

[CompanyName]

Quality Assurance/Quality Control Plan

[ProjectName] [ProjectNumber]

Version: 20141209

Effective Date: 20141209

Version	Version notes
20141209	Initial issue

Approved
[QualityManagerName], Quality Manager

Documents provided by [CompanyName] disclose proprietary information as well as copyright information registered with the U.S. Patent and Trademark Office. Please hold these documents in confidence and do not share them with other organizations, even if you do not charge a fee. Submittal of documents does not transfer copyright ownership.

PROJECT-SPECIFIC CONSTRUCTION QUALITY PLAN TABLE OF CONTENTS

Background Information	7
Customer	7
Project Name	7
Project Number	7
Project Location	7
Overall Project Description	7
[CompanyName] Scope of Work	7
A. [CompanyName] Quality Policy	8
B. Key Elements of the Construction Quality Plan	9
Project Quality Assurance/Quality Control Plan Overview	12
C. Project Quality Coordination and Communication	13
D. Project OC Personnel	17
Project QC Job Position Assignments	17
Project QC Organization Chart	1/
E. Duties, Responsibilities, and Authority of QC Personnel	
F. Personnel Qualifications and Technical Certifications	
G. Qualification of Third Party Inspection/Testing Companies and Subcontractors and Suppliers	27
Construction Inspection/Testing Laboratory Qualification Requirements	27
Qualification	27
Purchase Order Approval	28
H. Quality Training	30
I. Construction Project Quality Specifications	
Local construction Codes	
J. Material Inspection Traceability and Quality Controls	35
Identification of Lot Controlled Materials	35
Customer Supplied Materials	35
Material Receiving and Inspection	35
Preservation of Materials and Completed Work	36
K. Construction Equipment	40
L. Construction Inspection and Test Plan	
Calibration of Inspection, Measuring, and Test Equipment	
M. Work Task Quality Inspections	45
Identification of Quality Inspected Work Tasks	45
Required Inspections For Each Work Task	45
Daily Quality Control Report	46

N. Control of Corrections and Nonconformances	50
Marking of Nonconformances and Observations	50
Control the Continuation of Work	50
Recording of Nonconformances	50
Quality Manager Disposition of Nonconformance Reports	51
Corrective Actions	51
Nonconformance Preventive Actions	52
O. Project Completion Inspections	54
Punch-Out QC Inspection	54
Pre-Final Customer Inspection	54
Final Acceptance Customer Inspection	55
P. Project Quality Records and Documents	58
Q. Quality Assurance Surveillance	1
Project Quality Performance Surveillance	1
Project Quality Audits	1
Project Audit Plan	
Project Audit Requirements	
R. Additional Quality Control Requirements	_
A. Additional Quality Control Requirements	

B. KEY ELEMENTS OF THE CONSTRUCTION QUALITY PLAN

Key elements of the [CompanyName] Quality Assurance/Quality Control Plan include:

Quality Management and Responsibilities. [CompanyName] fully integrates its quality management system into the organizational structure and performance management systems for each project. We:

- Maintain a documented quality system consisting of a quality manual with policies and procedures.
- Tightly control exceptions to the quality system so company standards are applied uniformly to every project
- Systematically maintains quality system documents and records.

Quality Control Personnel. [CompanyName] fully integrates its quality management system into the organizational structure and performance management systems for each project. We:

- Appoint a Quality Manager, Superintendent, and Project Manager to each project, each with well-defined quality responsibilities and the authority to carry them out.
- Have well-defined quality responsibilities for every employee with specific quality responsibilities for key job positions.
- Plan project quality records and documentation that will be maintained.
- Tightly control exceptions to the quality system so company standards are applied uniformly to every project
- Enforce policies that monitor work conditions before and during work so that quality results are assured.

Project Quality Coordination and Communication. [CompanyName] tightly controls the construction process to ensure quality results. We:

- Plan quality communications through meetings, reporting requirements, and points of contact.
- Have a project startup meeting to communicate project goals and expectations.
- Conduct preparatory meetings in advance of each scheduled work task to communicate requirement details and coordinate work activities.

Quality Assurance Surveillance. [CompanyName] audits the quality system to assure it is operating effectively. We:

- Audit the operation of the quality system on each project for conformance to the Project Quality Assurance/Quality Control Plan and the [CompanyName] Quality System requirements.
- Conduct annual company-wide audits to evaluate effectiveness of the [CompanyName] Quality System and improve its operation.

Employee Qualifications. [CompanyName] ensures that only knowledgeable, capable employees carry out the planning, execution, and control of our projects. We:

- Identify employee qualification requirements, including licensing requirements, training qualifications, responsibilities, and authority for each job position.
- Train field employees on quality standards and procedures for their job position.
- Validate employee capabilities before they are assigned to carry out quality job responsibilities.

Review ongoing employee qualifications and evaluate quality practices and performance as part of the employee performance management process.

Qualification of Subcontractors and Suppliers. [CompanyName] purchases only from subcontractors and suppliers that consistently meet [CompanyName] standards for quality. We:

- Clearly define outside organization qualification requirements including licensing requirements, compliance with specific quality standards, quality responsibilities, qualification of personnel and quality improvement processes.
- Validate capabilities to meet project quality requirements at planned production levels.
- Verify ongoing quality performance.

Project-Specific Quality Standards. [CompanyName] clearly defines standards and specifications that apply to each project. We:

- Identify all relevant regulations, codes and industry standards.
- Identify specifications for materials that meet contract as well as regulatory requirements.
- Specify quality and certification requirements for materials and equipment that affect quality.
- Identify special requirements for calibration of quality measuring devices.
- Supplement the contract and published standards with [CompanyName] quality standards as required to reduce quality risks and assure quality results.

Inspections and Test Plan. [CompanyName] quality inspection processes ensure that all work activities comply with the documented standards and specifications. We:

- Identify inspections and tests required by contract specifications and industry standards.
- Record the result of each quality inspection and test.
- Use independent laboratories certified by nationally recognized accreditation agencies

Work Task Quality Inspections. [CompanyName] quality inspection processes ensure that all work activities comply with the documented standards and specifications. We:

- Identify required quality inspections and tests at key milestones during the project.
- Identify each work task that is subject to a series of quality inspections and quality control activities
- Conduct a series of quality inspections for each construction task: before work begins, at first article completion, while work is in process, and at completion.
- Inspect all materials before use.
- Record the result of each work task inspection.

Quality Control of Corrections and Nonconformances. [CompanyName]

nonconformance control processes ensure that we prevent all nonconformances from cover-up, inadvertent use, and corrected. We:

E. Personnel Qualifications

[CompanyName] ensures that only knowledgeable, capable employees carry out the planning, execution, and control of the project.

We train our employees on quality standards and procedures based on project requirements as well as their job positions. Then we validate their capabilities before they are assigned to carry out their quality job responsibilities on the project. Ongoing monitoring of performance continually validates qualifications of each employee.

The Quality Manager qualifies employee capabilities to ensure that they are capable of completely carrying out their assigned quality responsibilities including the following capabilities:

- Knowledge of Company quality standards
- Knowledge of job responsibilities and authority
- Demonstrated skills and knowledge
- Demonstrated ability
- Demonstrated results
- Required training
- Required experience

The Quality Manager also evaluates independent contractor personnel on the same standards that apply to employees.

TRAINING

We train our employees on quality standards and procedures based on project requirements as well as their job positions. Then we validate their capabilities before they are assigned to carry out their quality job responsibilities on the project. Ongoing monitoring of performance continually validates qualifications of each employee.

After a training activity is completed, [CompanyName] keeps of record of both the training activity and the training participants.

I. CONSTRUCTION WORK TASK QUALITY INSPECTIONS

[CompanyName] identifies a list of work tasks, phases of production, which will be quality controlled.

WORK TASKS SERIES OF INSPECTIONS

Each work Task is subject to a series of inspections; before, during, and after the work is complete. Each inspection verifies compliance with full scope of the relevant specifications; not limited to checkpoints for heightened awareness.

- The initial task-ready inspection occurs when crews are ready to start work and ensures that work begins only when it does not adversely impact quality results.
- Incoming material inspections verify that materials are as specified and meet all requirements necessary to assure quality results.
- Work-in-process inspections continuously verify that work conforms to project specifications and workmanship expectations. Work continues only when it does not adversely impact quality results
- At completion of the Task an inspection verifies that work, materials, and tests have been completed in accordance with project quality requirements. When appropriate, functional tests are performed.

Inspection results are recoded and maintained as part of the project files.

SPECIAL PROCESS INSPECTIONS

The Quality Manager identifies special processes where the results cannot be verified by subsequent inspection or testing and determines if continuous work in process inspections are required. For these special processes, a qualified inspector continuously inspects the work process.

MATERIAL QUALITY INSPECTION AND TESTS

Material quality inspections and tests ensure that purchased materials meet purchase contract quantity and quality requirements.

DAILY QUALITY CONTROL REPORT

The Superintendent records a summary of daily work activities. The report will include:

- Schedule Activities Completed
- General description of work activities in progress.
- Problems encountered, actions taken, problems, and delays
- Meetings held, participants, and decisions made
- Subcontractor and Supplier and Company Crews on site
- Visitors and purpose
- General Remarks
- Improvement Ideas
- Weather conditions

		ompanyName] Production Report
	-	Version 20141209
Project ID	Project Name	Preparer*/Date
[ProjectNumber]	[ProjectName]	
		and correct and equipment and material used and work performed during this reporting ons to the best of my knowledge except as noted in this report.
		Description
Job-ready and WIP Inspections (Active work tasks)		6
Work Tasks Completion Inspections		200
Sampling/Tests Performed		
Nonconformance Reports		
Problems encountered, actions taken, problems, and delays		
On Site Subcontractors and Suppliers, Company Crews, and Visitors		
Meetings held and decisions made	-0,0	
General Remarks and improvement ideas	5	
Weather conditions	Temperature: Low: Precipitation: ☐ No ☐	

Worl	[CompanyName] k Task Inspection Fo	rm
	Version 20141209	
Work Task :		
Project: Id# [ProjectNumber]	Project Name: [ProjectName]	Subcontractor and Supplier Company ID/Name:
Location/Area:	Reference drawing version #:	Crew ID/Name
Compliance Verification Compliance with initial job-ready requirements Compliance with material inspection and tests Compliance with work in process first article inspection requirements Compliance with work in process inspection requirements Compliance with work task completion inspection requirements Compliance with inspection and test plan Production Notes:	Heightened Awareness Checkpo	startup and preparatory meetings]
Reported Nonconformances:	*69,	
Verification	of Work Task Completion (sign	and date)
Subcontractor and Supplier Sign and date*: Work task verified complete to specifications (sign and date)	2	
Project Superintendent Sign and date*: Work task verified complete to specifications (sign and date)		
Project Superintendent score subcontractor/crew performance and feedback notes	Quality: 5 4 3 2 1 Safety: 5 4 3 2 1 Delivery: 5 4 3 2 1	
Quality Manager Sign and date*: Work task verified complete to specifications (sign and date)		
Quality Manager score quality performance and feedback notes	Quality: 5 4 3 2 1	
* On behalf of the contractor, I certify that this report is corperiod is in compliance with the contract drawings and spe		

[CompanyName]

Construction

Quality Manual

Operating Policies of the [CompanyName] Quality System

Version: 20141209

Approval Signature and Date:		
	President/ Date	

Documents provided by [CompanyName] disclose proprietary information as well as copyright information registered with the U.S. Patent and Trademark Office. Please hold these documents in confidence and do not share them with other organizations, even if you do not charge a fee. Submittal of documents does not transfer copyright ownership.

QUALITY MANUAL

TABLE OF CONTENTS

1. Quality System Management and Responsibilities	6
1.1. Overview	6
1.2. [CompanyName] Quality Policy	
1.3. Quality Duties, Responsibilities, and Authority	
1.4. Quality System Performance Measures	9
1.5. Customer Satisfaction Performance Measures	9
1.6. Exceptions	9
2. Project Quality Assurance/Quality Control Plan	10
2.1. Overview	10
2.2. [CompanyName] Project License and Qualification Requirements	
2.3. Project Personnel and Qualifications	11
2.4. Project Quality Assurance/Quality Control Plan	12
2.5. Identification of Quality Controlled Work Tasks	12
2.6. Project Quality Inspection and Test Plan	12
2.7. Project Quality Communications Plan	
2.8. Project Quality Training Plan	
2.9. Customer Training On Operation and Maintenance	13
2.10. Project Records and Documentation Plan	
2.11. Project Audit Plan	
3. Contract Specifications	14
3.1. Overview	14
3.2. Contract Technical Specifications	
3.3. Contract Drawings	
3.4. Contract Submittals	14
3.5. Customer Submittal Approval	16
3.6. Contract Warranty	17
3.7. Contract Review and Approval	17
4. Design Review and Control	18
4.1. Overview	18
4.2. Design Input Review	18
4.3. Project Design Quality Assurance/Quality Control Plan	18
4.4. Design Progress Reviews	19
4.5. Design Output Verification and Approval	19
5. Project-Specific Quality Standards	20
5.1. Overview	20
5.2. Regulatory Codes	20

5.3. Industry Quality Standards	20
5.4. Material Specifications	20
5.5. Equipment Specifications	21
5.6. Work Process Specifications	21
5.7. Controlled Material Identification and Traceability	21
5.8. Measuring Device Control and Calibration	22
5.9. [CompanyName] Quality Standards	22
5.10. Application of Multiple Sources of Specifications	22
6. Project Purchasing	23
6.1. Overview	23
6.2. Qualification of Outside Organizations and Company Departments	23
6.3. Quality Responsibilities of Key Subcontractor and Supplier Personnel	24
6.4. Requirements for Subcontractor QC Plan	25
6.5. Subcontractor and Supplier Quality Policy	
6.6. Project Subcontractor and Supplier List	26
6.7. Purchase Order Requirements	26
6.8. Project Purchase Order Approvals	26
7. Process Controls	27
7.1. Overview	27
7.2. Project Startup and Quality Control Coordination Meeting	
7.3. Preparatory Project Quality Assurance/Quality Control Plan Planning	
7.4. Weekly Quality Planning and Coordination Meetings	
7.5. Process Control Standards	28
7.6. Daily Quality Control Report	30
7.7. Monthly Quality Control Report	30
8. Inspections and Tests	
8.1. Overview	31
8.2. Required Work Task Quality Inspections and Tests	
8.3. Material Inspections and Tests	31
8.4. Work in Process Inspections	32
8.5. Work Task Completion Inspections	32
8.6. Inspection of Special Processes	33
8.7. Independent Measurement and Tests	33
8.8. Commissioning Functional Acceptance Tests	
8.9. Hold Points for Customer Inspection	33
8.10. Quality Inspection and Test Specifications	
8.11. Inspection and Test Acceptance Criteria	
8.12. Inspection and Test Status	
8.13. Independent Quality Assurance Inspections	
8.14. Inspection and Test Records	
8.15. Project Completion and Closeout Inspection	35
9. Nonconformances and Corrective Actions	37

9.1. Overview	37
9.2. Nonconformances	37
9.3. Corrective Actions	38
10. Preventive Actions	40
10.1. Overview	40
10.2. Identify Preventive Actions for Improvement	40
10.3. Train Preventive Actions for Improvement	40
11. Quality System Audits	42
11.1. Overview	42
11.2. Project Quality System Audit	42
11.3. Company-wide Quality System Audit	42
12. Record and Document Controls	44
12.1. Overview	44
12.2 Quality System Documents	44
12.3. Document Controls	44
12.4. Record Controls	45
13. Appendix	47
13.1. Definitions of Terms	47

7. Process Controls

HOW WORK IS CARRIED OUT

7.1. OVERVIEW

The construction process plan defines how project work is to be done and approved for the overall project. The construction process plan is communicated to all key personnel, subcontractors and suppliers in a startup meeting. As the project proceeds, work task plans provide additional details of how each individual work task is carried out. Work tasks planning meetings are used to communicate expectations of the work task plan to key personnel responsible for carrying out the work task.

7.2. PROJECT STARTUP AND QUALITY CONTROL COORDINATION MEETING

Prior to the commencement of work, the Project Manager holds a meeting to discuss and coordinate how project work will be performed and controlled. Key personnel from [CompanyName], subcontractors and suppliers meet to review expectations for project quality results as well as quality assurance and quality control policies and procedures including:

- Key requirements of the project
- The Project Quality Assurance/Quality Control Plan
- Required quality inspections and tests
- The project submittal schedule
- Quality policies and heightened awareness of critical quality requirements
- Project organization chart and job responsibilities
- Methods of communication and contact information
- Location of project documents and records

7.3. PREPARATORY PROJECT QUALITY ASSURANCE/QUALITY CONTROL PLAN PLANNING

7.3.1. WORK TASK REQUIREMENTS REVIEW

In preparation for the start of an upcoming work task, the Superintendent reviews an integrated and coordinated set of documents that collectively define quality requirements for the work task including:

- Objectives and acceptance criteria of the work task
- Quality standards that apply to the work task
- Work instructions, process steps, and product installation instructions that apply to the work task
- Shop drawings
- Submittals
- Tools and equipment necessary to perform the work
- · License, certification, or other qualification requirements of personnel assigned to work
- Required records of the process and resulting product
- The subcontractor contracted to perform the work, if applicable
- Customer contract requirements
- Required quality inspections and tests
- Method for clearly marking nonconformances to prevent inadvertent use
- Location of quality system records and documents
- Personnel training

7.3.2. PREPARATORY SITE INSPECTION

The Superintendent also performs a quality inspection of the work area and:

- Assesses completion of required prior work
- Verifies field measurements
- Assures availability and receiving quality inspection status of required materials
- Identifies any nonconformances to the requirements for the work task to begin
- Identifies potential problems

7.3.3. WORK TASK PREPARATORY QUALITY PLANNING MEETINGS

Prior to the start of a work task, the Superintendent conducts a meeting with key company, subcontractor personnel responsible for carrying out, supervising, or inspecting the work, and interested customer representatives.

During the meeting, the Superintendent communicates the work task quality requirements and reinforces heightened awareness for critical requirements. Topics for a work task quality plan meeting include:

- Conflicts that need resolution
- Required quality documents and a verification of availability to personnel carrying out, supervising, or inspecting the work task
- · Record keeping requirements and the availability of necessary forms
- Review methods and sequences of installation
- Special details and conditions
- Standards of workmanship
- Heightened awareness of critical quality requirements
- Quality risks
- Work tasks quality inspection form

7.4. WEEKLY QUALITY PLANNING AND COORDINATION MEETINGS

9. Nonconformances and Corrective Actions

9.1. OVERVIEW

Should a nonconformance be identified by an inspection there is a systematic method to control the item, correct it, and ensure that project quality is not adversely impacted by the event.

A nonconformance is any item that does not meet project specifications or [CompanyName] Quality System requirements.

9.2. Nonconformances

9.2.1. MARKING OF NONCONFORMANCES AND OBSERVATIONS

When the Quality Manager, Superintendent, inspector, or customer identifies a nonconformance or an observation, the item is quickly and clearly marked by tape, tag, or other easily observable signal to prevent inadvertent cover-up.

9.2.2. CONTROL THE CONTINUATION OF WORK

After the item is marked, the Superintendent determines if work can continue in the affected area:

CONTINUE WORK: When continuing work does not adversely affect quality or hide the defect, work may continue in the affected area while the disposition of the item is resolved. The Superintendent may place limitations on the continuation of work.

STOP WORK ORDER: When continuing work can adversely affect quality or hide the defect, work must stop in the affected area until the disposition of the item resolved. The Superintendent identifies the limits of the affected area. The Superintendent quickly and clearly identifies the boundaries of the stop work area.

9.2.3. NONCONFORMANCE REPORT

9.2.3.1. RECORDING OF NONCONFORMANCES

If nonconformances or observed items exist by the work task completion inspection, the Superintendent or inspector records the nonconformances on a nonconformance report.

The Superintendent sends the nonconformance report to the Quality Manager.

9.2.3.2. QUALITY MANAGER DISPOSITION OF NONCONFORMANCE REPORTS

When the Quality Manager receives a Nonconformance Report, he or she makes an assessment of the affect the reported nonconformance has on form, fit, and function. The Quality Manager may assign a disposition of either:

	[CompanyName][Nonconforma	ince Report
	Version 20:	131125
Nonconformance Report	Dunio et ID	Duning at Manna
Control ID	Project ID	Project Name
	[ProjectNumber]	[ProjectName]
Preparer Signatu	re/ Submit Date	Quality Manager Signature / Disposition Date
Description of the requirement or specification		
Description of the nonconformance, location, affected area, and marking		
Disposition	Replace Repair Rework Approval of disposition required by cus	
Corrective Actions	Customer approval signature /date: Corrective actions completed Name Customer acceptance of corrective acti Name/Date:	
Preventive Actions	☐Preventive actions completed Name	e/Date:

LIST OF INCLUDED INSPECTION FORMS FOR FINISHING

WOOD/PLASTICS/AND COMPOSITES

- Architectural Wood Casework
- Exterior Finish Carpentry
- Interior Finish Carpentry
- Sheathing
- Wood Decking
- Wood Framing

OPENINGS

- Door Hardware
- Doors and Frames
- Louvers and Vents

FINISHES

- Acoustic Treatment
- Acoustical Ceilings
- Back Boards and Underlayments
- Plaster and Gypsum Board
- Textured Ceilings
- Wall Coverings

THERMAL AND MOISTURE PROTECTION

- Applied Fireproofing
- Blanket Insulation
- Dampproofing and Waterproofing
- Exterior Insulation and Finish Systems
- Firestopping
- Flashing and Sheet Metal
- Siding
- Wall Panels
- Weather Barriers

Compliance Verification ☐ Compliance with initial jobready requirements	FTQ				
 □ Compliance with material inspection and tests □ Compliance with work in process first article inspection requirements □ Compliance with work in process 		2TQ	Boards are s Surface is s Proper type acoustically Proper thick Gypsum boa	Awareness Checkpoints securely mounted and f mooth and even. of wall board used (state of water resistences of wall board instate ard installed with screws are floor/ceiling and wall	ndard// fire rated// tant// and mold resistant alled s not nails
inspection requirements ☐ Compliance with Task completion inspection requirements ☐ Compliance with inspection and test plan ☐ Compliance with safety policies and procedures Reported Nonconformances and incomplete items:			Ends and ed members or Plaster free Plaster is free	need and sealed dges of gypsum board I r solid backing of organic matter and coace of staining/bleed thro breign materials	onsistently shaded
Field Mgmt91.45.01 Quality 5 4 3 2 1 Notes: On-Time 5 4 3 2 1 Notes: Gafety 5 4 3 2 1 Notes: Gafety 5 4 3 2 1 Notes:	Signec		letion Sign		

Compliance Verification Compliance with initial jobready requirements Compliance with material inspection and tests Compliance with work in process first article inspection requirements Compliance with work in process inspection requirements	□ □ Woo □ Nails □ □ Nails □ □ Edge □ □ All jo	chtened Awareness Checkpoine d type/ size and profile: per pand fasteners: correct size or staples; set for painter pros and joints: aligned and fluints: coped or scarfed; sharp ks and glues: none on faces	plans and specifications and heads rep. past flush sh
 Compliance with initial jobready requirements Compliance with material inspection and tests Compliance with work in process first article inspection requirements Compliance with work in process inspection requirements 	□ □ Woo □ Nails □ □ Nails □ □ Edge □ □ All jo	d type/ size and profile: per p and fasteners: correct size or staples; set for painter pr s and joints: aligned and flu ints: coped or scarfed; sharp	plans and specifications and heads rep. past flush sh
ready requirements Compliance with material inspection and tests Compliance with work in process first article inspection requirements Compliance with work in process inspection requirements	Nails Nails Redge All jo	and fasteners: correct size or staples; set for painter pres and joints: aligned and fluints: coped or scarfed; sharp	and heads rep. past flush sh o cuts
 □ Compliance with Task completion inspection requirements □ Compliance with inspection and test plan □ Compliance with safety policies and procedure reported Nonconformances and incomplete item 	Corre	of split and saw damage free nings and drip edges: per pla ect fit: no visible spaces mbly reveals: correct/consistifications	e; no hammer marks ans and specifications
	ores and Completion	n Sign-off	
Field Mgmt91.45.01 Quality 5 4 3 2 1 Notes: On-Time 5 4 3 2 1 Notes:	3		
Safety 5 4 3 2 1 Notes:			
rign and date*: Cell # / ID #::ask has been has been verified complete and in compliance with contract drawings an	Signed:		:



For More Information:

Contact: FirstTimeQuality

410-451-8006

www.firsttimequality.com

EdC@FirstTimeQuality.com