McMullen Facades
Sparkle Street Manchester
Project Quality Plan



Current version

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Version history

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Response to Comments

comment addressed

contents unchanged and comment clarified

comment not addressed

Stakeholders

Company Name (e.g. Arup), Company Name (e.g. Midgard).

Revision AXX

	Item	Chapter – Page	Comment	Response
	01	§xx.xx – pg.xx		
	02	§xx.xx – pg.xx		
	03	§xx.xx – pg.xx		

References

[1] ISO 10005_2019 – Quality Management. Guidelines for Quality Plans
[2] ISO 9001_2015 – Quality Management Systems. Requirements
[3] ISO 14001_2015 – Environmental Management Systems. Requirements with Guidance for Use
[4] ISO 45001_2018 – Occupational Health and Safety Management Systems. Requirements with guidance for Use

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1.0 Introduction

1.1 Purpose and Scope of the Project Quality Plan

The Project Quality Management Plan (PQP) contained herein is in accordance with ISO 10005 and shall be read in conjunction with the project Inspection Testing Plan (ITP).

The PQP describes how McM/ASFD Quality Management System (QMS) is implemented and managed throughout the design, manufacture and installation of custom-made aluminium, steel and glazed facades and services in accordance with the project requirements.

Details of testing and inspections that will be carried out during design, procurement and installation of the products are contained in the ITP.

The PQP defines the quality assurance and control procedures adopted to ensure that:

- Company products and services consistently meet the relevant statutory, regulatory and customer requirements.
- Customer satisfaction is enhanced with the effective application of company processes and continuous improvement.
- Internal and external factors along with the needs and expectations of relevant interested parties have been reviewed as part of the IMS to ensure McM /ASFD achieve the intended results.

The implementation of the PQP and ITP in relation to the company quality systems is summarised below.

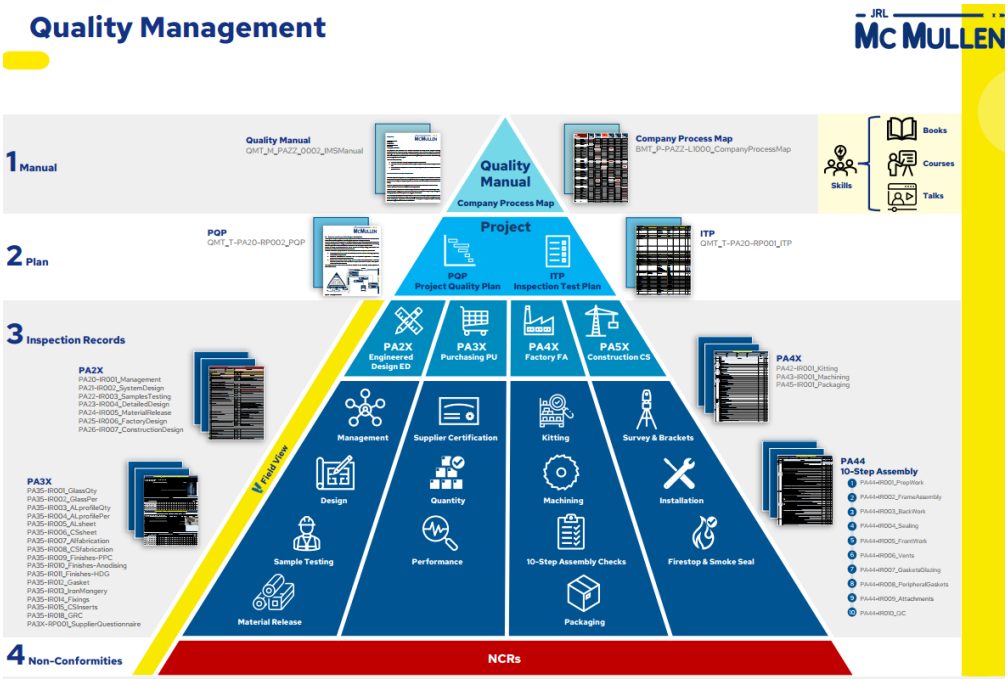


Figure 1: Quality system overview.

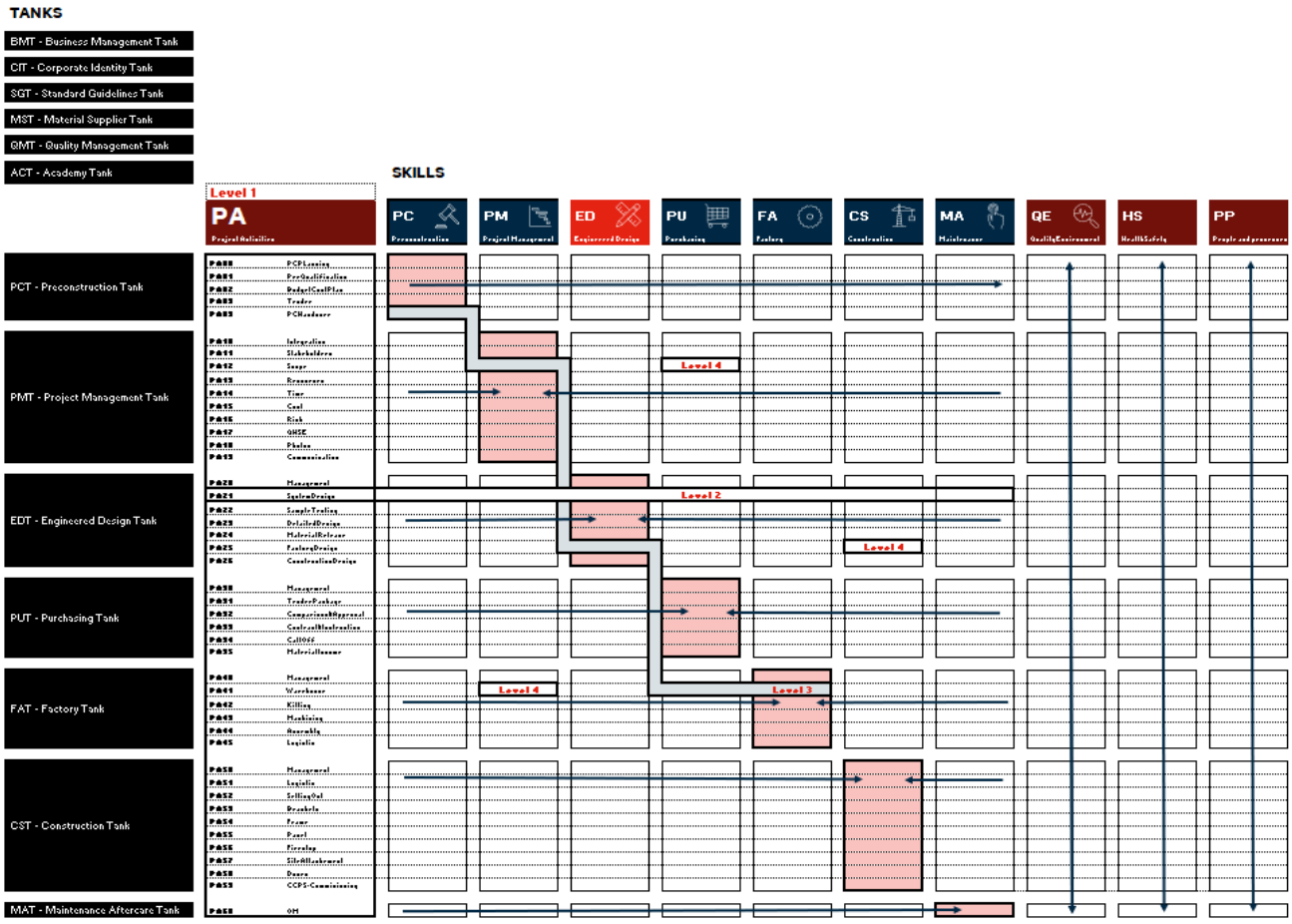
1.2 Project Overview

The project is to construct a part ten, part twenty-eight-storey tower, with ground floor comprising plantrooms, cycle store and bin store, along with 5 townhouses and then twenty-seven floors of apartments. The proposed development consists of 354 residential apartments and associated communal areas. Resident's roof terraces areas are also included at Level 1 and 10.
The project will include landscaped areas around the buildings.

1.3 Scope of Services

McM has been appointed for the design, manufacture, supply and installation of cladding elements as defined in the contract documents. The PQP summarises all procedures implemented to monitor and control the project quality accordingly to the IMS Corporate Process Map below

Figure 2: Corporate Process Map.



1.4 Specific Project Risks

The control strategies of project risks that could result in cost, programme, quality and performance issues potentially having adverse consequences for the organization are assessed and implemented by the Project manager. These are tracked using the project risk and opportunity register that aims to assess risks, define mitigation strategies and allocate responsibilities.

2.0 Resourcing and Communication

2.1 Role, Responsibilities and Authorities

McM is regulated using an Integrated Management System (IMS) that combines sub-systems into one completed framework enabling the organisation to work as a single unit. The integration consists of three main management systems in accordance with ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018.

The company management and operations are structured in business units covering the project phases of preconstruction, design, production and construction. The provision of resources and infrastructure are reviewed regularly to ensure successful implementation of the PQP.

The management group provides the overall strategic direction of the organization creating governance and objectives as well as monitoring performance. This forms the basis for all business processes and operations, which are supervised by the management to ensure their optimal coordination and alignment with the company policies, values and business strategy.

2.1.1 McMullen/ASFD Organisation Chart

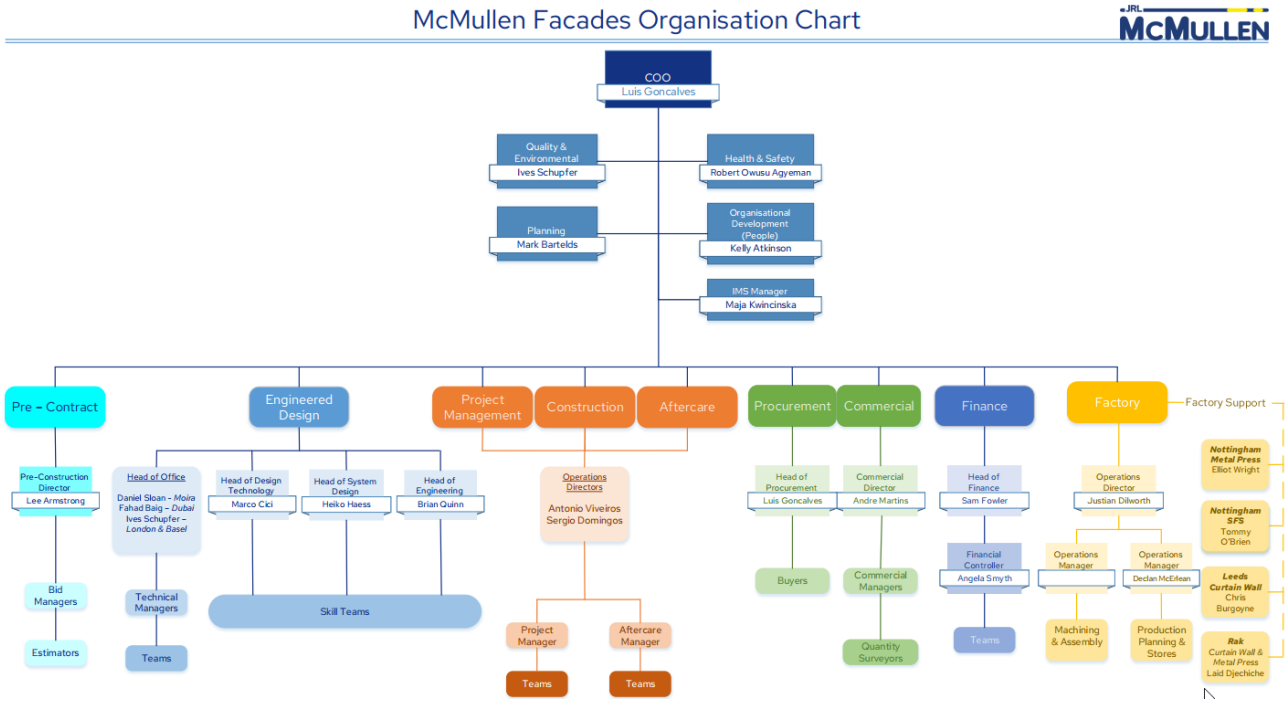


Figure 3: McMullen Organigram.

2.1.2 McMullen/ASFD Organisation Chart

[ProjectTeam chart to be added.]

2.1.3 Project Directory

Role	Name	Contact Number

2.1.4 Project Responsibilities

The **Director** role is responsible for overall aspects of project delivery and representing the company.

Quality Responsibilities

- Communicating a clear project strategy addressing pre-construction, design, commercial, construction, quality, health, safety, and environmental and customer services matters.
- Report on the project to the client team.
- Leading and ensuring effective communication and coordination is happening by all members of the team.
- Be involved in ensuring contractor issues are resolved in the interest of the project.
- Be involved is resolving issues with the design team.
- Be involved in the selecting of key trade contractors.
- Be involved in the quality management processes to ensure a quality product is achieved.
- Involved in meetings internally and with the client.
- Mentor and develop the managers and staff on the project.
- Ensure that all members of the commercial team abide by the company procedures.
- Ensuring that all internal and external reporting is correct and issued in the timescales required.
- Overseeing the procurement process and ensuring that the project requirements of, quality, capability, costs, risk, and programme are met.
- Be involved with the procurement process and ensuring that the project requirements of quality, capability, costs, risk, and programme are met.
- Be involved with agreeing benchmarks with the client.
- Ensuring compliance of contractors and consultants to the contract terms and conditions
- Ensure that all responsibilities within the team are in line with the company procedures.
- Ensuring that the Quality Management System is being maintained on site and the Project Quality Plan is regularly reviewed and updated.
- Ensure that current statutory notices are displayed.
- Resolve complaints and queries quickly and efficiently.
- Comply with the quality policy, processes, and procedures always.
- Attend site induction prior to work on any new site.
- Promote the quality management systems including Field View, Viewpoint for Projects (VfP) and audits.

The **Commercial** role is responsible for all commercial aspects of the project. This role involves:

Quality Responsibilities

- Ensure that all members of the commercial team abide by the company procedures.
- Leading and ensuring effective communication and coordination is happening by all members of the commercial team.
- Be involved in ensuring contractor issues are resolved in the interest of the project.
- Be involved in the quality management processes to ensure a quality product is achieved.
- Involved in meetings with the client.
- Ensuring that all internal and external reporting is correct and issued in the timescales required.
- Overseeing the procurement process and ensuring that the project requirements of, quality, capability, costs, risk, and programme are met.
- Prepare/monitor cost budgets and prices for contract variations/remedial work.
- Communicating and providing advice on variations to contract.
- Ensuring compliance of contractors and consultants to the contract terms and conditions.
- Evaluate/select subcontract tenders.
- Evaluate and score the performance of subcontractors.
- Comply with the quality policy, processes, and procedures always.
- Attend site induction prior to work on any new site.
- Be involved in updating the project risk and opportunity register.

The **Manager** role is responsible for all aspects of project delivery, ensuring that the objectives of the JRL Group and the Client are met. This role involves:

Quality Responsibilities

- Report on the project to the client team.
- Leading and ensuring effective communication and coordination is happening by all members of the team.
- Be involved in ensuring contractor issues are resolved in the interest of the project.
- Be involved in the quality management processes to ensure a quality product is achieved.
- Involved in meetings internally and with the client.
- Ensuring that all internal and external reporting is correct and issued in the timescales required.
- Ensuring that the Quality Management System is being maintained on site and the Project Quality Plan/ITP are regularly reviewed and updated.
- Ensuring that subcontractor quality ITPs and RAMS are approved and are regularly reviewed.
- Ensure that subcontractors have the correct access/equipment and training to use Field View.
- Raise, monitor, and close tasks raised on Field View.
- Manage and monitor the use and close out of Field View forms.
- Ensure that all new arrivals to site attend the site Induction and are given adequate information and instruction.
- Oversee the trade-to-trade handover process in Field View.
- Plan and maintain a tidy site.
- Be involved with agreeing benchmarks with the client.
- Ensure that the correct tools, equipment, and materials are used for the job.
- Ensure that all machinery and plant, including power and hand tools are regularly checked and are in good condition and that any defects are reported to the relevant line manager.
- Ensure that new or transferred employees are briefed with relevant RAMS.
- Ensure that current statutory notices are displayed.
- Control site activities and implement the relevant procedures & work instructions.
- Logging and resolving all customer complaints and queries quickly and efficiently.
- Comply with the quality policy, processes, and procedures always.
- Attend site induction prior to work on any new site.
- Engage with the Quality Team and the quality management systems including Field View, Viewpoint for Projects (VfP) and audits.

Design roles are responsible for the design of the project which includes the in-house team, subcontractors with design responsibility and the novated design team. This role involves:

Quality Responsibilities

- Ensuring effective communication and coordination is happening by all members of the team.
- Be involved is resolving issues within the design team.
- Be involved in the selecting of key trade contractors.
- Be involved in the quality management processes to ensure a quality product is achieved.
- Provide an approved and accurate document approval matrix to the quality team to ensure workflows within VfP are correct.
- Oversee the management of change control.
- Oversee the management of RFI's, MAR's and technical submissions on Viewpoint for Projects.
- Providing support and advice for the close out of non-conformances.
- Oversee the value engineering of the project.
- Ensuring compliance of contractors and consultants to the contract terms and conditions
- Reviewing design information between the consultants and specialist contractors and vice versa
- Participate in the design meetings.
- Ensuring that the design can achieve the desired quality and meets the ER's.

- Comply with the quality policy, processes, and procedures always.
- Attend site induction prior to work on any new site.

The project **Operative** role is responsible for conducting their work in accordance with company policies and processes as well as site specific RAMS and procedures. This role involves:

Quality Responsibilities

- Be involved in the quality management processes to ensure a quality product is achieved.
- Ensure the understand and sign the RAMS.
- Comply with the quality policy, processes, and procedures always.
- Attend site induction prior to work on any new site.
- Keep tools and materials in good condition.
- Report to supervisor any defects in plant, equipment, or materials.
- Avoid any improvisation which may affect quality.

The **Engineering** role is responsible for ensuring that the project specification is being met. This role involves:

Quality Responsibilities

- Leading and ensuring effective communication and coordination is happening by all members of the team.
- Ensure positions of all elements are set out as per project requirements.
- Be involved is resolving issues with the design team.
- Produce and assess as built information.
- Provide remedial proposals where required.
- Arrange inspections and tests where required.
- Be involved in the quality management processes to ensure a good quality product is achieved.
- Oversee the value engineering of the project.
- Comply with the quality policy, processes, and procedures always.
- Attend site induction prior to work on any new site.
- Ensure that the correct tools and equipment are in good condition and calibrated where necessary.
- Maintain the calibration register.
- Raise, monitor, and close tasks raised on Field View.
- Complete and close out of Field View forms.
- Be involved with the trade-to-trade handover process in Field View.
- Ensure that all necessary surveys are arranged and carried out.

The **supervisor** role is responsible managing the operatives in accordance with company policies and processes as well as site specific RAMS and procedures. This role involves:

Quality Responsibilities

- Leading and ensuring effective communication and coordination is happening by all members of the team.
- Be involved in the quality management processes to ensure a quality product is achieved.
- Ensure that all new arrivals to site attend the site Induction and are given adequate information and instruction.
- Plan and maintain a tidy site.
- Raise, monitor, and close tasks raised on Field View.
- Manage and monitor the use and close out of Field View forms.
- Ensure that all machinery and plant, including power and hand tools are regularly checked and are in good condition and that any defects are reported to the relevant line manager.
- Ensure that new or transferred employees are briefed with relevant RAMS.
- Control site activities and implement the relevant procedures & work instructions.
- Comply with the quality policy, processes, and procedures always.
- Attend site induction prior to work on any new site.
- Ensure that the correct tools and equipment are used for the job.

- Keep tools in good condition.
- Ensure that the correct materials are on site, in good condition and stored in line with the manufacturer's specifications.

The **admin** role is to support the project functions by:

Quality Responsibilities

- Building relationships with residents.
- Be involved in the quality management processes to ensure a quality product is achieved.
- Comply with the quality policy, processes, and procedures always.
- Maintain project records/reports.
- Oversee the use of VfP.
- Quality check design information prior to comment.
- Overseeing office equipment/stationery orders.
- Attend site induction prior to work on any new site.

The **Pre-Construction** role is planning the project considering methodology, logistics and programme. This role involves:

Quality Responsibilities

- Engage with the quality department at tender stage.
- Proposed methodology to be in line with ER's and project specifications.
- Proposing subcontract orders ensuring that the project requirements of, quality, capability, costs, risk, and programme are met.
- Propose value engineering solutions of the project.
- Comply with the quality policy, processes, and procedures at all times.
- Initiate the risk and opportunity register.
- Develop the temporary works register.
- Attend site induction prior to work on any new site.

The **Procurement** role oversees the process of selecting subcontractors for the group. The roles also involve:

Quality Responsibilities

- Be involved in the selecting of competent key trade contractors.
- Overseeing the procurement process and ensuring that the project requirements of, quality, capability, costs, risk, and programme are met.
- Evaluate/select subcontract tenders.
- Evaluate and score the performance of subcontractors and suppliers.
- Comply with the quality policy, processes, and procedures at all times.
- Attend site induction prior to work on any new site.

2.2 Communication

All company personnel are responsible to ensure the continued effectiveness and improvement of the company quality system via effective communication as described in internal policies.

2.2.1 Communication table

Information type to be communicated	Communication Mechanism / Action	Responsibility	Communicated to
Group IMS Policy & Expectations	PLAN-IT	HSQE Management	All employees
Risks & Opportunities	Meetings, toolbox talks	Management Team	All employees

IMS/ PQP Objectives	Meetings, toolbox talks	HSQE Management	All employees
Task Requirements	Procedures, Instructions, etc.	Process Owner / HSQE Management	All employees
Notification of Legal, regulatory & other Required Changes (general)	Email notifications; management/ employee meetings, toolbox talks	Project Managers / HSQE Management	Client / All employees
Changes to Contract / scope of works	Written as required	Commercial Managers	Client / All employees
Findings from Audit & Assessment Activities	Management/employee meetings, toolbox talks	HSQE Management	Management
Findings from the Investigation of nonconformities and corrective actions taken	Bulletin board Postings; management/ employee meetings, toolbox talks	HSQE Management	Client / All employees
Responses to customer complaints, including the results of actions taken.	Communication as needed. Format as appropriate to the issue identified	Project Managers / HSQE Management	Client / All employees
QE Team Meeting	Teams Task Agenda	QE representative	PA Representatives
Progress Reports – internal & external	Project Team meeting minutes/ Q Drive	Project Manager	Senior Management/ Client
Weekly Project Teams Meetings : progress, quality, design, commercial	Meeting Minutes saved on Q drive.	Project Manager	All involved in the project
Daily Allocation Briefing	Meetings	Site Manager	All involved in the project
Subcontractor Progress Report	Meeting Minutes saved on Q drive.	Project Manager	All involved in the project

2.3 Competence, awareness and training

Training matrixes are created to identify training criteria and requirements of all staff.

The quality management department reviews the training matrix annually to ensure that all personnel are suitably trained and qualified in respect to the latest developments and technology relevant to the company products and services.

The project manager is responsible to ensure that all project staff is suitably trained to complete their tasks.

3.0 Quality Management

3.1 Quality Policy and QMS

The quality management department acts as a regulator and controller party and all company staff and suppliers are supervised and encouraged to proactively implement, monitor and continually improve the company quality procedures.

Quality is coordinated via a Quality Management System (QMS) that creates, implements and controls the processes required to ensure the continual improvement and effectiveness of the company in accordance with its objectives.

The project quality management is based on the quality plan encompassing three major processes:

Quality planning

It consists of identifying the project quality requirements and standards and consequently define roles and tasks of all stakeholders.

Quality assurance

It comprises administrative and procedural activities aiming to ensure that the product or service requirements will be fulfilled. It defines systematic measurements, monitoring of processes and associated feedback loops to prevent product non-compliances.

Quality assurance activities focus on defining processes used to manage and deliver solutions whilst evaluating the project and specific activities performance at defined intervals or quantities. It also defines procedures to evaluate causes of unsatisfactory results and establish lessons learned to prevent similar issues occurring in the future.

Quality control

Control activities are performed in accordance to the quality assurance procedures with the aim to verify that project deliverables meet the quality requirements and standards, therefore that quality levels are maintained within acceptable ranges.

McM QMS is implemented in accordance with ISO 9001. The QMS is part of the Integrated Management System (IMS) that is established and certified by the accredited body.

A copy of the ISO certificates is included in annexes: ISO 9001, ISO 14001 and ISO 45001.

The QMS comprises the following information:

- Company organisation charts
- IMS processes
- Quality policy and objectives
- Quality Manuals
- Project Quality Plans (PQP)
- Inspection and Testing Plans (ITP)
- Inspection records
- Method statements
- Audit reports
- Factory production control documentation
- CE certificates

3.2 Quality Objectives and KPIs

The key quality objective is running a sustainable business that delivers projects in line with project and legal requirements, whilst achieving the satisfaction of our customers, minimising non-conformities, continuously optimising processes and improving our supply chain.

Each project performance is measured via constant monitoring and controlling. The key performance indicators evaluated to effectively manage projects are:

- Quality project reviews outcome.
- Internal and external audit reports.
- Monthly progress reports including:
- Technical issues related to design, procurement, production and installation.
- Commercial and contractual matters.
- Project progression against programme and cashflow.
- NCRs, reaction time and quality of solutions.

3.3 Audits

The Group quality management department is responsible to plan yearly internal and external audits.

The audit plan and reports are centralised on Q:\02-Skill\70-QualityEnvironmental-QE\03-Audits

3.3.1 First Party Audits

The purpose of internal audits is to ensure that the quality management system:

- conforms to ISO 9001 and company requirements.
- is effectively implemented, understood and maintained.
- identifies system deficiencies and opportunities for improvement.

Audits frequency is defined by activity and priorities. Audits are carried out by qualified staff independent to the activity being audited.

Project related audits are completed based on internal checklists and procedures. The audit checklist facilitates a scoring system. All audits are centralised and shared across project via Q:\02-Skill\70-QualityEnvironmental-QE\03-Audits

Where a deficiency with significant impact, reoccurring deficiencies are observed or an opportunity for improvement is identified, possible actions are defined, assessed and implemented via the company corrective action system within a timescale agreed between the relevant departmental responsible and the auditor.

The internal audits outcome is an important quality KPI that is discussed in internal project meetings and company management reviews.

3.3.2 Second Party Audits

Audited by McMullen/ASFD

Supplier and Sub-contractor Audits

To ensure that the suppliers are qualified and their products and services are in line with the project requirements, suppliers are audited on a non-project basis accordingly to an internal audit programme defined by the supply chain quality department. The supplier information is collected in a SupplierDatabase/ COINS, where each supplier is rated based risks and opportunity assessments.

The project manager is responsible to review the available audit information and coordinate further project related audits for suppliers or products that have not been previously assessed.

Audits to McM/ASFD

If the Client requests an audit to McM/ASFD, it shall be carried out accordingly to an agreed time schedule. Prior to the audit, the Client shall provide an audit plan including all items that are expected to be reviewed.

Third Party Audits

Third party audits are carried out periodically by notified bodies based on harmonised Standards and ISO management audits. Comments and non-compliances are addressed to ensure the management system and products are certified.

3.4 Non-Conformity Management

Quality management procedures are defined to identify and assess project non-conformities. A collaborative and no-blame culture is encouraged to ensure these are reported and adequately managed. The project manager is responsible for the coordination of remedial actions depending on the type and extent of the non-conformity.

Non-conformities are classified by type as described below.

3.4.1 Non-conformities

Company procedures are established and maintained to minimise the number and magnitude of non-conformities against project and legal requirements. Inspection records are implemented at each step of the project to classify and manage any identified or suspected non-conformity, which details are recorded in non-conformance reports (NCRs).

Any NCR is distributed to the appropriate department for a detailed assessment and actions.

Evidence of the NCR resolution and outcome of any required re-inspection are recorded in a centralised manner using FieldView. The NCR data is then reviewed by the quality manager to evaluate an optimal course of actions to prevent similar instances re-occurring in the future.

Non-conformities potentially having an impact on other trades are processes as external NCR and distributed to the Client for information or coordination.

Non-conformities that can be resolved without affecting other trades are classified as internal NCR and are distributed internally only.

a) Non-conforming materials

Products are inspected accordingly to the ITP. Where a non-conformity is identified, an NCR is to be completed. Installation of non-conforming materials is to be avoided unless approved by the project manager. The quality team is responsible to coordinate its assessment and resolution based on the dispositions below:

- Reworked to meet the specified requirements.
- Accepted with or without repair by concession.
- Re-graded for alternative application. The Project manager is responsible for agreeing the corrective actions with the Client. Any re-grading of a specified product shall be confirmed by the Client.
- Rejected or scrapped.

The NCR remedial action and any required re-inspection are recorded and archived in the project folder.

b) Site Damages

In the event of damages to any company products caused by other trades or McMullen, an NCR is completed to record the details of the damage. These NCRs are coordinated by the project manager.

c) Non-conforming processes

These Non-conformities are run internally and record inconsistency or negligence in following processes.

3.5 Preservation of product

A preservation of product process has been developed that defines how products are:

- Identified
- Handled
- Packaged
- Stored
- Protected
- Transported

The effectiveness of the preservation of product process is reviewed in line with the quantity and frequency of non-conformances that result in deviations from correct handling, packaging or storage methods or issues resulting from misidentification.

3.6 Continuous Improvement

Non-compliances data is collected by the quality management which coordinates further studies to evaluate how similar instances can be minimised or avoided.

As part of the Continuous Improvement Scheme any employee is encouraged to submit ideas and proposal for improvements using a CIP form to the quality team that will coordinate its assessment.

The solutions considered to be a viable improvement are further developed and implemented.

4.0 Project Delivery

4.1 Project Input

Projects inputs are described in the contract and agreed with the Client at tender stage.

These are managed by a project manager in accordance with internal department procedures.

A dedicated document controlling team distributes all project input to the relevant departments. If any missing, incomplete or unclear information, each department is asked to inform the project manager and complete a RFI form distributed to the Client by the document controlling team.

4.2 Scope Changes

Changes in the scope of work or to any Contractual document need to be instructed by the Client and are managed via the internal variation process that describes how to the evaluate, coordinate and initiate any change to the Contract. The project manager and commercial team are to review the information and inform the Client about change implications.

If the project team is requested to implement a change or is aware of a possible change not yet instructed, an Instruction Request shall be issued by McM.

4.3 Project Control

The Project Manager is responsible to monitor and control the project progresses, help coordinating the team and report to the Operations Director. Internal project management processes and liability assessment matrixes supports the Project Manager in his tasks.

Additionally, each department has an appointed team leader that coordinates the work against a detailed plan of work and communicate with the Project Manager on a daily basis where required. There are also a regular meeting booked in each Project between the Project Manager and the team leader in each department to ensure coordination in the Project.

4.4 Manage Project Deliverables

The project deliverables are overviewed by the Project Manager. Internal project management processes and liability assessment matrixes support the Project Manager in his tasks.

Each department is responsible to monitor and control their progresses against the programme and ensure that their deliverables comply with the project requirements and programme.

4.5 Internal Review and Approval

Each document prepared by McM to be shared externally is reviewed and approved before being distributed. This is recorded in each document revision section adding initials of the staff that prepared the document, reviewer and approver. Reviewers and approvers are appointed by the department director based on resources availability, project involvement, seniority and specialisation.

Each department director is responsible to ensure that the approval process is followed by all staff.

5.0 Document Information Management

5.1 Design Information

JRL Group uses Viewpoint for projects to control drawings, documents, and records. The JRL Group naming protocol is to be implemented for all design information.

5.2 Computer Network File Structure

A dedicated project folder is created on the company server and named with a unique project number and name. Details of folders and file naming procedures are described in the company policies. At project completion the folder will be archived.

5.3 Document Information Management Process

Any formal document issued or received by McM is controlled, registered, archived and distributed by the document controlling department.

5.4 Inputs, Outputs and Transmittals

The document controlling team forward transmittals to the Client keeping internal records of the exchange on an internal platform called DocumentRegister.

6.0 Project Deliverables

The project deliverables are agreed at tender stage and are part of the contract. Refer to the contract documents for a list of project deliverables.

7.0 Approval Requirements

The project comprises a series of activities, each subdivided in tasks. Each task is described by department flowcharts that explain procedures and highlight the approval steps and requirements.

Approvals requirements by Client or externals are regulated by the contract.

Internal approval procedures are defined in the department flowcharts and company policies. The project manager is responsible to ensure that approval procedures are followed.

8.0 Distributing Deliverables

Documents are distributed and transmittals recorded by the document controlling team in accordance with the internal and contract procedures.

Products are delivered based on an approved logistic and construction plan. The project manager is responsible to coordinate the project team to comply with the contract agreements.

The ITP provides a detailed description of the documents delivered with the products.

9.0 Change Management

It is the Client responsibility that all changes are instructed in accordance to the Contract.

Each project team department should highlight any potential or current change to the project manager, which will run coordinate its assessment with the commercial team.

The project manager collects all relevant data and if the change has not been instructed, an instruction request shall be prepared and forwarded to the Client. The instruction request is managed by the project manager in accordance to the variation internal process.

Any changes instructed to McM are reviewed by the project manager and coordinated with the project team as required.

10.0 Product Identification and Traceability

The incoming material, fabrication and assembly activities are controlled via inspection records that are reviewed against the project requirements. These are implemented to ensure that each component of the finished assemblies is compliant with the related harmonised Standard and project requirements.

Each curtain walling unit is accompanied by an inspection record that defines its unique identification number. These records are stored on a server and can be accessed via a QR code sticker on each unit.