-T-C-160.0	1	CPW-T-C-160.0	Controlled copy EN/ Uncontrolled copy REV.0
334	COATING	Holiday Calibration Pipe Characteristics	CPW-T-C-160.0.1	0	CPW-T-C-160.0.1	Controlled copy
335	COATING	Online Quality Control Tests of The External Pipe Coating	CPW-T-C-165.0	0	CPW-T-C-165.0	Controlled copy
336	COATING	Coating Inspection Test Report	CPW-T-C-165.0.1	0	CPW-T-C-165.0.1	Controlled copy
337	COATING	Coating Thickness Measurements Report	CPW-T-C-165.0.2	0	CPW-T-C-165.0.2	Controlled copy
338	COATING	QC Gause Calibration Sheet	CPW-T-C-165.0.3	0	CPW-T-C-165.0.3	Controlled copy
339	COATING	Report of Coating Tests Sampling	CPW-T-C-165.0.4	0	CPW-T-C-165.0.4	Controlled copy
340	COATING	Method of constant rate coating peeling - Use of Coesfeld - MTT machines	CPW-T-C-165.1	0	CPW-T-C-165.1	Controlled copy
341	COATING	Check of FBE Methyl Ethyl Ketone Method	CPW-T-C-165.2	0	CPW-T-C-165.2	Controlled copy
342	COATING	Coating Thickness Measurement	CPW-T-C-165.3	0	CPW-T-C-165.3	Controlled copy
343	COATING	Repair- Rework of PE/PP coated pipes	CPW-T-C-170.1	0	CPW-T-C-170.1	Controlled copy
344	COATING	Repair- Rework of FBE coated pipes	CPW-T-C-170.2	0	CPW-T-C-170.2	Controlled copy
345	COATING	Laboratory tests	CPW-T-C-180.0	0	CPW-T-C-180.0	Controlled copy
346	COATING	Differential scanning calorimeter DS C-50	CPW-T-C-180.1	1	CPW-T-C-180.1	Controlled copy
347	COATING	Melt flow index tester (MFI)	CPW-T-C-180.2	1	CPW-T-C-180.2	Controlled copy
348	COATING	Melt Flow Rate According to Customer's Specification	CPW-T-C-180.2.1	0	CPW-T-C-180.2.1	Controlled copy
349	COATING	Penetrometer for the Determination of the Penetration Resistance of Coating	CPW-T-C-180.3	1	CPW-T-C-180.3	Controlled copy
350	COATING	Indentation Test Report According to Customer's Specification	CPW-T-C-180.3.1	0	CPW-T-C-180.3.1	Controlled copy
351	COATING	Polymer Tensile	CPW-T-C-180.4	2	CPW-T-C-180.4	Controlled copy
352	COATING	Δελτίο Δοκίμης Εφελκυσμού Πολύμερων Σύμφωνα με Προδιαγραφη Πελατη	CPW-T-C-180.4.1	0	CPW-T-C-180.4.1	Controlled copy
353	COATING	BUCHOLZ identification hardness tester	CPW-T-C-180.5	0	CPW-T-C-180.5	Controlled copy
354	COATING	Precision electronic balance (ADAM ADP210)	CPW-T-C-180.6	0	CPW-T-C-180.6	Controlled copy
355	COATING	Flexibility of the Coating	CPW-T-C-180.7	2	CPW-T-C-180.7	Controlled copy
356	COATING	Bend Test Report	CPW-T-C-180.7.0.1	2	CPW-T-C-180.7.0.1	Controlled copy
357	COATING	Cathodic Disbondment of the Coating	CPW-T-C-180.8	4	CPW-T-C-180.8	Controlled copy
358	COATING	Cathodic Disbondment Test Report	CPW-T-C-180.8.1	1	CPW-T-C-180.8.1	Controlled copy
359	COATING	Cathodic Disbondment Test Conditions Record	CPW-T-C-180.8.2	1	CPW-T-C-180.8.2	Controlled copy
360	COATING	Hot water soak	CPW-T-C-180.9	2	CPW-T-C-180.9	Controlled copy
361	COATING	Hot water resistance test	CPW-T-C-180.9.1	1	CPW-T-C-180.9.1	Controlled copy
362	COATING	Porosity of the Coating	CPW-T-C-180.10	1	CPW-T-C-180.10	Controlled copy
363	COATING	Porosity and Contamination Test Report	CPW-T-C-180.10.0.1	0	CPW-T-C-180.10.0.1	Controlled copy
364	COATING	Gel Time	CPW-T-C-180.11	0	CPW-T-C-180.11	Controlled copy
365	COATING	Report Gel Time	CPW-T-C-180.11.0.1	0	CPW-T-C-180.11.0.1	Controlled copy
366	COATING	Κοκκομετρική Σύσταση Πούδρας Επένδυσης	CPW-T-C-180.12	0	CPW-T-C-180.12	Controlled copy
367	COATING	Δελτίο Κοκκομετρικής Ανάλυσης Πούδρας Επένδυσης Σύμφωνα με Προδιαγραφή Πελάτη	CPW-T-C-180.12.0.1	0	CPW-T-C-180.12.0.1	Controlled copy
368	COATING	Abrasion Resistance of Organic Coating by the Taber Abraser	CPW-T-C-180.13	0	CPW-T-C-180.13	Controlled copy
369	COATING	Δελτίο Καταγραφής Αποτέλεσμα Abrasion Resistance	CPW-T-C-180.13.1	0	CPW-T-C-180.13.1	Controlled copy
370	COATING	Volumetric Determination of 'OAKITE 33' concentration	CPW-T-C-180.14	0	CPW-T-C-180.14	Controlled copy
371	COATING	Concentration Test Report of OAKIT 33 Solution	CPW-T-C-180.14.1	0	CPW-T-C-180.14.1	Controlled copy
372	COATING	Density Determination of Polymers	CPW-T-C-180.15	0	CPW-T-C-180.15	Controlled copy
373	COATING	Density Determination Test Report	CPW-T-C-180.15.1	0	CPW-T-C-180.15.1	Controlled copy
374	COATING	pH MEASUREMENT	CPW-T-C-180.16	0	CPW-T-C-180.16	Controlled copy
375	COATING	Solution's pH Measurement Report	CPW-T-C-180.16.1	0	CPW-T-C-180.16.1	Controlled copy
376	PROCESS MANUAL - COATING	**THISVI PLANT PROCESS MANUAL - COATING**	CPW-T-C-000.0	2	CPW-T-C-000.0	Controlled copy
377	PROCESS MANUAL - COATING	Applicable Product Range	CPW-T-C-000.1	1	CPW-T-C-000.1	Controlled copy
378	PROCESS MANUAL - COATING	Process Line Flow Chart for PE Coating	CPW-T-C-000.2	2	CPW-T-C-000.2	Controlled copy
379	PROCESS MANUAL - COATING	Process Line Flow Chart for FBE Coating	CPW-T-C-000.3	2	CPW-T-C-000.3	Controlled copy
380	PROCESS MANUAL - COATING	Manufacturing Procedure Specification for PE Coating	CPW-T-C-000.4	2	CPW-T-C-000.4	Controlled copy
381	PROCESS MANUAL - COATING	Manufacturing Procedure Specification for Fusion Bonded Epoxy (FBE) Coating	CPW-T-C-000.5	2	CPW-T-C-000.5	Controlled copy
382	PROCESS MANUAL - COATING	Inspection and Test Plan for PE Coating	CPW-T-C-000.6	2	CPW-T-C-000.6	Controlled copy
383	PROCESS MANUAL - COATING	Inspection and Test Plan for FBE Coating	CPW-T-C-000.7	2	CPW-T-C-000.7	Controlled copy

NR	ΚΑΤΗΓΟΡΙΑ/ CATEGORY	PROCEDURE/ WORKING INSTRUCTION/ FORM	ΚΩΔΙΚΟΣ/ CODE	REV.	LINK	REMARKS
384	PROCESS MANUAL - COATING	List of Applicable Procedures	CPW-T-C-000.8	2	CPW-T-C-000.8	Controlled copy
385	PROCESS MANUAL - COATING	Manufacturing Procedure Specification for Dual FBE (ARO) Coating	CPW-T-C-000.9	1	CPW-T-C-000.9	Controlled copy
386	PROCESS MANUAL - COATING	Inspection And Test Plan for PP Coating	CPW-T-C-000.10	1	CPW-T-C-000.10	Controlled copy
387	PROCESS MANUAL - COATING	Inspection And Test Plan for Dual FBE (ARO) Coating	CPW-T-C-000.11	1	CPW-T-C-000.11	Controlled copy
388	PROCESS MANUAL - COATING	Process Line Flow Chart for PP Coating	CPW-T-C-000.12	0	CPW-T-C-000.12	Controlled copy
389	PROCESS MANUAL - COATING	Process Line Flow Chart for Dual FBE (ARO) Coating	CPW-T-C-000.13	0	CPW-T-C-000.13	Controlled copy
390	PROCESS MANUAL - COATING	Process Line Layout for PE Coating	CPW-T-C-000.14	0	CPW-T-C-000.14	Controlled copy
391	PROCESS MANUAL - COATING	Process Line Layout for PP Coating	CPW-T-C-000.15	0	CPW-T-C-000.15	Controlled copy
392	PROCESS MANUAL - COATING	Process Line Layout for FBE Coating	CPW-T-C-000.16	0	CPW-T-C-000.16	Controlled copy
393	PROCESS MANUAL - COATING	Process Line Layout for Dual FBE (ARO) Coating	CPW-T-C-000.17	0	CPW-T-C-000.17	Controlled copy
394	PROCESS MANUAL - COATING	Manufacturing Procedure Specification for PP Coating	CPW-T-C-000.18	0	CPW-T-C-000.18	Controlled copy
		THISVI PLANT LINING				
395	LINNING	Set up Production Line	CPW-T-L-100.0	0	CPW-T-L-100.0	Controlled copy
396	LINNING	Order details	CPW-T-L-100.0.1	0	CPW-T-L-100.0.1	Controlled copy
397	LINNING	Internal Shotblasting-Inspection	CPW-T-L-140.0	0	CPW-T-L-140.0	Controlled copy
398	LINNING	Internal Lining	CPW-T-L-150.0	0	CPW-T-L-150.0	Controlled copy
399	LINNING	Internal Coating Control	CPW-T-L-150.1	0	CPW-T-L-150.1	Controlled copy
400	LINNING	Calibration of Mixing Ratio Sensors	CPW-T-L-150.1.1	0	CPW-T-L-150.1.1	Controlled copy
401	LINNING	Lining Inspection	CPW-T-L-160.0	0	CPW-T-L-160.0	Controlled copy
402	LINNING	Repair - Rework of lined pipes	CPW-T-L-170.3	0	CPW-T-L-170.3	Controlled copy
403	PROCESS MANUAL - LINING	**THISVI PLANT PROCESS MANUAL - LINING**	CPW-T-L-000.0	1	CPW-T-L-000.0	Controlled copy
404	PROCESS MANUAL - LINING	Applicable Product Range	CPW-T-L-000.1	1	CPW-T-L-000.1	Controlled copy
405	PROCESS MANUAL - LINING	Process Line Flow Chart for Lining Line	CPW-T-L-000.2	1	CPW-T-L.000.2	Controlled copy
406	PROCESS MANUAL - LINING	Manufacturing Procedure Specification Lining Line	CPW-T-L-000.3	1	CPW-T-L-000.3	Controlled copy
407	PROCESS MANUAL - LINING	Lining Line Quality Plan	CPW-T-L-000.4	1	CPW-T-L-000.4	Controlled copy
408	PROCESS MANUAL - LINING	Procedures List	CPW-T-L-000.5	1	CPW-T-L-000.5	Controlled copy
		SYSTEM				
409	SYSTEM	**QMS MANUAL**		12	QMS Manual	Controlled Copy
410	SYSTEM	Organizational Structure	CPW-B-X-050.0	4	CPW-B-X-050.0	Controlled Copy
411	SYSTEM	Responsibilities, Accountabilities and Authorities of Organizational Chart Working Positions	CPW-B-X-050.1	0	CPW-B-X-050.1	Controlled Copy
412	SYSTEM	Company Organization Chart	CPW-B-X-050.0.1	3	CPW-B-X-050.0.1	Controlled Copy
413	SYSTEM	Company Organization Chart (with personnel names)	CPW-B-X-050.0.2	3	CPW-B-X-050.0.2	Controlled Copy
414	SYSTEM	Quality Policy	CPW-B-X-055.0	4	CPW-B-X-055.0 REV.4	Controlled Copy
415	SYSTEM	Control of Documents and records	CPW-B-X-100.0	10	CPW-B-X-100.0	Controlled Copy
416	SYSTEM	Distribution Register	CPW-B-X-100.0.1	0	CPW-B-X-100.0.1	Controlled Copy
417	SYSTEM	Document Transmittal Form	CPW-B-X-100.0.2	0	CPW-B-X-100.0.2	Controlled Copy
418	SYSTEM	Title In English	CPW-B-X-100.0.3	4	CPW-B-X-100.0.3	Controlled Copy
419	SYSTEM	Project Document Register Form (PDRF)	CPW-B-X-100.0.4	0	CPW-B-X-100.0.4	Controlled Copy
420	SYSTEM	Internal Audit	CPW-B-X-105.0	4	CPW-B-X-105.0	Controlled Copy
421	SYSTEM	Internal Audit Schedule	CPW-B-X-105.0.1	5	CPW-B-X-105.0.1	Controlled Copy
422	SYSTEM	Internal Audit Report Quality System	CPW-B-X-105.0.2	1	CPW-B-X-105.0.2	Controlled Copy
423	SYSTEM	Internal Audit Report Product Realization	CPW-B-X-105.0.3	1	CPW-B-X-105.0.3	Controlled Copy
424	SYSTEM	Internal Audit Report On Site Audit	CPW-B-X-105.0.4	2	CPW-B-X-105.0.4	Controlled Copy
425	SYSTEM	List of Approved Internal Auditors	CPW-B-X-105.0.5	0	CPW-B-X-105.0.5	Controlled Copy
426	SYSTEM	External Audit	CPW-B-X-106.0	0	CPW-B-X-106.0	Controlled Copy
427	SYSTEM	External Audit Scheduling	CPW-B-X-106.0.1	0	CPW-B-X-106.0.1	Controlled Copy
428	SYSTEM	External Audit Report	CPW-B-X-106.0.2	2	CPW-B-X-106.0.2	Controlled Copy
429	SYSTEM	Quality Objectives / Continuous Impovement	CPW-B-X-110.0	4	CPW-B-X-110.0	Controlled Copy
430	SYSTEM	Monitoring of Performance and Objectives	CPW-B-X-110.0.1	1	CPW-B-X-110.0.1	Controlled Copy
431	SYSTEM	Analysis of Data- QMS Performance Monitoring	CPW-B-X-111.0	0	CPW-B-X-111.0	Controlled Copy
432	SYSTEM	Quality Score Calculation	CPW-B-X-111.1	0	CPW-B-X-111.1	Controlled Copy
433	SYSTEM	Internal Communication	CPW-B-X-115.0	2	CPW-B-X-115.0	Controlled Copy

CORINTH PIPEWORKS

NR	ΚΑΤΗΓΟΡΙΑ/ CATEGORY	PROCEDURE/ WORKING INSTRUCTION/ FORM	ΚΩΔΙΚΟΣ/ CODE	REV.	LINK	REMARKS
434	SYSTEM	Management Review	CPW-B-X-120.0	5	CPW-B-X-120.0	Controlled Copy
435	SYSTEM	Non Conformances-Corrective and Preventive Actions	CPW-B-X-130.0	5	CPW-B-X-130.0	Controlled Copy
436	SYSTEM	Corrective/ Preventive Action Request	CPW-B-X-130.0.1	3	CPW-B-X-130.0.1	Controlled Copy
437	SYSTEM	Table of Requested Corrective (CAR) / Preventive (PAR) Actions	CPW-B-X-130.0.2	3	CPW-B-X-130 0 2	Controlled Copy
438	SYSTEM	Addressing Nonconforming Product	CPW-B-X-135.0	2	CPW-B-X-135.0	Controlled Copy
439	SYSTEM	Concession Request	CPW-B-X-135.0.1	0	CPW-B-X-135.0.1	Controlled Copy
440	SYSTEM	Non Conforming Product/ Recal Notice	CPW-B-X-135.0.2	0	CPW-B-X-135.0.2	Controlled Copy
441	SYSTEM	QMS Risk Assessment and Management with Contingency Planning	CPW-B-X-140.0	2	CPW-B-X-140.0	Controlled Copy
442	SYSTEM	Operational Risk Management Plan	CPW-B-X-140.0.1	1	CPW-B-X-140.0.1	Controlled Copy
443	SYSTEM	QMS Management of change	CPW-B-X-145.0	1	CPW-B-X-145.0	Controlled Copy
444	SYSTEM	MOC Register	CPW-B-X-145.0.1	0	CPW-B-X-145.0.1	Controlled Copy
445	SYSTEM	MOC Form	CPW-B-X-145.0.2	0	CPW-B-X-145.0.2	Controlled Copy
		COMMERCIAL				
446	COMMERCIAL	Order management	CPW-B-X-200.0	0	CPW-B-X-200.0	Controlled Copy
447	COMMERCIAL	Pre-selection-Production Ability-Inquiry Correlation	CPW-B-X-202.0	0	CPW-B-X-202.0	Controlled Copy
448	COMMERCIAL	Pre-selection-Production Ability-Inquiry Correlation (GRAPH)	CPW-B-X-202.0.1	0	CPW-B-X-202.0.1	Controlled Copy
449	COMMERCIAL	Commercial Review of Inquiry	CPW-B-X-205.0	0	CPW-B-X-205.0	Controlled Copy
450	COMMERCIAL	Commercial Review of Inquiry (GRAPH)	CPW-B-X-205.0.1	0	CPW-B-X-205.0.1	Controlled Copy
451	COMMERCIAL	Offer preparation- submittal - follow up	CPW-B-X-220.0	0	CPW-B-X-220.0	Controlled Copy
452	COMMERCIAL	Quotation Preparation- Submission-Follow up (GRAPH)	CPW-B-X-220.0.1	0	CPW-B-X-220.0.1	Controlled Copy
453	COMMERCIAL	Order Review, Acceptance & Order Entry	CPW-B-X-225.0	0	CPW-B-X-225.0	Controlled Copy
454	COMMERCIAL	Order Review (commercial)	CPW-B-X-225.0.1	0	CPW-B-X-225.0.1	Controlled Copy
455	COMMERCIAL	HRC Order Form	CPW-B-X-225.0.4	3	CPW-B-X-225.0.4	Controlled Copy
456	COMMERCIAL	Processing - Handover - financial issues of order management	CPW-B-X-235.0	1	CPW-B-X-235.0	Controlled Copy
457	COMMERCIAL	Monitoring of customer satisfaction and claim handling	CPW-B-X-240.0	3	CPW-B-X-240.0	Controlled Copy
458	COMMERCIAL	Customer Satisfaction Survey	CPW-B-X-240.0.1	4	CPW-B-X-240.0.1	Controlled Copy
459	COMMERCIAL	Technical Review of Customer Inquiry	CPW-B-X-255.0	2	CPW-B-X-255.0	Controlled Copy
460	COMMERCIAL	Technical Comments	CPW-B-X-255.0.1	2	CPW-B-X-255.0.1	Controlled Copy
461	COMMERCIAL	Inquiry review -PE/PP coating	CPW-B-X-255.0.3	1	CPW-B-X-255.0.3	Controlled Copy
462	COMMERCIAL	Inquiry review -FBE/DFBE coating	CPW-B-X-255.0.4	0	CPW-B-X-255.0.4	Controlled Copy
463	COMMERCIAL	Inquiry Review- Internal Coating (Lining) Application	CPW-B-X-255.0.5	0	CPW-B-X-255.0.5	Controlled Copy
464	COMMERCIAL	Order Review Form	CPW-B-X-255.0.6	0	CPW-B-X-255.0.6	Controlled Copy
465	COMMERCIAL	Specification data base	CPW-B-X-260.0	1	CPW-B-X-260.0	Controlled Copy
466	COMMERCIAL	Standards List	CPW-B-X-260.1	0	CPW-B-X-260.1	Controlled Copy
467	COMMERCIAL	Purchasing	CPW-B-X-270.0	0	CPW-B-X-270.0	Controlled Copy
468	COMMERCIAL	SAP Manual - Material Codes-Applications-Purchase order	CPW-B-X-270.1	0	CPW-B-X-270.1	Controlled Copy
469	COMMERCIAL	Critical Purchase - Steel Procurement	CPW-B-X-271.0	2	CPW-B-X-271.0	Controlled Copy
470	COMMERCIAL	Steel Approved Supplier List	CPW-B-X-271.0.1	4	CPW-B-X-271.0.1	Controlled Copy
471	COMMERCIAL	Steel Order Form	CPW-B-X-271.0.2	0	CPW-B-X-271.0.2	Controlled Copy
472	COMMERCIAL	Incident Report	CPW-B-X-271.0.3	1	CPW-B-X-271.0.3	Controlled Copy
473	COMMERCIAL	Steel Supplier Questionnaire	CPW-B-X-271.0.4	0	CPW-B-X-271.0.4	Controlled Copy
474	COMMERCIAL	Supplier Audit Report	CPW-B-X-271.0.5	1	CPW-B-X-271.0.5	Controlled Copy
475	COMMERCIAL	Supplier Audit Report	CPW-B-X-271.0.6	0	CPW-B-X-271.0.6	Controlled Copy
476	COMMERCIAL	Steel Order Form for Hollow Sections	CPW-B-X-271.0.7	0	CPW-B-X-271.0.7	Controlled Copy
477	COMMERCIAL	Thickness Tables for Coil Order for Hollow Section Production	CPW-B-X-271.1	0	CPW-B-X-271.1	Controlled Copy
478	COMMERCIAL	Noncritical Purchases	CPW-B-X-272.0	2	CPW-B-X-272.0	Controlled Copy
479	COMMERCIAL	Approved Supplier/ Subcontractor List	CPW-B-X-272.0.1	13	CPW-B-X-272.0.1	Controlled Copy
480	COMMERCIAL	Vendor / Subcontractor Evaluation Questionnaire	CPW-B-X-272.0.2	0	CPW-B-X-272.0.2	Controlled Copy
481	COMMERCIAL	Supplier / Subcontractor Evaluation	CPW-B-X-272.0.3	1	CPW-B-X-272.0.3	Controlled Copy
482	COMMERCIAL	Coating Material Selection	CPW-B-X-273.0	3	CPW-B-X-273.0	Controlled Copy
483	COMMERCIAL	Approved Coating Systems List	CPW-B-X-273.0.1	9	CPW-B-X-273.0.1	Controlled Copy
484	COMMERCIAL	List of Approved Coating Secondary Materials	CPW-B-X-273.0.2	3	CPW-B-X-273.0.2	Controlled Copy

NR	ΚΑΤΗΓΟΡΙΑ/ CATEGORY	PROCEDURE/ WORKING INSTRUCTION/ FORM	ΚΩΔΙΚΟΣ/ CODE	REV.	LINK	REMARKS
485	COMMERCIAL	Trials	CPW-B-X-274.0	0	CPW-B-X-274.0	Controlled Copy
486	COMMERCIAL	Application for trials evaluation	CPW-B-X-274.0.1	0	CPW-B-X-274.0.1	Controlled Copy
487	COMMERCIAL	Archiving of contract	CPW-B-X-275.0	0	CPW-B-X-275.0	Controlled Copy
488	COMMERCIAL	Customer Property Preservation/ Stock Periodic Assessment	CPW-B-X-290.0	2	CPW-B-X-290.0	Controlled Copy
489	COMMERCIAL	Order execution management and external communication	CPW-B-X-300.0	1	CPW-B-X-300.0	Controlled Copy
		LOGISTICS				
490	LOGISTICS	Chartering	CPW-B-X-400.0	1	CPW-B-X-400.0	Controlled Copy
491	LOGISTICS	Chartering graph	CPW-B-X-400.0.1	0	CPW-B-X-400.0.1	Controlled Copy
492	LOGISTICS	Shipping Inquiry form	CPW-B-X-400.0.2	1	CPW-B-X-400.0.2	Controlled Copy
493	LOGISTICS	Brookers Inquiry form	CPW-B-X-400.0.3	0	CPW-B-X-400.0.3	Controlled Copy
494	LOGISTICS	Vessels evaluation Form	CPW-B-X-400.0.4	0	CPW-B-X-400.0.4	Controlled Copy
495	LOGISTICS	Inland evaluation Form	CPW-B-X-400.0.5	1	CPW-B-X-400.0.5	Controlled Copy
496	LOGISTICS	Freight indication form	CPW-B-X-400.0.6	1	CPW-B-X-400.0.6	Controlled Copy
497	LOGISTICS	Delivery of goods abroad from Thisvi Plant	CPW-B-X-705.1	1	CPW-B-X-705.1	Controlled Copy
498	LOGISTICS	Proforma Invoice	CPW-B-X-705.1.1	1	CPW-B-X-705.1	Controlled Copy
		NO. 499 - 517 REFERES TO ADMINISTRATION & HUMAN RESOURCES				
		CORPORATE SOCIAL RESPONSIBILITY				
518	CORPORATE SOCIAL RESPONSIBILITY	Social Action and Collaboration	CPW-B-X-710.0	0	CPW-B-X-710.0	Controlled Copy
519	CORPORATE SOCIAL RESPONSIBILITY	Respect for Human Rights in the workplace	CPW-B-X-720.0	0	CPW-B-X-720.0	Controlled Copy
		THISVI PLANT PLANNING				
520	PLANNING	Production Planning	CPW-B-X-900.0	3	CPW-B-X-900.0	Controlled Copy
		Production Schedule	CPW-B-X-900.0.1	0	CPW-B-X-900.0.1	Controlled Copy

CORINTH PIPEWORKS S.A.