



Quality management input comprises the standard requirements from API Q1 9th edition and ISO 9001:2015 which are deployed by our organization to achieve customer satisfaction through process control.

Environmental input comprises the standard requirements from ISO 14001:2015 which provides our organization with a framework to help protect the environment and respond to changing environmental conditions.

Occupational health and safety management input meets the requirements of ISO 45001:2018 to encourage a safe and healthy workplace and

EHQMS INTEGRATED SYSTEM MANUAL

WGE-EHQMS-M-001





EHQMS Integrated System Manual

WGE-EHQMS-M-001

APPROVAL

The signatures below certify that this management system manual has been authorized and demonstrates that the signatories are aware of all the requirements contained herein and are committed to ensuring their provision.

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AMENDMENT RECORD

This management system manual is reviewed to ensure its continuing relevance to the systems and process that it describes. A record of contextual additions or omissions is given below:

Page No.	Context	Revision	Date
All	Updating Whole Manual	00	18- Jan.-2025

COMPANY PROPRIETARY INFORMATION

The electronic version of this document is the latest revision. It is the responsibility of the individual to ensure that any paper material is the current revision. The printed version of this manual is uncontrolled, except when provided with a document reference number and revision in the field below:

Document Ref. WGE-EHQMS-M-001 Rev 04

Uncontrolled Copy Controlled Copy Date 18- Jan.-2025



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1 Introduction

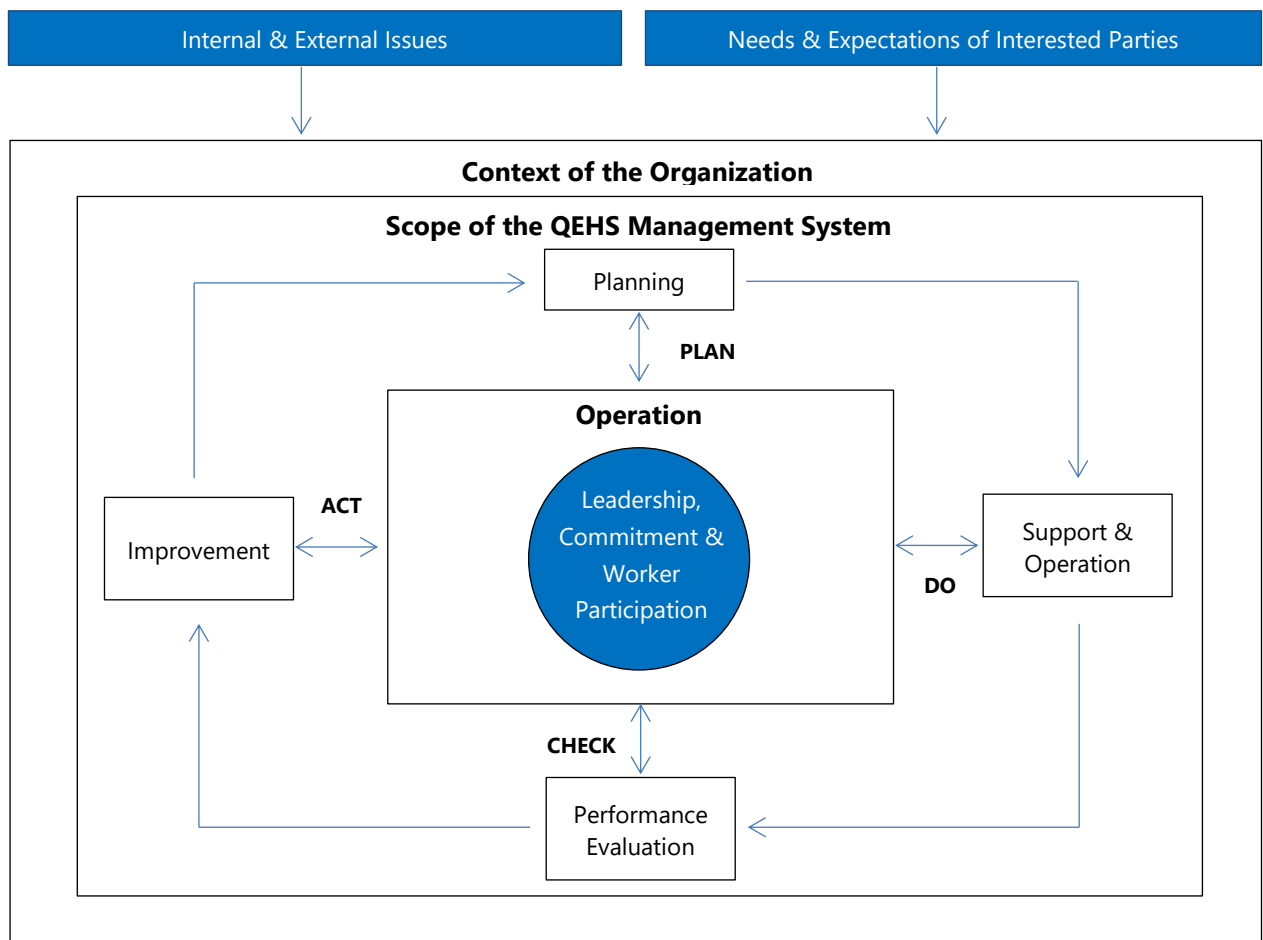
WGE has developed and implemented an integrated Quality, Environmental and Occupational Health & Safety (QEHS) Management System, which uses API Q1 9th edition, ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018 as framework for our organization to document and improve our operational practices in order to better satisfy the needs and expectations of our workers, customers, stakeholders and interested parties.

This integrated system manual is used to familiarise our workers, customers, interested parties, or individuals with the controls that have been implemented and to assure them that the integrity of our management system is maintained and is focused on meeting its intended outcomes.

This manual also describes the structure and interactions of our management system, delineates authorities, inter relationships and responsibilities of personnel who operate within the boundaries of WGE's QEHS management system, whilst providing reference to the procedures, forms, reports, process and activities that comprise it.

The Figure below illustrates our methodology for the development of an integrated management system, which uses the iterative Plan, Do, Check, Act cycle to implement the process approach that helps deliver management system objectives, stakeholder requirements and customer satisfaction.

Figure 1: QEHS Management System Process Model





Our integrated QEHS management system addresses and supports our wider strategies of [Inspection Services of Tubular, NDT, Lifting, Hoisting Equipment and Rig Inspection of Various Categories; Provision of Fabrication and Welding, Manufacturing and Repair of Rotary Shouldered, Casing and Tubing Connections.](#)

The following table identifies any API Q1 9th edition and ISO 9001:2015 requirements, from Section 8.0, that are not applicable to our organization as well as providing a brief narrative to justify their omission from the scope of the QEHS management system:

Clause	Justification for Exclusion
API 7-1 Design and development	Monogram covers only threading
API 5CT Design and development	Monogram covers only threading

2 Quality Management Principles

WGE has adopted and realizes the benefits of the API Q1 9th edition and ISO 9000:2015 quality management principles into our daily activities. The intent of the quality management principles is to provide a foundation to continually improve upon our performance. Subsequent sections of this management system manual demonstrate our commitments of the following principles:

1. Customer focus;
2. Leadership;
3. Engagement of our people;
4. Process approach;
5. Improvement;
6. Evidence-based decision making;
7. Relationship management.

3 References & Definitions

In addition to API Q1 9th edition, ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018, we also make reference to other relevant national or international standards as well as customer specifications appropriate to our context.

Standard	Title	Description
BS EN ISO 9000:2015	Quality management systems	Fundamentals and vocabulary
BS EN ISO 9004:2000	Quality management systems	Guidelines for performance improvements
BS EN ISO 19011:2011	Auditing management systems	Guidelines for auditing
BS EN ISO 14004:2016	Environmental management systems	Guidelines for implementation

This document does not introduce any new definitions but rather relies on the following:

1. Definitions typically used by our customers, stakeholders or marketplace;
2. Terms typically used in standards and regulations as they relate to our products and services;
3. Standard business terminology;
4. Terms and vocabulary commonly used in quality and [engineering, construction, manufacturing](#) practices.

4 About Our Organization

4.1 Organizational Context

WGE is committed to defining our position in the marketplace and understanding how relevant factors arising from legal, political, economic, social and technological issues influence our strategic direction and our organizational context. To ensure that our QEHS management system is aligned with our strategy, whilst taking account of relevant internal and external factors; we collate and analyze pertinent information in order to determine the potential impact on our context and subsequent business strategy.

Figure 2: Examples of Internal & External Influences



WGE identifies, analyzes, monitors and reviews factors that may affect our ability to satisfy our customers and stakeholders, as well as; factors that may adversely affect the stability of our processes and the integrity of the management system. Broadly, these issues are defined as:

Internal issues are conditions related to our organizational activities, products, services, strategic direction, culture, people, knowledge, processes and systems. Using SWOT analysis provides our organization with framework for reviewing and evaluating our strategies, and the position and direction of our organization, business propositions and other ideas;

External issues are conditions related to cultural, social, political, legal, regulatory, financial, technological, economic, competition at local, national or international levels. Using PESTLE

analysis provides our organization with framework for measuring our market and growth potential according to external political, economic, social, technological, legal and environmental factors.

WGE monitors and reviews this information to ensure that a continual understanding of each party's requirements is derived and maintained. To facilitate the understanding of our context, we regularly consider issues that influence our context during management review meetings using the Context & Interested Party Analysis template.

The results of which are conveyed via minutes and business planning documents. We maintain and retain; in addition to this document, the following documented information to describe our organizational context and decisions relating to it:

1. Analysis of business plans, strategies, and statutory and regulatory commitments;
2. Analysis of technology, competitors, economic reports from relevant business sectors or from technical experts and consultants;

The outputs from these activities are evident as an input to determining the scope of our management (4.3) and its processes (4.4), as well as, the consideration of risks and opportunities that may affect the QEHS management system, and the resulting actions that we take to address them (6.1).

4.2 Relevant Interested Parties

WGE identifies and classifies its interested parties, based on current information and knowledge held within our business. Each interested party is allocated to one or more categories and is analyzed to determine whether any relevant needs or expectations exist; which could impact our business activities or the QEHS management system, and which must be adopted by the organization.

Interested parties and their requirements are ranked and scored using simple, subjective criteria to create a Risk Potential Number (**RPN**). This is captured using the *Context & Interested Party Analysis* template.

Prioritized relevant needs or expectations are converted into requirements which become inputs to planning, and product and/or service designs. The outputs from this process are typically used to inform the following sections and processes of the QEHS management system:

1. Management system scope - 4.3;
2. Management system processes - 4.4;
3. Risk and opportunities - 6.1.1;
4. Environmental aspect and impacts - 6.1.2;
5. OH&S hazard identification - 6.1.3;
6. Legal and compliance requirements - 6.1.4;
7. Communication - 7.4;
8. Operations - 8.0.

WGE recognizes that we have a unique set of interested parties whose needs and expectations change and develop over time, and furthermore; that only a limited set of their respective needs and expectations are applicable to our operational purpose.

4.3 Management System Scope

WGE is able to exert authority and differing levels of control and influence over our activities, as they relate to our products and services, as performed at our facilities. The functional and organizational boundaries for the different physical locations (where applicable) and the level of control and influence are summarised below:

Physical	Functional	Organizational	Authority
The facilities at our registered address	All activities performed and managed by our organization which result in product or service outputs	Complete organizational control over current activities	We have a high degree of authority in order to control or influence related processes
External process performed by 3 rd parties	Undertaking process as per our specifications	Purchasing and contractual controls	3 rd Parties are controlled and influenced through contractual mechanisms

Based on the scope of our activities described in Section 1 - Introduction and the analysis of the issues and requirements identified in Sections 4.1 and 4.2, WGE has established the scope of our QEHS management system in order to implement the objectives and policies that are relevant to our context, our physical and organizational boundaries, product life-cycles and related interested parties. In order for our management system to be robust, all the activities, products and services undertaken by WGE are included within the scope

Figure 3: Types of Interested Party





of the management system. In this way, we are able to control and influence our activities, products and services.

The scope of this document describes our management system, delineates authorities, inter-relationships and responsibilities of process owners and personnel that operate within management system and the sequence and interaction of our processes. Conformance to API Q1 9th edition, ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018 has been verified utilizing a formal assessment and review process undertaken by [Conformity matrix](#).

Although we recognize that API Q1 9th edition, ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018 does not require a formal manual, we have decided to retain and update our integrated manual, as our employees, customers, suppliers and other stakeholders perceive it to add value to our operations.

4.4 Management System Processes

[WGE](#) has implemented the QEHS management system which exists as part of a broader management landscape that has established, documented and implemented our processes, integrated policies and objectives, whilst satisfying the requirements of API Q1 9th edition, ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018.

To achieve this, [WGE](#) has adopted the process approach advocated by the above management system standards by adopting the 'process approach' into our daily operations and by using the PDCA cycle to for process management and to stimulate improvement. The utilization of risk-based thinking is considered and applied when developing, implementing, and improving the effectiveness of our management system.

The process landscape is defined three key groups, their sub-processes, and by managing their inputs, activities, controls, outputs and interfaces; our organization ensures that management system effectiveness is established, monitored, maintained and improved. The process landscape is described and reported using tools such as documented procedures, process maps, turtle diagrams, matrices, schedules and charts, etc.

Process Landscape		
Key Process	Sub-processes	Output
Business Management Processes	Business Planning, Sales & Marketing, QEHS Management, Business Review & Improvement, and Operational Planning	Customer satisfaction and all supporting information, documented information and indicators necessary to demonstrate the ability of the QHES management system and processes to achieve planned results.
Operation & Production Processes	Order/Quote Fulfilment, Design & Development, Procurement & Supply, Production/Manufacturing, Inspection & Calibration, and Storage, Packing & Shipping	
Support & Assurance Processes	Facilities & Maintenance, Corrective Action, Internal Audit, Customer Service, Training & Human Resources, and Document Control & Knowledge	

Refer to **Appendix A.1** for the sequence and the interaction of the processes comprising our QEHS management system and refer to **Appendix A.2** for schedules of current QEHS procedures, reports, forms and checklists.

The monitoring of key performance indicators (KPIs), which are linked to our objectives, is used to measure, monitor and communicate process performance. This approach allows [Top management](#) to regularly review QEHS management system performance and to ensure its ongoing integration with business processes.



As part of the decision-making process; we use trends and statistical data and trends related to non-conformities, environmental, quality and OH&S related aspects, targets, objectives and corrective actions, as well as, monitoring and measurement results, audit results, levels of customer satisfaction, process performance data and compliance data, to ensure that objective management decisions can be made.

Where **WGE** identifies the requirement to outsource any process, or part thereof, which affects conformity with the stated requirements; **WGE** identifies control criteria such as; the competence of workers and contractors, inspection regimes, the provision of product conformity certificates, adherence to specifications and specific job files, etc.

Refer to the *Process Matrix & Application* template which is used to map out and assign responsibilities for achieving requirements to relevant functions, processes, and departments. This information forms the basis for our internal audit programme.

Supporting documentation:

Ref.	Title & Description
01	Organizational Context Procedure



5 Leadership, Commitment & Worker Participation

5.1 Leadership & Commitment

5.1.1 General

Top management is actively involved in maintaining the quality, environmental and OH&S management system. They provide the vision and strategic direction for growth of our integrated management system, and establishes the necessary objectives and policies taking into account the context and strategic direction of our organization.

Top management continue to provide leadership and show commitment to the improvement of our quality, environmental and OH&S management system. **Top management** communicates the importance of fulfilling customer, legal and regulatory compliance requirements through periodic communication meetings as well as by conducting management reviews to ensure the availability of resources, that risk assessments are understood and the integrated management system achieves its intended results.

Top management provides accountability and governance to all activities related to the lifecycle of our processes and products. This includes defining the appropriate responsibilities, authorities, and methods of communication to ensure the safe and effective performance. **Top management** ensures that all necessary resources, responsibilities and accountabilities are allocated for the continual improvement of the management system. Refer to **Appendix A.3** for a copy of our Organization Chart.

Top management have appointed the **QEHS Manager** to ensure that the necessary financial, technological and organizational resources, including the services of specialists and competent **Health & Safety Advisors**, **Environmental Coordinators** and **Quality Inspectors** are available to implement monitor, maintain and report upon the status of the management system.

Cross-functional committees that comprise various organizational levels, functions and work areas are established to support the active management of workers. The Cross-functional committees oversee the implementation of improvement plans and health and safety initiatives. The Cross-functional committees report to **Top management** and the **QEHS Manager**.

Regular reviews and data reporting ensure that the QEHS management system is effective and has the ability to react to emerging issues. **Top management** is committed to implementing and developing the management system and this commitment is defined by our corporate policies and objectives. Top management's involvement and commitment may be found in:

1. Business strategy plans and meetings;
2. Management system goals, their communication and their incentivization;
3. Information provided on our website or social media channels;
4. Annual reports;
5. Management meeting minutes.

Top management ensures that our corporate policies are understood, implemented and maintained throughout at all levels of the organization through printed distribution of policy statements and through periodic management reviews of the policy statements, functional objectives, and corporate level improvement objectives. **WGE** communicates our mission, vision, strategy, policies and processes to all workers in order to:

1. Create and sustain shared values of fairness and ethical behavior;



2. Establish a culture of trust and integrity;
3. Encourage commitment to quality;
4. Provide people with the required resources, training and authority to act with accountability;
5. Inspire, encourage and recognize people's contribution.

In addition, our corporate policies, objectives and targets are communicated and deployed throughout the business via individual, team and department performance objectives which are established and discussed during employee performance reviews.

5.1.2 Customer Focus

WGE strives to identify current and future customer needs, to meet their requirements and to exceed their expectations. **Top management** ensures that the focus on improving customer satisfaction is maintained by setting objectives related to levels of customer satisfaction at management review meetings.

Top management also ensures that customer requirements are understood and met. Customer requirements are understood, converted into internal requirements, and communicated to appropriate workers and contractors within the organization, refer to Section 8.2.2.

Customer complaints and other forms of customer feedback are continually monitored and measured to identify opportunities for improvement. We continually look for ways to interact directly with our customers to ensure that we focus on their unique needs and expectations

5.2 Management System Policies

5.2.1 Establishing our Policies

The QEHS management system policies act as a compass by providing the direction and framework for establishing key corporate level performance measures, as well as related objectives and targets. **Top management** ensures that our corporate policies are established and documented, and that the policies are available to all interested parties via our website.

The **QEHS Manager** has overall responsibility for defining, documenting, implementing and reviewing our integrated policies in consultation with the management teams and other workers and contractors, or their representatives. The policies are reviewed at least annually, as part of the management review program or at a frequency determined by:

1. Changes in organizational context (Refer to Section 4.1);
2. Changing needs and expectations of relevant interested parties (Refer to Section 4.2);
3. Risks and opportunities to the QEHS management system (Refer to Section 6.1.1)
4. Environmental aspects presented during planning and operational processes (Refer to Section 6.1.2);
5. OH&S hazards presented during planning and operational processes (Refer to Section 6.1.3 & 8.1);
6. Legal and compliance requirements presented through the planning process (Refer to Section 6.1.4).

Our organization's policies are communicated to all employees at all levels throughout our organization via training, regular internal communications and reinforcement during annual employee performance reviews. Employee understanding of our policies and objectives is determined during internal audits and other methods deemed appropriate.



WGE is committed to an operating philosophy based on openness in communication, integrity in serving our customers, fairness and concern for our employees and responsibility to the communities within which we operate.

Our vision is to exceed customer expectations for environmental, safety, sustainability, cost, delivery and value. Although the activities contained within our policies are centrally coordinated from our facilities, success of the policy relies on the participation of everyone, and as such, the policy's aims are embedded into our processes.

5.2.2 Communicating our Policies

Top management ensures that our corporate policies are established and documented, and that the policies are available to all interested parties via our website. Our policies are communicated to all employees at all levels throughout our organization via training, regular internal communications and reinforcement during annual employee performance reviews. Understanding of our policies and objectives is determined during internal audits and other methods deemed appropriate.

5.3 Roles, Responsibilities & Authorities

Job descriptions and the organizational structure are reviewed and approved by Top management for adequacy as determined by the changing needs and expectations of the interested parties identified in Section 4.2, and any risk and opportunities presented through the risk management process, Section 6.1. All roles with QEHS accountability and responsibilities (including compliance and legislative requirements) are:

1. Documented in job descriptions
2. Documented in responsibility matrices;
3. Included in an organization chart specific to the business.

Organizational charts are available to all employees. Where contractors are involved, areas of accountability and responsibility are contractually agreed. The organization chart defined in **Appendix A.3** shows the interrelation of personnel within WGE, whilst job descriptions define the responsibilities and authorities of each role. Some of which are summarized below:

5.3.1 Top Management

Members of Top management are ultimately responsible for the quality of WGE's products and services since they control the resources, systems and processes by which conforming work is accomplished. Top management are responsible for business planning, development and the communication of our policies, QEHS management system planning, the establishment and deployment of objectives, the provision of resources needed to implement and improve the management system, and for undertaking reviews.

Top management accepts their legal and moral obligations to ensure, as far as reasonably practicable, a safe and healthy working environment. Safe systems of work are implemented to protect workers, contractors, and anyone else who may be affected by our operations. In pursuance of this duty, Top management has appointed safety specialists to discharge occupational health and safety duties within our operations.

5.3.2 QEHS Manager

The QEHS Manager is responsible for ensuring that any identified risks to quality, the environment or occupational health and safety hazards are eliminated or reduced at source to As-Low-As-Reasonably-Practicable (ALARP) and that our organization's strategic development does not compromise the intended outcomes of our integrated management system by;



1. Reporting on the operation of the management system;
2. Ensuring that improvement is taking place;
3. Ensuring that customer focus is promoted throughout the organization;
4. Ensuring that whenever changes to the QEHS management system are planned and implemented;
5. Ensuring the integrity of the system is maintained during changes;
6. Ensuring that responsibilities and authorities within the QEHS management system are communicated and delegated.

5.3.3 Quality Coordinator

Quality Coordinators support the [QEHS Manager](#) to deliver the following:

1. Inspecting products on manufacturing line for flaws or defects;
2. Testing items by analyzing size, weight, dimensions, etc.;
3. Ensuring the production process meets requirements;
4. Creating reports of quality control tests;
5. Performing statistical analysis and data analysis.
6. Assisting with internal audits;
7. Fulfilling documentation and reporting requirements.

5.3.4 Environmental Coordinator

Environmental Coordinators support the [QEHS Manager](#) to deliver the following:

1. Providing advice and information on environmental matters to staff and others as applicable;
2. Coordinating environmental issues with employees;
3. Identifying and assessing environmental aspects and their impacts;
4. Ensuring operational controls are implemented and monitored;
5. Representation at Improvement Groups;
6. Publication of internal communications and environmental newsletters;
7. Completion of audits according to the internal audit programme;
8. Increasing the environmental competence and awareness of workers at all levels through the development of training and awareness initiatives and sharing of best practice.

5.3.5 Health & Safety Advisors

Health & Safety Advisors support the [QEHS Manager](#) to deliver the following:

1. Providing advice and information on health and safety matters to staff and others as applicable;
2. Identifying and assessing OH&S hazards and their risks;
3. Ensuring operational controls are implemented and monitored;
4. Coordinating OH&S issues with employees;
5. Representation at Improvement Groups;
6. Publication of internal communications and OH&S newsletters;
7. Completion of audits according to the internal audit program;
8. Increasing the OH&S competence and awareness of workers at all levels through the development of training and awareness initiatives and sharing of best practice.



5.3.6 Managers & Supervisors

All Managers and Supervisors demonstrate their commitment to the development and improvement of the management system through the provision of necessary resources, through their involvement in the internal audit process and through their proactive involvement in continual improvement activities. Emphasis is placed on improving both the effectiveness and efficiency of key processes and their sub-processes.

All Managers and Supervisors are responsible for the execution of the business plan and the implementation of our policies, processes and systems described in this integrated manual. All Managers and Supervisors are responsible for planning and controlling the management system processes within their area of responsibility, including the establishment and deployment of operational level objectives and the provision of resources needed to implement and improve these processes.

5.3.7 Workers & Contractors

All workers and contractors are responsible for the quality of their work and implementation of our policies and procedures applicable to the processes that they perform. Workers and contractors who are responsible for product quality have the authority to stop production to correct quality problems.

Workers and contractors are motivated and empowered to identify and report any known or potential problems, and to recommend solutions to aid subsequent risk management and corrective action activities.

All workers and contractors are encouraged to participate and engage with occupational health and safety management processes. At our facilities, WGE appoints [Health and Safety Representatives](#) and [Advisors](#), [First Aiders](#) and [Fire Marshals](#) as required by local conditions, and as determined by documented risk assessments. Employees who share a workspace are required to cooperate and coordinate their actions to ensure safe undertakings.

5.4 Consultation & Participation of Workers and Contractors

WGE recognizes that the involvement of workers in the QEHS management system and the processes that support it are a key requirement of effective health and safety management that enables our organization to make informed decisions.

Worker participation and consultation is ensured via the engagement of all employees, at all applicable levels and functions within our organization. Workers include contractor and agency staff who perform work on-site, as well our organization's direct employees. Time, training, information and resources for participation are provided whilst obstacles and barriers to participation are removed entirely or minimized when they cannot be removed. [Health & Safety Representatives](#) and [Health & Safety Advisors](#) are involved in the following activities, in conjunction with the relevant workers:

1. Incident investigation;
2. Hazard identification;
3. Risk assessment;
4. Implementing and monitoring appropriate hazard mitigations.

Changes to the management system are controlled via the management of change process to ensure unintended consequences are recognized, mitigated, or eliminated prior to implementation of the proposed change. Employees are represented by the [Health & Safety Representatives](#) and [Health & Safety Advisors](#) in health and safety matters, and these representatives determine when and how information is communicated.



Top management ensures participation and representation of the workforce in regard to occupational health and safety matters by promoting the participation of non-managerial roles within the QEHS management system, including; incident investigations, work-place assessments, agreeing corrective actions, formulating objectives and policies, and undertaking monitoring activities such as inspections and internal audits. Other mechanisms for consultation and participation include focussed team meetings, workshops, worker surveys and suggestion schemes.



6 Planning

6.1 Actions to Address Risk & Opportunities

6.1.1 Risks & Opportunities

Risk and opportunity management is undertaken as part of WGE's day-to-day operations to capture and react to perceived risk and opportunity, ensuring each issue is managed at the most appropriate level within our organization.

The aim of risk and opportunity management within WGE is to ensure that organizational capabilities and resources are employed in an efficient and effective manner to take advantage of opportunities and to mitigate risk to our strategic direction and business planning (4.1), interested parties (4.2), our management system and its processes (4.3), our products (8.1) and our suppliers (8.4).

WGE considers and manages the risks and opportunities relating to our stakeholders, our external and internal context, and ultimately the QEHS management system. This process uses the information collected during context and strategy evaluations (SWOT analysis and PESTLE analysis), context and interested party analysis, and from the evaluation of health and safety hazards and environmental aspects.

WGE considers the risks and opportunities and takes action to ensure that our QEHS management system meets its intended outcomes and achieves continual improvement. All risk and opportunity management activities and related decisions are recorded in the Risk & Opportunity Register as well as in Management Review Minutes.

Top management are responsible for incorporating risk-based thinking in to our organization's culture. This includes the establishment of risk management procedures and processes to ensure the effective risk and opportunity management principles are undertaken throughout the lifecycle of our management system, products, services and activities by:

1. Providing sufficient resources to carry out risk and opportunity management activities;
2. Assigning responsibilities and authorities for risk and opportunity management activities;
3. Reviewing information and results from audits and risk and opportunity management activities.

WGE uses a Risk & Opportunity Register to help record, assess, respond, review, report, monitor and plan for the risks and opportunities that we perceive to be relevant. The register allows our organization to methodically assess each risk and to study each opportunity associated with our organizational context, strategy, legal requirements and compliance obligations that relate to the needs and expectations of our customers and interested parties. The register records the control method for each risk and how each opportunity is exploited.

Supporting documentation:

Ref.	Title & Description
02	Risks & Opportunities Procedure

6.1.2 Environmental Aspects

WGE identifies relevant environmental aspects and their subsequent impacts that pertain to our business operations, obligations and customer requirements. Environmental aspects and impacts are recorded within the Aspect Identification Register.

For each identified aspect, the operating conditions, environmental impacts and perceived significance are summarized without the need to provide an exhaustive list of all activities where there are a number of generic and specialist impacts.

Within the register, an assessment of the potential environmental impact of each aspect is undertaken and recorded, along with related targets and objectives.

A scoring system is used to identify the significance of each environmental aspect with regards to relevant current and past activities, products, services and planned or new system or process developments.

The scoring process allows consideration of normal, abnormal and emergency operating conditions where applicable. The risks and opportunities encountered during the life cycle of our environmental aspects are considered when determining the significance of each impact.

Within the register, the environmental aspects are sorted into six categories to facilitate their management and mitigation:

1. Use of natural resources;
2. Land development and buildings;
3. Pollution prevention;
4. Sustainable procurement;
5. Waste management;
6. Travel and transport.

This process is communicated using the Aspect Identification & Assessment Procedure. The

subsequent output from this process takes account of the severity of pertinent environmental aspects and our organization's ability to influence them, in order to determine key issues and requirements that pose adverse or beneficial effects in a prioritized way to:

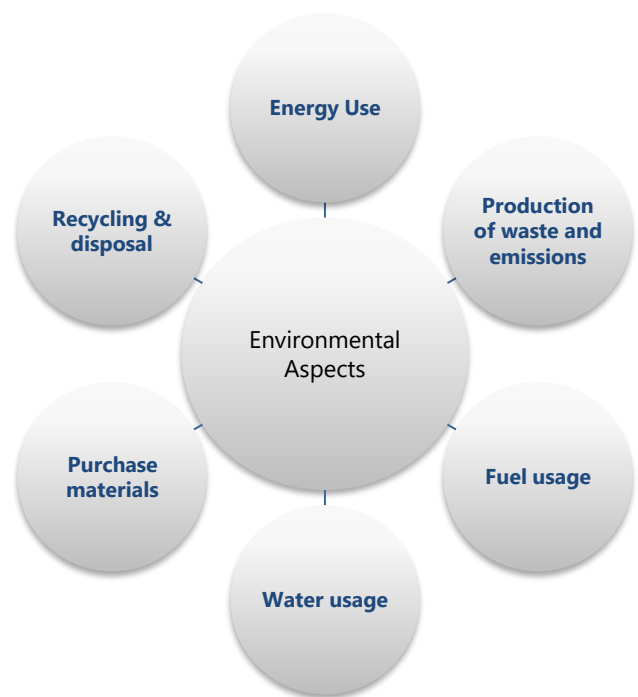
1. Assure that the management system can achieve its intended outcomes;
2. Prevent or reduce undesired effects;
3. Achieve continual improvement.

Environmental aspects that we address include:

1. Those with significant environmental aspects;
2. Those that affect compliance with our obligations;
3. Those which are priority issues for the organization (e.g. affect policies or objectives).

Environmental aspects which pose a significant impact are subject to risk management, corrective action, and monitoring and measurement as appropriate. The QEHS management system is structured to identify and manage these aspects in order to control or limit potential impacts and risks that may affect our organization and system conformity.

Figure 4: Types of Environmental Aspect





The significance of our organization's aspects is reviewed **bi-annually**, including proposals for new processes, services or developments and environmental aspects arising are also considered and assessed for significance by the **QEHS Manager**. New aspects are added to the Aspect Identification Register as necessary and operational controls are altered accordingly.

Supporting documentation:

Ref.	Title & Description
03	Aspect Identification & Assessment Procedure

6.1.3 Hazard Identification & Assessment

WGE has established and implemented a system to identify and assess occupational health and safety hazards and to determine appropriate operational controls, Refer to 8.1.3. This activity is managed using the Hazard Identification & Assessment Procedure. OHS hazards and risks and their qualitative assessment are recorded within the Hazard Identification Register.

The subsequent output from this activity takes account of the severity of pertinent occupational health and safety hazards, the risk that they pose, as well as our ability to influence them. The health and safety hazards which give rise to risk are subject to mitigation, corrective action, and monitoring, as appropriate. The following types of activities and hazards are risk assessed prior starting work:

1. Routine and non-routine activities;
2. Hazards originating externally to the workplace;
3. Work operations including contractor activities;
4. Use of infrastructure, equipment and materials;
5. Whenever change occurs to systems, processes equipment, workers and contractors, materials etc.;
6. Changes in legislation;
7. Emergency situations and potential incidents e.g. fire, accidents;
8. Contractors and visitors to the workplace;
9. The capabilities of workers and contractors including human behavior.

Our organization uses the OHS Hazard Assessment form for undertaking risk assessments of activities that apply to our operations, customer requirements, and routine and non-routine activities. The risk controls documented within the risk assessments are categorized into mandatory and additional controls. Risk assessments are completed by trained and competent **Health & Safety Advisors**.

Continuous systematic and formal monitoring of implementation of the health and safety assessment process and outputs take place against appropriate performance indicators to ensure process compliance and effectiveness.

Supporting documentation:

Ref.	Title & Description
04	Hazard Identification & Assessment

6.1.4 Legal & Compliance Requirements

Top management and the **QEHS Manager** are responsible for ensuring that this manual is up-to-date in relation to OHS legal requirements and environmental compliance obligations. The process by which we manage our compliance obligations and legal requirements is documented and communicated using the Legal &



Compliance Requirements Procedure. Applicable OHS hazards and environmental aspects are identified, evaluated and understood in terms of current legislation and their impact on customer requirements

All relevant legislation and other requirements applicable to WGE's environmental aspects and impacts are compiled into the Legal & Compliance Register. The QEHS Manager ensures that applicable environmental aspects are identified and understood in terms of customer requirements and current legislation.

New and upcoming occupational health and safety, and environmental news and legislation is maintained through regular information from the following sources:

1. Health & Safety Executive, IOSH;
2. Institute of Environmental Management and Assessment (IEMA);
3. Safety & Environmental Magazines/Periodicals e.g. Croners;
4. The Environment Agency and NETREGS websites;
5. Johnson Controls Safety & Environmental Consultants;
6. Local council safety and environmental departments and websites;
7. Relevant safety & environmental websites including DEFRA, RoSPA,

Whenever necessary, WGE communicates to our workers; the details and requirements of any legislative, regulatory and other HS&E policy requirements pertaining to their duties and responsibilities. It is the responsibility of the process owners to ensure compliance with legislative requirements is achieved.

Top management and the QEHS Manager have the responsibility to maintain an awareness of occupational health and safety, and environmental legislation through the use of sources of information including electronic media, journals and professional networking and training. Information on legislation is disseminated by the health, safety and environmental team to the organization through site safety officers, regional safety meetings and internal communications media such as email and the intranet.

On a regular basis, a review of the legal documentation is conducted by the QEHS Manager to ensure that all files relating to OHS and environmental regulations are up-to-date, procedures and records are in place and up-to-date to ensure that all pertinent regulations are being complied with adequately, and that when a new piece of legislation is deemed to have a significant business-related implication, this is added to the agenda of for management review.

On an annual basis, the risk assessments regarding significant hazards and significant aspects are reassessed to account for new or modified legislation pertinent to each hazard or aspect. Legal and compliance requirements are reviewed on a regular basis with assistance from the automatic emails received from NET-Regs whenever legislation is updated or is newly published

Supporting documentation:

Ref.	Title & Description
05	Legal & Compliance Requirements Procedure

6.1.5 Planning Action

Our management system is planned and implemented in order to meet our corporate objectives and as such the planning process involves establishing and communicating our corporate policies, objectives and associated operational procedures.



This document constitutes our overall plan for establishing, maintaining and improving our QEHS management system. For each instance of management system planning, the output is documented and retained accordingly. Any changes are conducted in a controlled manner.

Once the significant or material risks and opportunities are identified; from the activities and outputs undertaken in Sections 6.1.1 to 6.1.5, our organization plans actions to avoid or mitigate perceived risks, or to take advantage of opportunities.

All identified significant environmental aspects and OHS hazards, and associated risks and opportunities that need to be addressed, are used to prioritize action our action planning in order to manage and mitigate them. The [QEHS Manager](#) analyses the risks associated with each change and presents the assessment to [Top management](#) for consideration.

Action is taken in a variety of ways using management review meetings, design review meetings, setting objectives, KPIs and policies, operational control, emergency preparedness, supplier evaluation, and other appropriate processes.

The management review process, change control process, and the internal audit process ensure that the integrity of our management system is maintained when significant changes affect key processes. The management review makes recommendations to ensure that risks and opportunities that could affect the intended outcomes of the management system are taken into account and planned for via the most appropriate business processes.

6.2 Management System Objectives

6.2.1 Integrated Objectives

[WGE](#) sets out its objectives and targets on a regular basis within the management review minutes where details of program dates and responsibilities are defined. Improvements in quality, occupational health and safety, and environmental performance are incremental and are in keeping with the size and complexity of our organization. The process for determining our objectives is communicated by the [Objectives, Targets & Indicators Procedure](#). Each measurable objective:

1. Is consistent with our established strategies, policies and context;
2. Contributes to the prevention of accidents and incidents and to reduce their impact(s);
3. Contributes to the prevention of pollution;
4. Provides a basis for continual improvement;
5. Enhances customer satisfaction.

Objectives are set in association with the [QEHS Manager](#) which are based on reported compliance levels, audited deficiencies and legislative requirements, and agreed by the [Top management](#). The [QEHS Manager](#) monitors and reports progress at [monthly](#) review meetings. To enable objectives and targets to be met, annual improvement plans are developed, documented and integrated into our overall business planning process and which:

1. Specifies the required resources (both human and financial) needed to meet the objectives;
2. Specifies the roles and responsibilities for implementing improvement plans and actions;
3. Establishes the timeframes for completion of improvement plans and achievement of objectives.



When setting objectives and targets, **Top management** ensures that they are consistent with the needs and expectations of our interested parties, as defined in Section 4.2, and with our corporate targets and policies. In addition, technological options, financial, operational and business requirements are considered.

Progress is reviewed routinely by **Top management** as part of the management review and reporting activities, and incorporates any proposed developments for modified activities, products or services. Management programs are modified to account for any changes that affect the achievement of our objectives and targets. All proceedings and decisions are recorded in the management review meeting minutes.

In order to determine whether or not our objectives and targets are being met, their related metrics are reported visually as a set of key performance indicators (KPIs). This allows progress over time to be monitored as the metrics are gathered and the data is analyzed. KPIs and objectives for our organization include the following:

1. Turnover and profitability;
2. Sales targets and production efficiency targets;
3. Reject and rework and cost of quality targets;
4. Energy and raw material use targets;
5. Accident and incident frequency rate;
6. Staffing breakdown.

On the basis of our policies, **WGE** sets objectives that are specified in the *Register of QEHS Objectives & KPIs*. All employees are aware of and, responsible, for the fulfillment of our policies and their subsequent objectives. Managers of all departments are obliged to develop high level objectives into objectives applicable to their departments and employees.

Objective	Target	Measure
Implement API Q1 9 th Edition	Achieve certification by Q4 2023	API Q1 9 th Edition certificate
Implement ISO 9001:2015	Achieve certification by Q4 2019	ISO 9001:2015 certificate
Implement ISO 14001:2015	Achieve certification by Q4 2019	ISO 14001:2015 certificate
Implement ISO 45001:2018	Achieve certification by Q4 2019	ISO 45001:2018 certificate
Implement training programme	All employees trained by Q2 2019	Feedback, improved performance
Reduce wastage, increase recycling	Increase recycling by 20% by Q3 2019	Reduced waste to landfill

6.2.2 Objectives & Planning to Achieve Them

Top Management are responsible for developing the *Objectives Management Programme* and targets for the whole organization. The **QEHS Manager** is responsible for monitoring progress against our targets and objectives, and for reporting this data to **Top management**. The identified significant environmental aspects, occupational health and safety hazards, and quality risks and opportunities are used to prioritise which objectives and plans to implement.

Top management is responsible for agreeing objectives and targets relating to activities under their control and for approving and endorsing objectives and targets for the organization. Planning for action to mitigate adverse risk and significant impacts and the leveraging of opportunities is implemented via:

1. Management system objectives;
2. Monitoring, measuring and analysis;
3. Operational controls;



4. Emergency preparedness and incident response;
5. Others, as appropriate.

The programme acts as our management action plan that identifies individual objectives, the means by which the objectives are to be achieved, and the timeframe in which the actions are to be achieved. Actions are assigned to suitably authorized and competent employees, who are responsible for ensuring that the actions are completed within the terms specified by the programme.

Our plans are driven by the identified significant environmental impacts, occupational health and safety hazards, and the associated impacts, risks and opportunities. Regular and documented management reviews make recommendations to ensure that those risks and opportunities and significant impacts that could affect the intended outcomes of the management system are taken into account and planned for via the most appropriate business processes.

Reviews of progress towards the achievement of our objectives and targets, along with the status of the implementation of improvement plans is conducted at regular and planned intervals or whenever there is a change to activities, operating conditions, or product quality.

Supporting documentation:

Ref.	Title & Description
06	Objectives, Targets & KPIs Procedure

6.3 Planning for Change

Management system reviews and planning activities are performed, prior to the implementation of any significant changes that might impact upon the effectiveness of our integrated management system, in order to minimize adverse effects, as necessary. These types of change may be:

1. Planned or unplanned;
2. Sudden or gradual;
3. Temporary or permanent.

The **QEHS Manager** in conjunction with relevant process owners identify relevant risks and opportunities in order to assess the potential impact of each change to current process practices and activities that might impact upon the performance of the management system. Change assessments are presented to **Top management** for consideration and approval.

The required changes are discussed and documented in the *Management Review Minutes* and subsequent audit and inspection reports assure integrity of the management system and the availability of resources. The allocation or reallocation of responsibilities and authorities is also discussed and documented during the management review meeting.

Operational activities are also a source of change. The change process also applies to the following activities and information which may foreseeably undergo change that require re-assessment after each change:

Type of change	Related Section
Workplace locations and surroundings	4.1, 7.1.4
Working conditions	4.1, 7.1.4
Workforce, plant and equipment	4.1, 7.1.3, 7.1.4
Materials used, their composition and properties	8.2.3, 8.3, 8.4



Type of change	Related Section
Feedstock used and by-products/wastes generated	8.2.3, 8.3, 8.4
Drawings and engineered processes	7.1.6, 7.5, 8.1
Operating and maintenance procedures	7.1.3, 7.5, 8.1
Emergency procedures or changes to business resilience	4.1, 8.1, 8.8
Electronic system software	7.1.5
Organizational structures and responsibilities	4.1, 4.4, 5.3, 5.4, 7.1.2
Personnel changes, training or competency requirements	5.3, 5.4, 7.1.2, 7.2, 7.3
Individual roles and responsibilities	5.3, 5.4
Regulatory and statutory requirements	4.1, 6.1.4, 9.1
Changes in knowledge or information relating to OH&S risks	5.4, 6.1.3, 6.1.4, 7.1.6
New technology and processes	4.4, 6.1
Activities, products and services	4.1, 4.2, 4.3, 4.4, 8.1

The planning activities associated with these types of change are documented using OH&S hazard assessments, workplace assessments, environmental aspect registers, compliance and legal requirements registers, and other planning documents as appropriate.



7 Support

7.1 Resources

7.1.1 General

The resource requirements for the implementation, management and continual improvement of our management system, and the activities necessary to enhance customer satisfaction, are defined in our operational procedures, work instructions and the following sections of this integrated management system manual:

1. Planning; Section 6.0
2. Management review; Section 9.3
3. Human resources; Section 7.1.2
4. Infrastructure; Section 7.1.3
5. Work environment; Section 7.1.4
6. Planning operational control; Section 8.1
7. Determination of customer requirements; Section 8.2

7.1.2 People

To ensure competence of our workers and contractors, the [Human Resources Department](#) uses job specifications and descriptions which identify the qualifications, experience and responsibilities that are required for each position that affects product and management system conformity.

The [Human Resources Department](#) review employee qualifications prior to hire when an employee changes positions or the requirements for a position change. Qualifications include desired requirements for education, skills and experience. Appropriate qualifications, along with the provision of any required training, provide the competence required for each position.

The [Human Resources Department](#) maintains records of employee qualifications. If any differences between the employee's qualifications and the requirements for the job are found, training or other action is taken to provide the employee with the necessary competence. The results of training are evaluated for effectiveness.

7.1.3 Infrastructure & Natural Resources

[Top management](#) is responsible for planning, providing and maintaining the infrastructure and resources needed to achieve product and process conformance, including buildings, workspace and associated utilities; process equipment (hardware and software); and supporting services (such as internal transportation, material handling systems, and communications systems).

The [Operation Manager](#), supported by the [QEHS Manager](#), have overall responsibility for managing the related environmental aspects and occupational health and safety hazards present at our facilities or which exist intrinsically within our equipment and process, or maintenance programs, including:

1. Transportation and material handling;
2. Equipment management, maintenance and repair;
3. Process and production equipment management, maintenance and repair;
4. Facilities management, maintenance and repair.

The [Operation Manager](#) in conjunction with the [QEHS Manager](#) have overall responsibility for managing and mitigating our organization's use of natural resources (non-renewable electricity, natural gas, and water) which



is identified and managed as a significant environmental aspect, and to ensure that our operations remain compliant with relevant parts of:

1. Our corporate policies and objectives;
2. Business and strategy planning;
3. Local Authority conditions;
4. Compliance obligations and legal requirements:

The operation and maintenance of plant and equipment that have the potential to impact management system performance, as defined through risk analysis, is maintained, inspected and tested to ensure it meets design descriptions and performance specifications. Documentation for critical processes, plant, and equipment is retained and made available, and includes as applicable:

1. Codes and relevant legislation;
2. Hazard assessment reports;
3. Operating procedures and operating criteria;
4. Engineering drawings, specifications and engineering standards;
5. Maintenance, inspection and testing strategies;
6. The characteristics of the product or materials essential for safe and proper use.

Supporting documentation:

Ref.	Title & Description
07	Infrastructure & Natural Resources

7.1.4 Operational Environment

WGE ensures that our [shops](#), [offices](#), [warehouses](#) and [depots](#) comply with relevant health and safety regulations. The [Operation Manager](#) carries out regular compliance audits to ensure that appropriate standards are maintained. [Top management](#) is committed to providing:

1. A place of work that is safe, including all equipment and methods of work;
2. Training, instruction, information and supervision for employees;
3. A means of safe handling, storage, use and transportation of equipment, materials and chemicals;
4. Safe working environment with good lighting, ventilation, safe passageways, stairs and corridors.

Where the work environment or the impact of workers and contractors on operational process is determined to result in a risk to products or processes, then risk control measures are defined, documented and implemented. The effectiveness of risk control measures is periodically assessed.

7.1.5 Monitoring & Measurement Tools

The [QEHS Manager](#) determines the frequency of monitoring and measuring activities as well as the types of tools and devices we use to provide evidence of valid measurements to verify specified tolerances and measurement ranges. The frequency of maintenance and calibration is considered with reference to the risks associated with the failure of the device upon the process and its output. The methodology for controlling monitoring and measuring tools is communicated by the [Calibrated Equipment Procedure](#). Where necessary, to ensure the validity of results, calibrated equipment is:

1. Calibrated or verified at specified intervals, or prior to use;
2. Calibrated against measurement standards traceable to appropriate measurement standards;
3. Software used for monitoring and measurement is validated using defined parameters prior to use;



4. Protected from damage and deterioration during handling, maintenance and storage;
5. Safeguarded from adjustments that would invalidate the measurement result;
6. Identified to enable the unit's calibration status to be determined;
7. Safeguarded from use when a unit is found to be out of calibration and the results revalidated;
8. Adjusted or re-adjusted as necessary.

In addition, the [QEHS Manager](#) re-assesses and records the validity of previous measurement results when a tool or device is subsequently found not to conform to requirements. The [QEHS Manager](#) takes appropriate action on any equipment, product or process that may be affected.

Where equipment is found to be out of calibration, the significance of the error is reviewed, its extent is traced and the results are re-verified. Records of the results of calibration and validation are maintained using the Controlled Equipment Log, the Calibration Log, and the Software Validation Log as documented information.

Supporting documentation:

Ref.	Title & Description
08	Calibrated Equipment Procedure

7.1.6 Organizational Knowledge

[WGE](#) recognizes that organizational knowledge is a valuable resource that supports our processes and activities and which helps to assure the conformity of our products, processes, and services. There is a strong link between organizational knowledge and the competence of our people, the latter being our employees' ability to apply knowledge to their work. We define organizational knowledge as information combined with experience, context, interpretation, and insights that are useful when making decisions and taking action specific to our operations.

To ensure that organizational knowledge relating to quality, environmental and OH&S aspects are captured and disseminated through formal modes of training and communication, organizational knowledge is captured in documented information and is embedded into our processes, products and services. Examples of organizational knowledge include:

1. Documented information regarding a process, product or service;
2. Previous specifications and work instructions;
3. The experience of skilled people operating their processes;
4. Mentoring and coaching by more experienced employees;
5. Knowledge or information relating to OH&S risks;
6. knowledge or information relating to environmental aspects;
7. Knowledge of new technologies and infrastructure relevant to our organization, etc.

Sources of internal knowledge also include our intellectual property; knowledge gained from experience and coaching; lessons learnt from failures and successes; capturing and sharing undocumented knowledge and experience; the results of improvements in processes, products and services. [WGE](#) assimilates and deploys internal and external sources of knowledge, such as:

1. Lessons learnt from non-conformities, corrective actions, and the results of improvement;
2. Gathering knowledge from customers, suppliers and partners
3. Benchmarking against competitors;
4. Capturing knowledge existing within the organization, e.g. through mentoring/succession planning;



5. Sharing knowledge with relevant interested parties to ensure sustainability of the organization;
6. Knowledge from conferences, attending trade fairs, networking seminars, or other external events

Sources of external knowledge often include other ISO standards; research papers; webinars from conferences; or knowledge gathered from, or about; our customers, stakeholders or other external parties.

7.2 Competence

Top management identifies emerging competency needs during management reviews. Emergent competency needs are converted into job descriptions for the type and number of positions that need to be filled through internal or external recruitment.

To ensure competence of our workers and contractors, job descriptions have been prepared identifying the qualifications, experience and responsibilities that are required for each position that affects product and system conformity. Qualifications include desired requirements for education, skills and experience. Appropriate qualifications, along with the provision of any required training, provide the competence required for each position.

Qualifications are reviewed upon hire, when an employee changes positions or the requirements for a position change. The **Human Resources Department** maintains records of employee qualifications. If any differences between the employee's qualifications and the requirements for the job are found, training or other action is taken to provide the employee with the necessary competence. The results of training are evaluated to determine if it was effective.

Staff training records are maintained to demonstrate competency and experience. The **Human Resources Department** maintains and reviews the training records to ensure completeness and to identify possible future training needs. Training records are maintained and include as a minimum; copies of certificates for any training undertaken to date, current job description and curriculum vitae.

Where required; competency training and monitoring is conducted in-house, although for more specialist skills, external seminars or courses are utilized. The effectiveness of training is evaluated and recorded. The company induction includes an introduction to our policies and objectives. Future competency training needs are identified as part of the management review process by reviewing the Competency Review Forms. As a minimum, the following competency-based training is provided:

1. OH&S hazard identification and assessment (as appropriate to the role);
2. Operational controls (including procedures and/or work instructions);
3. Work place and safety and environmental monitoring;
4. Incident management (including investigation methods as appropriate to the role);
5. Process interactions.

7.3 Awareness

WGE operates a formal system to ensure that all employees within the organization are adequately trained and aware to enable them to perform their assigned duties. Those staff whose work is directly related to achieving our organization's objectives; understand their particular responsibilities and accountabilities within the context of the management system.

All employees are trained on the relevance and importance of their activities, and on how they contribute to the achievement of our policies and objectives through their work. We aim to raise quality, environmental, and occupational health and safety awareness by encouraging involvement with relevant schemes or initiatives.



All staff, whose work directly affects our organization's environmental impacts, or whom are exposed to health and safety hazards, are briefed to ensure they understand their particular responsibilities and accountabilities within the context of the management system.

Where required, awareness training is conducted in-house to allow the transfer of organizational knowledge but for more specialist skills, external seminars, trainers or courses are utilized. The effectiveness of awareness training is evaluated and recorded using the *Training Evaluation Form*. The company induction includes an introduction to our organization's policy statements and objectives. Future training needs are identified as part of the management review process.

Employees are also encouraged to undertake personal and professional development with plans reviewed on an annual basis at individual annual performance appraisals undertaken by line management. It is a requirement for line managers to refer to the training needs analysis during this appraisal to identify any gaps and/or any refresher training which may be due.

These are added to the personal and professional development plans for the following year. As a minimum, the following awareness training is provided:

1. Understanding of our policies, the management system and its processes
2. Awareness of HSE standards & ACOPs;
3. Significant risks, aspects, impacts, hazards and activities;
4. Accountabilities of specific roles and responsibilities;
5. Consequences of departure from specified procedures or standards;
6. Emergency response procedures and business resilience.

Supporting documentation:

Ref.	Title & Description
09	Competence & Awareness Procedure

7.4 Communication

7.4.1 General

WGE communicates information internally regarding the management system and its effectiveness, through documented training, internal audit reports and continual improvement processes. All managers and supervisors are responsible for establishing regular formal and informal communications as needed to convey to their employees the relevance and importance of their activities; typically, this information is conveyed through team meetings and cross-functional improvement projects.

7.4.2 Internal Communication

Communications regarding how employees contribute to the achievement of objectives are also conveyed and reinforced during employee performance reviews. Issues pertaining to our QEHS management system that may be communicated internally include:

1. Day-to-day operations and general awareness;
2. Quality, environmental and health and safety policy;
3. Information on achieving objectives and targets;
4. Risk and opportunities.



Top management and their direct reports are responsible for communicating the corporate policies as well as the importance of meeting customer, statutory and regulatory requirements to employees within their respective departments.

They ensure that our policies and objectives are understood and applied to the daily work of the organization through the establishment of measurable goals and objectives. Internal communication occurs on an on-going basis and is achieved through various mechanisms as appropriate:

1. Regular meetings and briefings;
2. Training sessions and training material;
3. Display boards, memorandums, letters;
4. Website, intranet, internal e-mails;
5. Product and process performance data analysis and audit results;
6. Targets, objectives, scorecards, KPIs, management system manual and procedures;
7. Corrective action and non-conformance reports.

7.4.3 External Communication

WGE determines the need to communicate information externally to our interested parties, as defined in Section 4.2, regarding the effectiveness of our management system. In most instances, external interested parties (such as consumers, stockholders, neighboring communities, etc.) are the main driving force for our organization to implement our management system. The various processes or means of external communication may include as appropriate:

Interested Parties	Needs & Expectations	Possible modes of Communication
Customers	Price, reliability & value	Publications in the media and focus groups
Distributors & retailers	Price & logistics	Industry association publications and press releases
Owners/shareholders	Profitability & growth	Annual reports or newsletters of performance
Suppliers	Beneficial relationships	Publications via website, meetings or questionnaires
General Public	Environmental responsibility	Visibility via company website
Health & Safety Executive	Health and safety responsibility	Compliance submissions, audit results and AFRs
Environment Agency	Environmental responsibility	Compliance submissions and audit results

WGE ensures that all external communications are authorized prior to release. Where required, advice appropriate to the context of the communication may be sought concerning the content and dissemination of certain external communications.

1. **Internet** - Information about our management system is communicated externally via our website.
2. **Enquiries** - **Our organization** is subject to the Freedom of Information Act and GDPR which requires a response to external requests for information within specific timescales.
3. **Social Media** - **Our organization** manages a *Whatsapp* account to share information, encourage behavioural change and promote events. Similarly, **our organization** utilizes an official *Facebook* page.

All social media is coordinated by our **Marketing Department**. Responses to external communications are recorded if they are transmitted by email or letter. In each case the response is retained and controlled in accordance with the requirements for documented information.

Supporting documentation:

Ref.	Title & Description
10	Communication & Participation Procedure



7.5 Documented Information

7.5.1 Management System Documents

WGE ensures that our management system includes the documented information required to be maintained and retained by API Q1 9th edition, ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, and additionally; any documented information identified by our organization that demonstrates effective operation. Refer to the Master Document Index.

WGE applies the following criteria to all types of documented information in order to assess whether the information is necessary for demonstrating the effectiveness of our management system, and whether it should be formally controlled. Should any of the criteria apply, WGE ensures that this information is retained and/or maintained as a form of 'documented information'.

1. Communicates a message internally or externally;
2. Provides evidence of process and product conformity;
3. Provides evidence that planned outputs were achieved;
4. Provides knowledge sharing.

Should any of the above criteria apply, WGE ensures that this information is retained and/or maintained as a form of 'documented information' and preserved as organizational knowledge. See 7.1.6.

7.5.2 Creating & Updating

WGE ensures that when we create documented information it is appropriately identified and described (e.g. title, date, author, reference number) and is available in an appropriate format (e.g. language, software version, graphics, etc.) and on appropriate media (e.g. paper, electronic).

All documented information is reviewed and approved for suitability and adequacy. Where permanent changes to a document are required, a Document Change Request form is completed and submitted for the document owner to consideration and implementation.

7.5.3 Controlling Documented Information

Documented information is retained to provide evidence of conformity to the requirements specified by ISO standards, customer requirements and of the effective operation of our integrated management system. We use Document Issue Sheets to record the transmittal of documents to external parties.

WGE uses standard forms and templates that are accessed via a local area network computer system. An electronic document management system, which is backed up and updated as required, is used to retain documented information ensuring only the current versions are available to users. All management system documents are controlled and communicated according to the Documented Information Procedure which defines the process for:

1. Approving documents for adequacy prior to issue;
2. Reviewing and revising as necessary and re-approving documents;
3. Ensuring that changes and current revision status of documents are identified;
4. Ensuring that relevant versions of applicable documents are available at points of use;
5. Ensuring that documents remain legible and readily identifiable;
6. Ensuring that documents of external origin are identified and their distribution controlled;
7. Preventing the unintended use of obsolete documents;



8. Ensuring that documents of external origin are identified and their distribution controlled.

Supporting documentation:

Ref.	Title & Description
11	Documented Information Procedure



8 Operation

8.1 Operational Planning & Control

8.1.1 Quality Operational Planning & Control

WGE establishes and implements documented plans and procedures that describe the processes identified in Section 4.4 and the controls required for the provision of products and services in cognizance to our objectives, the potential for planned or unintended change, and the risks and opportunities identified in Section 6.1.1. During the planning phase, [Top management](#), the [QEHS Manager](#) and other responsible personnel identify the following parameters:

1. Objectives and requirements for the product or service;
2. Verification, validation, monitoring, inspection and test requirements;
3. Documented information to demonstrate conformity;
4. Related life cycle aspects, impacts and mitigations;
5. Documented information to demonstrate conformity;
6. Necessary resources; or outsourced processes and their controls;
7. Criteria for process performance and product/service acceptance;
8. Potential consequences and mitigation to change affecting input requirements;
9. Resources necessary to support the ongoing operation and maintenance of the product.

The output of this planning activity includes, as appropriate, documented plans, resource schedules, processes and equipment requirements, procedures and design outputs.

Design and development activities targeted at controlling risks are supported by documented information. This documentation relates the design activities to the identified risks in a way that provides objective evidence that the nature and extent of the design control is reasonable and appropriate to the degree of risk.

8.1.2 Environmental Operational Planning & Control

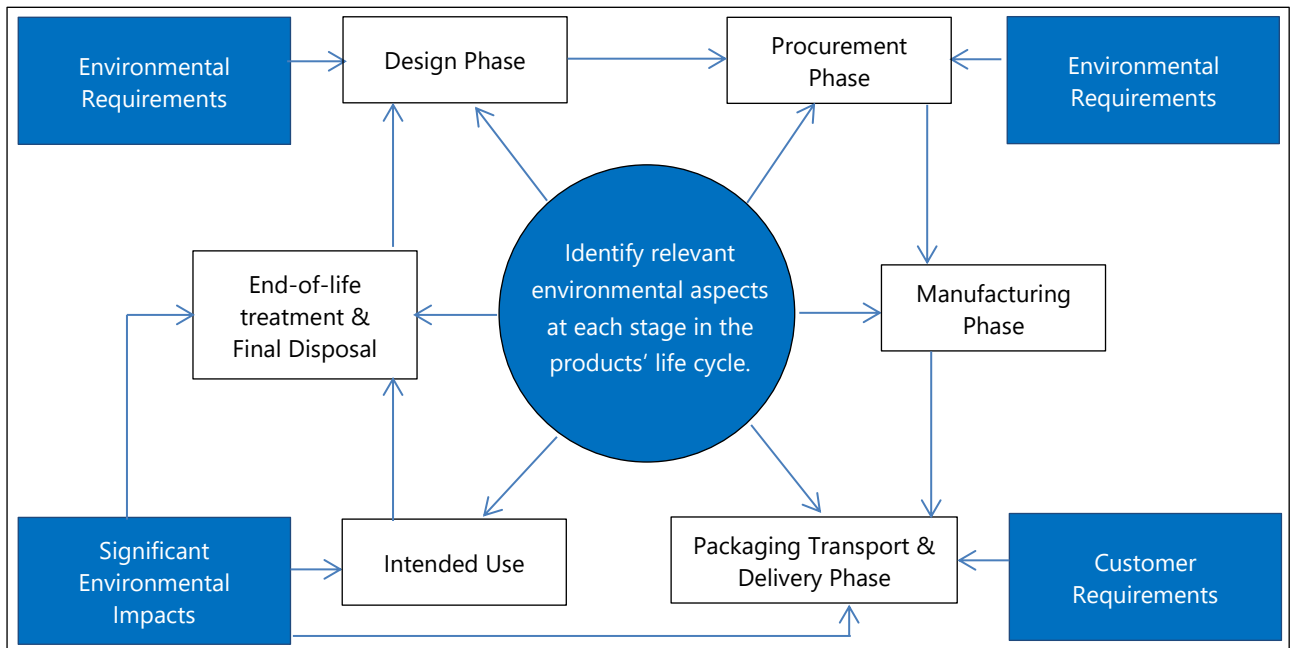
WGE considers the environmental requirements and aspects that can be controlled and influenced during each phase of the product life-cycle. Where applicable, a life cycle approach is taken within our operational controls so that the environmental impacts at each stage of the life-cycle are identified, assessed, and controlled, or influenced. Refer to Figure 7 below.

By identifying and documenting information about the relevant environmental aspects (6.1.2) and compliance obligations (6.1.4), we are able to prevent or mitigate adverse impacts during each life-cycle phase:

1. Design phase;
2. Procurement phase;
3. Manufacturing phase;
4. Packaging, transport and delivery phase;
5. Intended use;
6. End of life treatment and final disposal.

The relevant environmental management operational procedures are also applicable to outsourced processes including those undertaken by contractors, the level and extent of control or influence is defined. The controls identified do not absolve us of the responsibility to conform to client, statutory and regulatory requirements but instead they enhance our capacity to effectively manage our supply chain.

Figure 7 The Life-cycle & Environmental Requirements



Our organization does not control or influence all of the activities of each outsourced process. Only those where our organization has responsibility for conforming to environmental requirements, in accordance with our aspects, impacts and compliance obligations, are controlled or influenced.

WGE establishes and implements documented plans and procedures that describe the processes (Refer to Section 4.3) and the controls required for the provision of products and services in cognizance to the objectives, the potential for planned or unintended change, and the risks and opportunities identified in Section 6.1. During this planning phase, management or other responsible personnel identify the following parameters:

1. Objectives and requirements for the product or service;
2. Verification, validation, monitoring, inspection and test requirements;
3. Documented information to demonstrate conformity;
4. Document information to demonstrate process effectiveness;
5. Necessary resources; or outsourced processes and their controls;
6. Criteria for process performance and product/service acceptance;
7. Potential consequences and mitigation to change affecting input requirements;
8. Resources necessary to support the ongoing operation and maintenance of the product.

The output of planning activity includes documented plans, resource schedules, processes, equipment requirements, procedures and design outputs.

8.1.3 OH&S Operational Planning & Control

WGE has established and implemented a system to identify and assess occupational health and safety hazards, refer to 6.1.3, and to implement the appropriate operational controls to mitigate the resulting risks. Occupational health and safety procedures are implemented by all teams and departments using the appropriate management system documentation to ensure that all activities, products and services meet the applicable regulatory standards.



In terms of eliminating hazards and reducing OH&S risks that are presented during our operational activities, **WGE** plans, implements, and controls processes for managing operational risks to the achievement of applicable requirements, as appropriate to **WGE** and the product and services, by way of the:

1. Assignment of responsibilities for operational risk management;
2. Definition of risk assessment criteria (e.g., likelihood, consequences, risk acceptance);
3. Identification, assessment, and communication of risks throughout operations
4. Identification, implementation, and management of actions to mitigate risks that exceed the defined risk acceptance criteria;
5. Acceptance of risks remaining after implementation of mitigating actions.

Where appropriate, aspects of product safety are controlled to assure safety during the entire product life-cycle as appropriate to the organization and the product. Examples of these include:

1. Assessment of hazards and management of associated risks (see 6.1.3);
2. Management of safety critical items;
3. Analysis and reporting of occurred events affecting safety;
4. Communication of these events and training of affected workers and contractors.

Outsourced processes are controlled and influenced via purchasing and contractual agreements, documented procedures, contracts, supplier agreements and other management system requirements, 2nd party audits, and performance reviews as appropriate. Where applicable a life cycle approach is taken within the operational controls so that the OHS hazards at each stage can be controlled or influenced.

Supporting documentation:

Ref.	Title & Description
12	Operational Control Procedure

8.2 Determining Requirements for Products

8.2.1 Customer Communication

In accordance with our commitment to exceed our customer's expectations, **WGE** highlights effective customer communication as an essential element of delivering customer satisfaction. Appropriate handling of customer communication helps to reduce customer dissatisfaction and, in many cases, turn a dissatisfying scenario into a satisfying experience. Customer communication occurs through the following formats, events and processes:

1. Brochures, specifications or technical data sheets relating to our products and services;
2. Enquiries, quotations and order forms, invoices and credit notes;
3. Confirmation of authorized orders and amended orders;
4. Delivery notes and certificates of conformity;
5. E-mails, letters and general correspondence;
6. When customer property is handled or controlled;
7. Customer feedback and complaints management process;

The **Sales & Marketing Manager** is responsible for establishing methods of communication with our customers and interested parties to ensure that all enquiries, contracts or order handling; including amendments, customer feedback and complaints are handled expeditiously and professionally.

8.2.2 Determining Requirements



WGE develops appropriate requirements to ensure that we satisfy the needs and expectations across the socio-technical environment including those of our customers, stakeholders or relevant interested parties.

WGE ensures that customer requirements are clearly articulated and that their requirements are captured and understood before the acceptance of an order. Customer requirements include the following:

1. Previous customer requirements which pertain to current parts being ordered;
2. Statutory and regulatory obligations related to the product's lifecycle;
3. Customer specified performance requirements;
4. Any additional requirements determined by WGE;
5. Requirements not stated by the customer but which are necessary for specified or intended use.

WGE controls the stages of the product lifecycle by establishing environmental requirements for each product during its design and development phase. This is a customer-driven process that requires clear, and often repeated, customer interaction to understand and confirm the customer's needs.

8.2.3 Reviewing Requirements

Prior to committing to the customer, WGE ensures and confirms our capacity to supply the required product or service. Pre-acceptance reviews are conducted to ensure that:

1. Product requirements are defined and appropriate;
2. Environmental, and health and safety requirements are defined and appropriate;
3. Requirements are defined for delivery and post-delivery activities such as product or service support;
4. Requirements not stated by the customer but which are necessary for intended use are appropriate;
5. Any additional requirements determined by WGE are appropriate;
6. Contract or order requirements differing from those previously expressed are resolved;
7. WGE has the ability to meet the defined requirements;
8. Documented information is retained to show the results of the review.

Customer requirements are confirmed before acceptance by the exchange of contracts or purchase orders via appropriate electronic or hard copy formats.

Evidence of requirements review is documented using the Requirements Review Checklist.

8.2.4 Changes in Requirements

WGE ensures that all relevant documented information; relating to changes in product or service requirements, are authorized and amended where necessary, and that all relevant personnel are made aware of the documented changes to customer requirements via the Design Change Request form and the Design Change Log.

In order to manage the risks associated with any change to business processes, the **QEHS Manager** identifies and assesses each change that may impact on performance.

Supporting documentation:

Ref.	Title & Description
13	Contract Review Procedure

8.3 Design & Development

8.3.1 General



The design and development activity transform the input requirements into conforming product or service outputs. WGE has implemented the *Design & Development Procedure* to define the activities that are required to provide effective products and services.

Design and development planning ensures that risk management activities are conducted during the design and development process by identifying the inter-relationship(s) between appropriate risk management activities, and design and development activities, as well as the resources needed, including the appropriate expertise required to ensure sufficient coverage of potential concerns.

The design and development processes are carried out under controlled conditions; all activities are planned and all outputs are documented. Design and development activities targeted at controlling risk and mitigating significant environmental impacts are supported by documented information.

All designs are reviewed at appropriate stages and, where applicable, the designs are validated. The design and development output are verified before it is released to production. Our design and development practice incorporate appropriate review activities where required, including; reviews of relevant standards and codes of practice, peer review, creator self-review, or independent review as appropriate.

8.3.2 Planning

At the start of the design process WGE reviews the available requirements and specifications and identifies the key stages of the design process. Design and development stages including resources, task sequence, mandatory steps, significant stages and methods of configuration control are established. Where appropriate, our organization considers and implements to the following activities:

1. Assigning responsibilities and authorities for the design and development process;
2. Determining and scheduling required design review meetings;
3. Verification and validation activities appropriate to each stage;
4. Determining the nature, duration and complexity of the design and development activities;
5. Identification of internal and external resources;
6. Determining the need to control interfaces between personnel involved;
7. Identification of multi-disciplinary interfaces whose input is required;
8. Determining the need for involvement of customers and users in the process;
9. Determining the requirements for subsequent provision of products and services;
10. Determining the level of control expected by customers and other relevant interested parties;
11. Determining the documented information needed to demonstrate that requirements have been met.

By structuring the design effort into significant elements and by analyzing the elements, and the necessary resources for design and development, WGE identifies responsible personnel, design content, input data, planning constraints and performance conditions. The input data specific to each element is reviewed to ensure consistency with customer and environmental requirements.

8.3.3 Inputs

Design inputs such as customer data, drawings, specifications, standards, regulations, obligations, and environmental requirements, etc. are checked to confirm they are adequate and unambiguous. Any conflicting or ambiguous requirements are discussed and resolved with the originator and the outcome retained as documented information. WGE also considers the following:

1. Functional and performance requirements;



2. Information derived from previous, similar designs;
3. Statutory and regulatory requirements;
4. Commitments to implement any standards or codes practice;
5. Consequences of failure due to the nature of the products or services.

If the project involves modifying an existing company design then the impact of the changes on component parts, stocks and delivered products is also evaluated. When establishing design and development inputs, the need for risk control measures is considered. When risk control measures are determined to be necessary and are initially defined and become an output as part of the iterative lifecycle of the products.

8.3.4 Controls

WGE controls the design and development process to ensure that the results to be achieved are defined and that corrective action is taken where problems or changes are identified during design reviews and verification or validation activities.

Our designs are verified by reference to similar, proven designs, or by carrying out alternative calculations to ensure that the input requirements are met. Verification is usually carried out as part of the design review process, the results of which are retained as documented information.

Design and development verification generate objective evidence that the identified risks were addressed, risk control measures were implemented as necessary, and risk control measures were verified to be effective so that the end result meets the defined acceptability criteria.

Design and development validation is performed to ensure that resultant the products or services are capable of meeting the requirements for the specified application or intended use, where known, prior to release for delivery or implementation. Validation confirms the products and services meets user needs, intended uses, and that any residual risk meets the overall acceptability criteria.

Where it is impossible to perform full validation prior to delivery or implementation, partial validation is performed to the extent applicable. Where tests are necessary for verification and validation, tests are planned, controlled, reviewed and documented to ensure and prove the following:

1. The correct configuration of the product is submitted for testing;
2. The requirements of the test plan and the test procedures are observed;
3. The acceptance criteria are met.

At appropriate stages, the design is reviewed to ensure it meets the specified input requirements and identifies and resolves any problems. These actions are recorded. The review includes all relevant stakeholders. Records of key decisions are retained. The design review includes the:

1. Evaluation of results to determine whether they fulfill requirements;
2. Identification of problems and proposals for corrective actions;
3. Authorization to progress to the next design and development stage.

Design and development reviews determine if any individual residual risks as well as any overall residual risk are adequately communicated to appropriate individuals including users.

8.3.5 Outputs



The documented outputs of the design and development process are retained as documented information and expressed in terms of compliance with requirements and validated assumptions, approved drawings and calculations, external analysis, or other means that can be verified against the input requirements.

The resulting outputs satisfy the design requirements, provide adequate information on production and service operations, make reference to acceptance criteria and specify characteristics essential for safe and proper use of the product.

During the design and development process, when inherent safety and/or design for protective measures are not possible or practical, additional risk control measures such as labeling, training and residual risk communication may be necessary.

8.3.6 Changes

WGE ensures that changes made during or after the design and development requirements are identified, communicated and retained as documented information. Any changes are reviewed, verified, validated and approved. The review of design development changes includes evaluating the adverse effects of those changes upon constituent products already delivered. Where a design change results from changes in a risk control measure, any relevant risk assessments are reviewed and updated as necessary.

Supporting documentation:

Ref.	Title & Description
14	Design & Development Procedure

8.4 Control of Suppliers, External Processes and Contractors

8.4.1 General

The purchasing process is essential to our organization's ability to provide our customers with products and services that meet their requirements. WGE ensures that all purchased products, services and outsourced processes that are incorporated in to our final products, or which impact management system performance, conform to specified quality, environmental and OH&S requirements.

WGE accomplishes control by closely working with a network of external suppliers, providers and contractors. Their performance and capability are continually assessed through periodic, 2nd party audits, performance data analysis, verification of the supplied products or services, and the inspection of the work of contractors.

The type and extent of control applied to our contractors and suppliers are dependent upon the effect that the supplied product or outsourced process or service may have on our final product output. The following considerations are taken in to account by:

1. Ensuring that we understand the capabilities and competencies of potential suppliers and contractors;
2. Ensuring that we clearly communicate the roles and responsibilities to suppliers and contractors;
3. Defining the quality requirements for the outsourced process, activity, or product;
4. Establishing upfront the criteria for and review of deliverables, frequency of inspections, audits, and other appropriate methods of validation;
5. Selecting and qualifying appropriate suppliers, outsourced process providers and contractors.

Potential product suppliers, process providers and contractors are evaluated using the Supplier Evaluation Form and are added to the Approved Supplier Index after successful evaluation. The Purchasing Manager evaluates



and selects suppliers based on their ability to supply products or services in accordance with specified quality, environmental, and occupational health and safety requirements. This approach helps to mitigate any identified significant environmental aspects and OH&S hazards during procurement of goods and services and to ensure that our procurement operations remain compliant with our:

1. Corporate policies and objectives;
2. Sustainable development procurement policy;
3. Register of environmental compliance obligations
4. OH&S legal requirements and other requirements;
5. Environmental aspects register;
6. Hazard identification and assessments.

Additionally, other internal resources may be called upon to assist as required. The criteria for the selection, evaluation and re-evaluation are defined and communicated in the *Purchasing & Procurement Procedure*, while records of the results of evaluations and any necessary actions arising from the evaluation are retained.

8.4.2 Purchasing Controls

WGE applies and documents quality, environmental and OH&S criteria to the selection of our suppliers and contractors. The criteria are agreed and communicated via contractual documents.

WGE has established and implemented a process of incoming inspection to ensure that purchased products conform to:

1. Purchase orders and delivery notes;
2. Product specifications;
3. National or international standards.

Purchased items and delivery notes are checked against the purchase order to confirm that the identity and quantity are correct. The inspection is recorded on the *Receiving Inspection Log*. Satisfactory items are placed in stock. In the event that items are rejected on receipt, a non-conformance report is raised and the supplier contacted to arrange replacement or credit.

Where appropriate, risk control measures are applied to outsourced process or products. Risk control measures, and their importance, are documented within the purchasing data and clearly communicated to the supplier. The frequency of contract reviews with each supplier varies depending on their performance at any time and the interval between reviews varies from monthly to annually.

8.4.3 Purchasing Information

WGE uses purchase orders to describe the product or service to be purchased. Designated individuals within the company create purchase orders using the company system. They also ensure the adequacy of the requirements that are specified by the purchase order prior to release. Each purchase order includes where appropriate:

1. Identification of product or service to be delivered, quantity, delivery date, and cost;
2. Requirements for approval or qualification of product, procedures, processes or equipment;
3. Requirements of the supplier's management system
4. Competence of contractors;
5. Contractual requirements and operating criteria.



Where appropriate, the roles and responsibilities for risk management on the part of the manufacturer or supplier are defined as part of the purchasing requirements. In addition, prescribed risk control measures are included in the purchasing requirements as part of the purchasing information which clearly communicated to the supplier or manufacturer.

Supporting documentation:

Ref.	Title & Description
15	Purchasing & Procurement Procedure

8.5 Production & Service Provision

8.5.1 Control of Production & Service Provision

In order to control the planning, administrative support and implementation of work, our organization's policy is to describe the work methods, the controls applied and the records required. The process control activities are quality with many aspects that also relate to quality control. The following controlled conditions are applied where applicable:

1. Quality control checks are performed using appropriate measuring equipment;
2. Handling, storage and transportation;
3. Evidence of completed inspections;
4. Detailed process work instructions and specifications for all products;
5. Criteria for workmanship, competence and plant maintenance.

In cases where special processes are employed where the results of which cannot be easily checked, including any processes where deficiencies become apparent only after the product is in use. Validation demonstrates the ability of these processes to achieve planned results by:

1. Defining qualification criteria and approval of special processes prior to use;
2. Defining criteria for review and approval of the processes;
3. Approval of equipment and qualification of workers and contractors;
4. Use of specific methods and procedures;
5. Requirements for records;
6. Revalidation.

Production information such as the rate of non-conformities, the rate of rework, scrap, yield, and other sources of quality data are evaluated and or compared against the current risk management output to confirm adequacy and completeness of risk controls.

8.5.2 Identification & Traceability

In order to preserve the conformance of products to customer requirements during internal processing and delivery, WGE identifies the product throughout the product realization process:

1. Stored equipment and materials are identified as to type, description and inspection status;
2. Unacceptable items are identified as such and are removed from the normal work flow;
3. All enquiries are identified with a unique estimate number, allocated on receipt;
4. Subsequent orders are identified by contract number.

Where appropriate, the QEHS Manager has implemented an identification system allows for traceability from finished product back to incoming material records and customer specifications. All parts, products and



materials, either purchased or manufactured, are identified with part numbers and or job numbers and where applicable, serial numbers, which link the parts, products and materials to their respective documentation.

When required by the customer, traceability is maintained from receipt of parts to delivery of the final products. The [QEHS Manager](#) maintains records that trace part numbers to their corresponding drawings, specifications and any other relevant documentation such as product configuration records that trace serial numbers of products to their parts lists. Final product serial numbers are recorded on shipping documentation to provide traceability to the end user (customer) and to the originating work order.

8.5.3 3rd Party Property

[WGE](#) identifies, verifies, protects and maintains customer property provided for use. The [QEHS Manager](#) ensures that lost, damaged or unsuitable customer property is recorded and immediately reported to the customer. In cases where the customer provides drawings, specifications, etc., they are managed as documented information. Customer property can also include customer-owned materials, tools (including packaging), tooling (including test/inspection tooling and equipment), and intellectual property.

1. Unless otherwise defined by contract, upon receipt of customer property, our organization will examine items for completeness, proper identification and possible transit damage and identifies these items as the property of the relevant customer;
2. Items found to be non-conforming are quarantined, tagged and recorded as defined in the [Non-conforming Output Procedure](#) and brought to the immediate attention of the customer;
3. No customer property is released for further processing or storage until such time as all required verification and testing activities are completed and the results are found to be acceptable;
4. After receipt, care is exercised to ensure the protection of customer property against loss or damage until such time as it is incorporated into the product or returned to the customer;
5. The identification, segregation, handling, and protection of customer property from time of receipt, subsequent storage, maintenance, during the entire realization cycle are performed in accordance with Section 8.5.4 and any applicable contract requirements;
6. In the event that customer property is lost, damaged or otherwise identified as unsuitable for use while under our control, these conditions shall be recorded and reported to the customer.

8.5.4 Preservation

[WGE](#) ensures that all products and materials are handled and stored appropriately at all stages of the development cycle to prevent damage or deterioration. Products and materials are stored in designated storage areas with appropriate control of inbound receipts and outbound releases.

Products in storage are periodically assessed to detect deterioration. All packaging is sufficient to ensure product quality while in storage and during delivery to the customer:

1. Components and products are handled and stored in a manner that prevents damage or deterioration, pending use or delivery;
2. Controls are implemented to prevent mixing conforming and non-conforming materials;
3. Packing ensures specified or original manufacturing packaging is utilized;
4. All products are suitably packed to prevent deterioration or damage during storage and delivery.

Only products with the proper identification and inspection status are accepted into and released from storage by authorized stockroom staff. Limited shelf life items are issued on a 'first in, first out' basis and the condition of long shelf life material in stock is assessed every [three months](#) to prevent product deterioration. Completed



products awaiting packaging and shipping are protected to prevent damage from vibration, shock, abrasion, corrosion, humidity, temperature, or any other conditions that may occur during handling or storage.

8.5.5 Post-delivery Activities

WGE determines the customer's requirements for post-delivery activities before accepting an order. In determining the extent of post-delivery activities that are required, we consider:

1. Statutory and regulatory requirements;
2. The potential undesired consequences associated with our products and services;
3. The nature, use and intended lifetime of our products and services;
4. Customer requirements;
5. Customer feedback.

Post-delivery activities also include, as appropriate actions under warranty provisions, contractual obligations such as maintenance services, and supplementary services such as recycling or final disposal.

8.5.6 Control of Changes

Changes to the production and service provision requirements are identified, communicated and recorded as appropriate. Any unplanned changes are reviewed, verified, validated and approved to ensure that products and services continue to meet their specified requirements, in such a way that conformity with requirements is maintained. Changes are documented and information is retained about changes, including who authorized the change, and the actions arising from the change.

Supporting documentation:

Ref.	Title & Description
16	Product & Service Provision Procedure

8.6 Release of Products & Services

The extent and sequence of the required inspection and test are specified in documented procedures, work instructions and manufacturing planning documents in order to demonstrate that the specified requirements are met.

The amount and nature of inspection and test are based on the importance of the product characteristic, the process control exercised and the specified requirements. All inspection and test activities are carried out by competent, authorized workers. WGE uses the following methods as a means to ensure product acceptance.

1. **Incoming inspection** - Incoming material is withheld pending completion of required inspection or receipt of objective evidence of conformance from the supplier;
2. **First-article inspection and testing** - Typically the first produced unit that both the customer or supplier agree to use as the required base-line standard for all following units;
3. **In-process inspection and testing** - Products are withheld from further processing until there is objective evidence that the required inspection and test have been performed;
4. **Final inspection and testing** - Evidence that all inspections and tests that were required during previous stages of manufacturing were performed and documented as meeting the requirements.

Measurement and acceptance criteria that are necessary for product acceptance are retained as documented information; subsequent acceptance records form the production documentation evidence which includes the following information:



1. Criteria for acceptance and rejection;
2. Locations in the process sequence where measurement and testing operations were performed;
3. Types of measurement instruments used, including any instructions associated with their use;
4. Test records showing actual test results where required by the specification or acceptance test plan.

Documented information is retained to indicate the person authorizing the release of the product. Product release and service delivery does not proceed until all the planned arrangements have been satisfactorily completed, unless otherwise approved by a relevant authority, and where applicable by the customer.

Supporting documentation:

Ref.	Title & Description
17	Testing & Inspection Procedure

8.7 Non-conforming Outputs

WGE ensures that provisions are made for the identification and control of all non-conforming outputs and materials including non-conforming product return by a customer, in order to prevent the inadvertent use or shipment of non-conforming products and the unnecessary costs associated with the processing of non-conforming products.

The *Non-conforming Output Procedure* defines the responsibilities, authorities and methods used for the identification, segregation, review and disposition of non-conforming products, as well as the implementation of corrective action in order to prevent recurrence of the non-conformance, and action appropriate to the effect, or potential effects, of the non-conformity when non-conforming product is detected after delivery or use has started.

Records, clearly identifying the product, the nature and extent of nonconformance, the approved disposition and corrective action taken are maintained and as documented information in accordance with Section 7.5. Disposition of 'use-as-is' or 'repair' is only used after approval by an authorized representative of the organization responsible for the design.

Documented information concerning the nature of any non-conformances, the resolving authority, and the resulting corrective actions is retained. Where necessary, details concerning any authorized concessions are documented as evidence of acceptance.

Supporting documentation:

Ref.	Title & Description
18	Non-conforming Outputs Procedure

8.8 Emergency Situations

WGE has identified potential emergency situations pertaining to our business operations which may lead to an undesired environmental impact or health and safety hazard. The [QEHS Manager](#) and the [Operation Manager](#) are responsible for ensuring that procedures and practices are established for preventing and responding to emergency situations.

The Emergency Management Plan is jointly owned by the [QEHS Manager](#) with responsibilities assigned to a dedicated [Emergency Response Team](#), which includes trained [Fire Marshals](#) and [1st Aiders](#), and is periodically tested by during regular drills. The Emergency Management Plan is initiated in the event of an emergency arising from the following environmental hazards:



1. Flood, fire, natural disaster;
2. Accident, incident or near miss;
3. Release of chemical substances;

The Emergency Situations Procedure and related documents address the following:

1. Identification of potential and actual accidents and emergency situations;
2. Proper response to emergencies and prevention or mitigation of serious environmental impacts;
3. Provisions for periodic reviews and revisions of the procedures;
4. Such reviews are always initiated after the occurrence of such events;
5. Periodic drills to test the effectiveness of emergency preparedness and response procedures;

Records of environmental incidents, near-misses and non-conformities with management system procedures are documented. In the event of an incident, non-conformity, or near miss, members of staff involved or witnessing the incident are responsible for reporting the event to the [QEHS Manager](#) who is responsible for investigating the issue to establish the root cause.

Supporting documentation:

Ref.	Title & Description
19	Emergency Situations Procedure



9 Performance Evaluation

9.1 Monitoring, Measurement, Analysis & Evaluation

9.1.1 General

WGE applies suitable methods for determining which aspects of the management system and its processes are to be monitored, measured, analyzed and evaluated. The frequency at which our processes are monitored, measured, analyzed and evaluated is determined and informed by:

1. Statutory and regulatory requirements;
2. Customer feedback and specification requirements;
3. Process and management system requirements and the criticality for product conformity;
4. Process performance and audit results;
5. Level of risk and types of control measure;
6. Trends in non-conformities or corrective actions.

All monitoring, measuring, analysis and evaluation outputs are documented and analyzed to determine process effectiveness and to ensure their effectiveness in achieving in-tolerance results, and to identify opportunities for improvement:

1. In-process checks relate to both quality control and productivity checks;
2. Provision is made for the identification and resolution of non-conformances;
3. The emphasis is to prevent any problems which might affect customer satisfaction;
4. In-process checks are performed and documented;
5. Where specific inspection points are required these are identified at the contract planning phase.

Where applicable, all measurements, analyses, and test and inspection records are retained as documented information for a minimum of three years. This documented information includes details of the final inspection authority to confirm that all critical parameters are in accordance with the established requirements and specifications. Additionally, product samples are stored and protected for five years.

Products are not normally released or delivered until all planned inspections and tests have been completed and that documented information exists to provide evidence of conformity with acceptance criteria and which identifies the person(s) authorizing release. In rare cases (due to customer requirements and/or production emergencies) unverified product may be released or delivered under controlled conditions of positive recall, as documented and approved by the customer or supplier.

9.1.2 Customer Satisfaction

The success in meeting our customer's requirements and in achieving a high level of customer satisfaction with WGE's products and services is evaluated on a regular basis, at least **annually**. This is done using, but is not limited to, on-time delivery performance, warranty analysis, in-service performance monitoring, customer complaint analysis, annual customer satisfaction surveys, and other appropriate means. The customer satisfaction results are summarized for discussion at management reviews.

WGE has developed and implemented plans for customer satisfaction improvement that address any deficiencies identified by these evaluations and to assess the effectiveness of the results. WGE has implemented a method of handling customer enquiries and is established to provide a rapid response to customers who have an urgent need for assistance, or a complaint, which would adversely affect customer satisfaction.



Supporting documentation:

Ref.	Title & Description
20	Customer Satisfaction Procedure

9.1.3 Analysis & Evaluation

In order to identify opportunities for improvement, [Top management](#), [QEHS Manager](#) and other [managers](#), as appropriate, routinely collect and analyze data using appropriate statistical and non-statistical techniques to determine the suitability and effectiveness of key management system processes using data points applicable to their area(s) of responsibility.

Effectiveness is measured in terms of product quality, environmental compliance, process accuracy, delivery schedule performance, cost and budgetary performance; employee performance against established objectives and levels of customer satisfaction. In order to identify ongoing strengths, weaknesses, threats and opportunities within our integrated management system, [WGE](#) monitors and analyzes trends using the following data points:

1. Characteristics of processes, products and their trends;
2. Conformity to product, customer, environmental and legal requirements;
3. Customer satisfaction and perception data;
4. Supplier and external provider performance data;
5. Results of actions taken to address risks and opportunities;
6. Effective implementation of integrated management system planning;
7. Improvement opportunities identified during internal audits and management reviews.

Control limits for process and product performance are expressed as objectives, and targets and are disseminated via documented information as appropriate.

[WGE](#) undertakes corrective action when the data shows a trend toward the pre-defined control limit. Employees, who utilize statistical tools to analyze; measure and verify outputs, are competent to ensure proper deployment of these techniques.

9.1.4 Evaluation of Compliance

Conformance with current environmental and health and safety legislation is reviewed and evidence of evaluation is maintained through the management review process. In addition to monitoring and measurement of operational activities, [QEHS Manager](#) periodically evaluates our compliance with all applicable legal requirements, compliance obligations and other requirements to which we subscribe.

In most cases, monitoring and measurement is an on-going process intended to collect data required by legal and other requirements. The evaluation of compliance analyzes and compares the data collected over a period of time in comparison with our stated compliance obligations and legal requirements as defined in the [Compliance Obligations Register](#).

Supporting documentation:

Ref.	Title & Description
21	Analysis & Evaluation Procedure

9.2 Internal Audit

9.2.1 General



Internal audit results are critical inputs that help to assess the effectiveness of our management system. WGE's internal audits use risk-based thinking and the notion of continual improvement as the main drivers. Internal audits are conducted at planned intervals to determine whether the management system conforms our organization's planned arrangements and to the requirements of ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018.

9.2.2 Internal Audit Program

The internal audit program, coordinated by the [QEHS Manager](#), details the frequency and general focus of each internal audit and is recorded and communicated within the [QEHS Internal Audit Program](#). WGE's internal audit program is based upon a strategy that considers the status and importance of each process comprising the QEHS management system.

The audit frequency is also based upon process performance trends, results from previous audits, levels of customer satisfaction, rates of non-conformity and corrective action, etc. to ensure that our organization focuses on the aspects that affect product and process conformity the most.

The criteria, scope, frequency and methods of each audit are defined in the audit reports. The selection of trained auditors and their subsequent impartial conduct ensures objectivity throughout the audit process and that:

1. The results of each are reported to the [QEHS Manager](#);
2. That timely appropriate corrective action undertaken where required;
3. They retain documented information such as audit checklists and audit reports as evidence of the effective implementation of the audit programme in respect of each audit.

Internal auditors are selected to ensure objectivity and impartiality of the audit process. This is achieved by selecting a team of auditors from cross-functional departments who have received the appropriate training in the auditing process.

The audit is conducted according to the [Internal Audit Procedure](#) and to ensure that timely corrective actions are implemented to correct any deficiencies found. The results of the audits are recorded and submitted to the personnel having responsibility in the area audited. The results of the internal quality audits are summarized for discussion at management reviews.

Supporting documentation:

Ref.	Title & Description
22	Internal Audit Procedure

9.3 Management Review

9.3.1 General

To ensure the continuing suitability, adequacy and effectiveness of our management system in meeting our organization's strategies, [Top management](#) conducts formal management review meetings at planned intervals. The requirements for conducting management review are defined and communicated using the [Management Review Procedure](#).

In summary; a nominated [Senior Manager](#) chairs the Management Review Meeting. The review group is coordinated and recorded by the [QEHS Manager](#). To ensure that the review group includes each of the



requirements of ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018, the *Management Review Agenda & Minutes* are prepared and distributed by the [QEHS Manager](#).

9.3.2 Inputs

The primary management review inputs comprise data from conformance and performance measurements that are gathered at key quality, environmental, and health and safety data points from various processes and activities. Subsequent reported recommendations for improvement are based on the evaluation of such measurements.

Conformance is primarily assured through internal audits and demonstrated through a review of audit results and our demonstrated ability to detect, correct and to prevent problems. Performance is primarily assured through the deployment of corporate and operational level objectives, and through the review of our demonstrated ability to achieve desired results. The management review evaluates the need for change and to establish actions to improve our management system, its processes and resource needs. The management review is led by [Senior Management](#) and considers the following:

1. The suitability of our policies;
2. The impact of changes in compliance obligations;
3. The management of risk and opportunity;
4. Suitability and relevance of objectives, targets and performance indicators;
5. Changing expectations and requirements of relevant interested parties;
6. Changes in the products or organizational activities;
7. Changes to the organizational structure;
8. Communication and feedback from employees and customers;
9. Change management effectiveness;
10. Workplace, environmental, and occupational health and safety monitoring;
11. The status of non-conformities and corrective actions;
12. Performance statistics, including summaries of safety statistics and environmental monitoring results.
13. Findings of completed audits and reviews;
14. Follow up on actions from previous management reviews;
15. Recommendations and opportunities for improving the effectiveness of the QEHS management system.

9.3.3 Outputs

The primary outputs of management review meetings are management actions that are taken to make changes or improvements to our quality management system. During management review meetings, [Top management](#) identifies appropriate actions to be taken regarding the following issues:

1. Improvement of the effectiveness of the management system and its processes;
2. Improvement of product related to customer requirements;
3. Opportunities and risks;
4. Significant environmental aspects;
5. Resource needs.

The primary outputs of management review meetings are the actions necessary to make changes or improvements to our management system. Responsibilities for required actions are assigned to members of



the management review team. Any decisions made during the meeting, assigned actions and their due dates are recorded in the management review minutes. Management review minutes are retained and include:

1. Decisions and actions relating to possible changes to policies, objectives and targets;
2. Information relating to revised risks and any proposed treatment and controls;
3. Improvement suggestions for inclusion into future management plans;
4. Any other alternation, modification and improvement to the management system that demonstrates a commitment to continual improvement.

Relevant outputs from the management reviews are made available for communication and consultation throughout our organization.

Supporting documentation:

Ref.	Title & Description
23	Management Review Procedure



10 Improvement

10.1 General

The [QEHS Manager](#) uses a range of the performance evaluation tools highlighted in Section 9 to make recommendations for improvement and to achieve the intended outcomes of the management system. For example, recommendations may emerge from the review groups and from findings raised in internal audits.

In order to determine and select opportunities for improvement or to implement any necessary actions to meet the requirements of customers and relevant interested parties, or to enhance customer satisfaction, [WGE](#) drives improvement via the analysis of relevant data. The data inputs for the improvement process include:

1. Risk and opportunity evaluations;
2. Assessment of the changing needs and expectations of interested parties;
3. The conformity of existing products and services;
4. The effectiveness of the management system;
5. Supplier performance;
6. Environmental performance;
7. Reducing or eliminating adverse environmental impacts;
8. Reducing or eliminating adverse OH&S hazards;
9. Increasing beneficial impacts and opportunities;
10. Levels of customer satisfaction, including complaints and feedback;
11. Internal and external audit results;
12. Corrective action and non-conformance rates;
13. Data from process and product characteristics and their trends.

[WGE](#) also ensures that opportunities for improvement from daily feedback on operational performance are evaluated by the [QEHS Manager](#) as appropriate. Changes are typically implemented through the corrective action system. Opportunities for improvement from analysis of longer-term data and trends are evaluated and implemented through the management review process and are prioritized with respect to their relevance for achieving our quality and environmental objectives.

The overall effectiveness of continual improvement program (including corrective actions taken as well as the overall progress towards achieving corporate level improvement objectives) is assessed through our management review process.

10.2 Incident, Non-conformity & Corrective Action

10.2.1 Non-conformity & Corrective Action

All non-conformities are reported to the [QEHS Manager](#) in order that an investigation can be initiated using the *Non-conformity & Corrective Action Procedure*. The appropriate manager documents the non-conformity using the *Non-conformance Report* and together with process owners, they consider the root-cause of the non-conformity.

Where necessary, other competent parties are consulted to identify the root cause and plan appropriate action. The [QEHS Manager](#) records the non-conformance together with any agreed corrective action within the *Corrective Action Log*. The results of the corrective action are recorded within the *Corrective Action Report*.



The appropriateness and effectiveness of any corrective action is reviewed during documented reviews, and via the internal audit process, and reported as necessary to [Top management](#). Evidence of non-conformity, customer dissatisfaction or process weakness is used to drive our continual improvement system. Since problems may already exist, they require immediate correction and possible additional action aimed at eliminating or reducing the likelihood of its recurrence.

Follow-up audits are conducted in accordance with the internal audit process to ensure that effective corrective action is implemented and that the action is appropriate to the impact and nature of the problem encountered. In addition, the [QEHS Manager](#) summarizes and analyzes corrective action data to identify trends in order to assess the overall effectiveness of the corrective action system and to develop related recommendations for improvement.

The resulting corrective actions are reviewed by the [QEHS Manager](#) for effectiveness and are reported to [Top management](#) in order to determine if changes to the management system are required, or whether any new risks or opportunities need to be considered during planning.

The corrective actions are considered effective if the specific problem was corrected and subsequent data indicates that the same or similar problems have not recurred. Results of data analysis and subsequent recommendations are presented to [Top management](#) for review.

Supporting documentation:

Ref.	Title & Description
24	Non-conformity & Corrective Action Procedure

10.2.2 Incident Investigation

[WGE](#) has implemented the *Incident Investigation Procedure* for the handling of, and the investigation of accidents, incidents and near misses. The procedure defines the controls for reporting and investigating all types of accident, incident or near miss that may occur on our premises.

By identifying the root cause and implementing relevant corrective actions, we aim to avoid reoccurrence. Records are maintained of any changes to the documented procedures resulting from corrective action.

Records of occupational health and safety issues and non-conformities with the occupational health and safety management procedures are documented. In the event of an accident, incident, or near miss; members of staff involved or witnessing the incident are responsible for completing an *Accident, Incident & Near Miss Report*.

The report is sent to the [QEHS Manager](#) who is responsible for investigating all accidents, incidents and near-misses using the *Accident, Incident & Near Miss Investigation Form*, to establish the root cause.

Supporting documentation:

Ref.	Title & Description
25	Incident Investigation Procedure

10.3 Improvement

[WGE](#) continually improves the effectiveness of our management system through the effective application of our corporate policies, objectives, auditing and data analysis, corrective and preventive actions, and management reviews.



The continual improvement process begins with the establishment of our corporate policies and objectives for improvement, based on objectives contained in our business plans and customer targets and goals. Customer satisfaction, internal audit data, process and product performance data, and the cost of poor quality or risk control are compared against objectives or KPIs to identify additional opportunities for improvement.

The overall effectiveness of continual improvement program, including the effectiveness of any corrective actions, as well as the overall progress towards achieving corporate level improvement objectives, are assessed through our management review process.

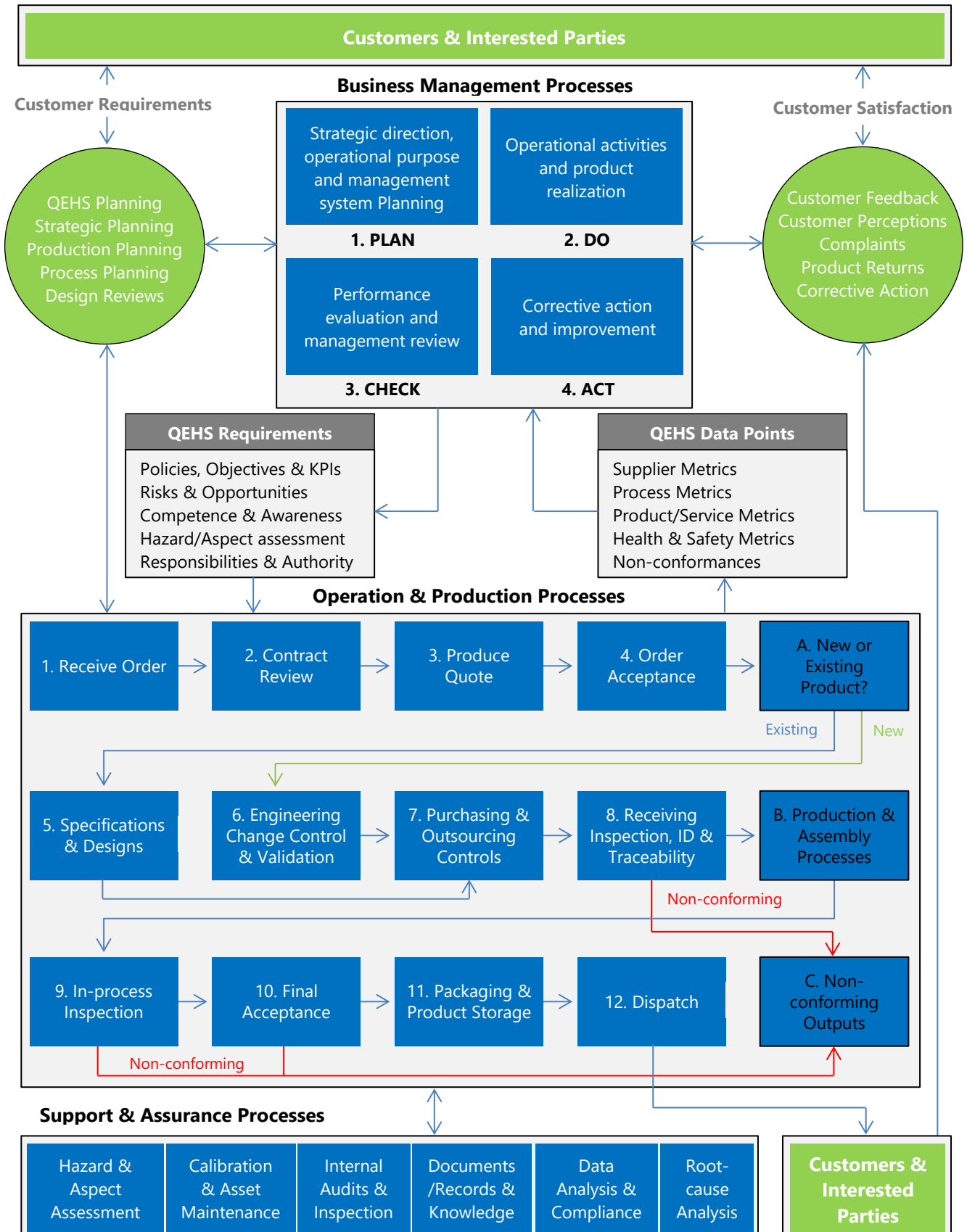
Supporting documentation:

Ref.	Title & Description
26	Continual Improvement Procedure



Appendices

A.1 Integrated Management System Interaction





A.2 Integrated Management System Document Index

A.2.1 List of Procedures

Ref.	Title & Description	Ref.	Title & Description
01	Organizational Context	14	Design & Development
02	Risks & Opportunities	15	Purchasing & Procurement
03	Aspect Identification & Assessment	16	Product & Service Provision
04	Hazard Identification & Assessment	17	Testing & Inspection
05	Legal & Compliance Requirements	18	Non-conforming Outputs
06	Objectives, Targets & Indicators	19	Emergency Situations
07	Infrastructure & Natural Resources	20	Customer Satisfaction
08	Calibrated Equipment	21	Data Analysis & Evaluation
09	Competence & Awareness	22	Internal Audits
10	Communication & Participation	23	Management Reviews
11	Documented Information	24	Non-conformity & Corrective Action
12	Operational Control	25	Incident Investigation
13	Contract Review	26	Continual Improvement

A.2.2 List of Report & Forms

Ref.	Title & Description	Ref.	Title & Description
01	Context & Interested Parties	27	Supplier Evaluation
02	Process Matrix & Application	28	Receiving Inspection Log
03	SWOT Analysis Template	29	Customer Property Log
04	PESTLE Analysis Template	30	Production Control Plan
05	Risk & Opportunity Register	31	Traceability Log
06	Aspect Identification Register	32	Inspection & Test Report
07	Hazard Identification Register	33	First Article Inspection Log
08	OHS Hazard Assessment	34	In-process Inspection Log
09	Legal & Compliance Register	35	Final Inspection Log
10	Register of QEHS Objectives & KPIs	36	Non-conformity Report
11	Objectives Management Programme	37	Concession Request
12	Equipment Maintenance & Service Log	38	Concession Request Log
13	Competency Review	39	Emergency Equipment Log
14	Training Attendance	40	Emergency Preparedness & Response Matrix
15	Training Evaluation	41	Customer Feedback Log
16	Controlled Equipment Log	42	Customer Satisfaction Survey
17	Calibration Log	43	Internal Audit Report
18	Software Validation Log	44	Internal Audit Assignment
19	Master Document & Record Index	45	Internal Audit Feedback
20	Document Issue Sheet	46	Management Review Agenda & Minutes
21	Document Change Request	47	Corrective Action Report
22	Life Cycle Analysis Template	48	Corrective Action Log
23	Requirements Review Checklist	49	Incident Investigation Form
24	Design Change Request	50	Incident Report
25	Design Change Request Log	51	Improvement Activity Form
26	Approved Supplier Index	52	Process Effectiveness Assessment Form



A.2.3 List of Audit Documents

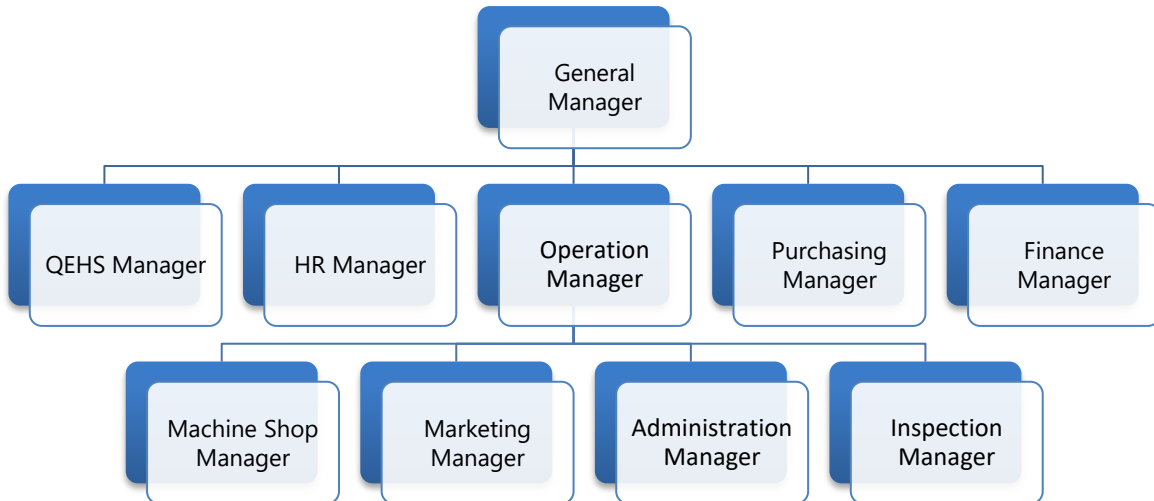
Ref.	Title & Description
01	Internal Audit Programme (10-year & 2-year programmes)
02	Integrated Audit Checklist (with compliance charts)
03	Process Audit Report
04	Supplier Audit Checklist

A.2.4 List of Gap Analysis Documents

Ref.	Title & Description
01	ISO 9001-2015 Gap Analysis & Transition Guide
02	ISO 14001-2015 Gap Analysis & Transition Guide
03	ISO 45001-2018 Gap Analysis & Transition Guide



A.3 Organization Chart





A.4 Use of API Monogram by Licensees as per API Q1

A.4.1 Quality Management System Requirements

WGE develops, maintains and operates at all times the management system conforming to API Q1 9th edition, ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018.

A.4.2 Control of the Application and Removal of the API Monogram per API Q1

WGE control the application and removal of the API Monogram in accordance with the following:

A) Products that do not conform to API-specified requirements shall not bear the API Monogram.

B) WGE develops and maintains an *API Monogram Marking and Nameplate Procedure* that documents the marking/monogramming requirements specified by this annex and any applicable API product specification(s) and/or standard(s).

The marking procedure shall:

- 1) Define the authority responsible for application and removal of the API Monogram;
- 2) Define the method(s) used to apply the Monogram;
- 3) Identify the location on the product where the API Monogram is to be applied;
- 4) Require the application of WGE's license number and date of manufacture of the product in conjunction with the use of the API Monogram;
- 5) Require that the date of manufacture, at a minimum, be two digits representing the month and two digits representing the year (e.g., 07-23 for July 2023) unless otherwise stipulated in the applicable API product specification(s) or standard(s); and
- 6) Require controls for the application of the additional API product specification(s) and /or standard(s) marking requirements, as applicable.

C) WGE shall apply the API Monogram and its designated license number to API Monogram able products.

D) The API Monogram license, when issued, is site-specific and subsequently the API Monogram shall only be applied at that site specific licensed facility location.

E) The API Monogram may be applied at any time appropriate during the production process but shall be removed in accordance with *WGE Monogram Marking and nameplate procedure* if the product is subsequently found to be out of conformance with any of the requirements of the applicable API product specification(s) and/or standard(s) and API Monogram Program.

A.4.3 Design Package Requirements

WGE shall maintain a current design package for all of the applicable products that fall under the scope of each Monogram license. The design package (if Applicable) information shall provide objective evidence that the product design meets the requirements of the applicable and most current API product specification(s). The design package(s) shall be made available during API audits of the facility.