

# PROJECT-SPECIFIC MASONRY QUALITY PLAN TABLE OF CONTENTS

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# B. KEY ELEMENTS OF THE MASON 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

## **COMPLIANCE WITH INDUSTRY MASONRY STANDARDS**

Codes that may apply to this project include those listed below.

	Regulator	Regulatory Codes and Industry Standards			
Division	Description	Reference Standard No.	Reference Standard Title		
4	Handling and storage of masonry units	ASTM C 90	Loadbearing Concrete Masonry Units		
4	Hot and cold weather masonry erection	ACI 530/530.1	Building Code Requirements and Specification for Masonry Structures and Related Commentaries		
4	Mortar mixing	ASTM C 270	Standard Specification for Mortar for Unit Masonry		

## I. MASONRY 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. The Superintendent inspects or ensures that a qualified inspector inspects materials prior to use for conformance to project quality requirements.

The Superintendent ensures that each work task that uses the source inspected materials proceed only after the material has been accepted by the material quality inspection or test.

## **DAILY QUALITY CONTROL REPORT**

# J. QUALITY CONTROL OF CORRECTIONS, REPAIRS, AND NONCONFORMANCES

Should a problem occur in the quality of work, we systematically contain the issue and quickly make corrections. Our first action is to clearly mark the item by tape, tag, or other easily observable signal to prevent inadvertent cover-up.

Then we expedite a corrective action that brings the workmanship or material issue into conformance by repair, replacement, or rework. Previously completed work is reinspected for similar nonconformances. In the event that we cannot correct the item to meet contract specifications, the customer will be notified and customer approval of corrective actions is required before proceeding.

Fixing problems found is not sufficient. [CompanyName] systematically prevents recurrences to improve quality. First enhanced controls and management monitoring are put into place to assure work proceeds without incident. Then using a structured problem solving process, [CompanyName] identifies root causes and initiates solutions. Solutions may involve a combination of enhanced process controls, training, upgrading of personnel qualifications, improved processes, and/or the use of higher-grade materials. Follow-up ensures that a problem is completely resolved. If problems remain, the process is repeated.

Nonconformances and their resolution are recorded on a Nonconformance Report form. A Nonconformance Report form exhibit is included in this subsection.

	[CompanyName] Nonconformance Report  Version 20140413			
Name of Superior Description				
Nonconformance Report Control ID	Project ID	Project Name		
	[ProjectNumber]	[ProjectName]		
Preparer Signatu		Quality Manager Signature / Disposition Date		
Description of the requirement or specification				
Description of the nonconformance, location, affected area, and marking		6		
Disposition	Replace Repair Rework Use As-is  Approval of disposition required by customer representative? Yes No			
Corrective Actions	Customer approval signature /date:  Corrective actions completed Name Customer acceptance of corrective actions Name/Date:			
Preventive Actions	☐ Preventive actions completed Name	e/Date:		

## LIST OF INCLUDED INSPECTION FORMS FOR MASONRY

- Concrete Form Masonry Units
- Concrete Unit Masonry
- Exterior Stone Cladding
- Maintenance of Masonry
- Manufactured Brick Masonry



Project:	Phase:		Contra	ct#:		Subcontractor:	Crew:
Compliance Verifica	tion_		FTQ	2TQ	Heightened	Awareness Checkpoints	<u> </u>
□ 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     □ Compliance with Task completion inspection requirements     □ Compliance with inspection and test plan     □ Compliance with safety policies and procedures  Reported Nonconformances and incomplete items:		inspection est plan nd procedures	<ul> <li>□ Masonry Unit Finish verified with ARCHITEC order/placement</li> <li>□ Sub-base compacted and able to support we Masonry Units</li> <li>□ Adjacent cut/fill slopes are stable and won't see Masonry Unit movement prior to filling</li> <li>□ Utility chases properly located</li> <li>□ Cell inserts installed prior to filling</li> <li>□ Appropriate vertical reinforcing installed</li> <li>□ Joint mortar cured prior to cell filling operation</li> <li>□ Grout fill vibrated lightly during fill operations</li> <li>□ Walls straight and plumb after backfill operation</li> <li>□ Below grade exterior faces waterproof seale</li> </ul>				support weight of and won't slip causing lling talled g operations before the support of the sup
Field Mgmt <u>91.4</u> Quality 5 4	5.01 3 2 1 Notes:	FTQ Scores an	d Co	omp	etion Sign	-off	
On-Time 5 4	3 2 1 Notes:						
Safety 5 4	3 2 1 Notes:						
Sign and date*: Cell # / II			0		conformances a n d	Date:incomplete items reported above.	
On-Time Score	i = 100% NO problems i = On Time i = 100% NO problems	4 = 1 minor problems 4 = Late 4 = 1 minor problem	3	= Late l	ot or 2-3 minor y 1 day ot or 2-3 minor	2 = 6+ or major problems 2 = Late by 2 days 2= 4+ or major problem	I = Excessive problems I = Late more than 2 days I = Injury Copyright 2012 First Time Quality



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