

PROJECT-SPECIFIC WELDING QUALITY PLAN

TABLE OF CONTENTS

A. [CompanyName] Quality Policy	3
B. Key Elements of the Weld Quality Plan	4
C. Project Quality Coordination and Communication	
D. Project QC Personnel	11
Project QC Job Position Assignments	11
Duties, Responsibilities, and Authority of QC Personnel	
Quality Responsibilities	11
Project QC Organization Chart	14
E. Personnel Qualifications	15
Personnel Certification Requirements	16
Training	19
F. Qualification of Third Party Inspection/Testing Companies and Subcontractors and Suppliers	
Qualification of Testing Laboratories	21
G. Weld Project Quality Specifications	23
Compliance with Industry Welding Standards	24
Project -Specific Welding Procedure Standards	24
H. Material Traceability	27
Identification of Lot Controlled Materials	
I. Weld Inspection and Test Plan	30
Welding Inspection and Testing Standards	31
Control of Inspection, Measuring, and Test Equipment	32
J. Welding Work Task Quality Inspections	34
Work Tasks Series of Inspections	34
Daily Quality Control Report	
K. Quality Control of Corrections, Repairs, and Nonconformances	41
L. Project Completion Inspections	
M. Quality Assurance Surveillance	
N. Control of Quality Records and Documents	47
O. Servicing and Warranty	48

B. KEY ELEMENTS OF THE WELD QUALITY PLAN

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

Quality Management and Responsibilities. [CompanyName][CompanySuffix] 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 fabrication 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

I. WELD INSPECTION AND TEST PLAN

[CompanyName] identifies inspections and tests that will be performed during the project. A test report is completed for each test. The test reports are then used for monitoring compliance to the plan and tracking results.

If independent laboratories are required to perform tests or quality inspections, we ensure that the laboratories are certified by a nationally recognized testing accreditation organization as appropriate for the scope of the inspection or test.

The Quality Inspection and Test Plan form lists inspections and tests (other than work task inspections) that will be performed on this project.



WELDING INSPECTION AND TESTING STANDARDS

Inspection and testing standards that may apply to this project include those listed below.

Inspection and Testing Standards								
Division	Description	Reference Standard No.	Reference Standard Title					
5	Identification markings to conform to ASTM standards specified in the approved construction documents	AISC 360 Section A3.3 and applicable ASTM material Standards	Material verification of high-strength bolts, nuts and washers					
5	Identification markings to conform to AWS specification in the approved construction documents	AISC 360, Section A3.5 and applicable AWS A5 documents	Material verification of weld filler materials					
5	Inspection of high-strength bolting	AISC 360, Section M2.5	Inspection of high-strength bolting					
5	For structural steel, identification markings to conform to AISC 360	AISC 360, Section M5.5 and applicable ASTM material standards	Material verification of structural steel and cold-formed steel deck					

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][CompanySuffix] Nonconformance Report										
Version 20131117 Nonconformance Report										
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	Co									
Disposition	Replace Repair Rework Use As-is Approval of disposition required by customer representative? Yes No Customer approval signature /date:									
Corrective Actions	Corrective actions completed Name/Date: Customer acceptance of corrective actions required? Yes \Boxed No \Boxed Name/Date:									
Preventive Actions	☐ Preventive actions completed Name	g/Date:								

LIST OF INCLUDED INSPECTION FORMS FOR WELDING

METALS

- Metal Decking
- Metal Railings
- Metal Stairs
- Structural Steel Framing

PLUMBING

- Electric Domestic Water Heaters
- Facility Potable-Water Storage Tanks
- Facility Sanitary Sewerage
- Facility Storm Drainage
- Facility Water Distribution
- Fuel-Fired Domestic Water Heaters
- Plumbing Fixtures
- Plumbing Insulation

HVAC

- Air Outlets and Inlets
- Air Terminal Units
- Breechings//Chimneys// and Stacks
- Central Cooling Equipment
- Commissioning of HVAC
- Cooling Towers
- Facility Fuel-Oil Piping
- Facility Fuel-Storage Tanks
- Facility Natural-Gas Piping
- Furnaces
- Heating Boilers
- HVAC Air Cleaning Devices
- HVAC Ducts and Casings
- HVAC Fans
- HVAC Insulation
- HVAC Piping and Pumps
- HVAC Water Treatment
- Indoor Central-Station Air-Handling Units
- Instrumentation and Control for HVAC
- Refrigerant Piping
- Testing// Adjusting// and Balancing for HVAC

Metals - Metal Railings 05.52.00										
Project:	Phase:	Contra	ct#:		Subcontractor:		Crew:			
Compliance Verification ☐ Compliance with initial jobready requirements		FTQ	2TQ							
				blemishes Connecting	and without					
 □ Compliance with material inspection and tests □ Compliance with work in process first article inspection requirements 					nections continuous, evor other irregularities	inuous, even, clean, and free of				
				Connecting same quality	hardware and welds pr y as the shop coat	·				
	 Compliance with work in process inspection requirements 		surfac	surfaces	posed fasteners countersunk to provide a smooth					
□ Compliance with Task completion inspection requirements				surface						
☐ Compliance with inspec	tion and test plan			• •	em securely mounted and free of movement					
☐ Compliance with safety policies and procedures					allels buildings and walking surface grade of burrs, crimps, and other surface irregularities					
Reported Nonconformances	and incomplete items:	C		8,						
	FTQ Scores a	nd C	omp	letion Sign	-off					
Field Mgmt91.45.01 Quality 5 4 3 2 On-Time 5 4 3 2	Notes:									
Safety 5 4 3 2	Notes:									
Sign and date*: Cell # / ID #:: Task has been has been verified complete and in	n compliance with contract drawings and specification	_Signed		-conformances and inc	Date: complete items reported above.					
Quality Score 5 = 100% NO On-Time Score 5 = On Time Safety Score 5 = 100% NO	4 = Late	3	= Late l	oot or 2-3 minor by 1 day oot or 2-3 minor	2 = 6+ or major problems 2 = Late by 2 days 2= 4+ or major problem	$I = L_0$ I = Inj	accessive problems ate more than 2 days arry 2012 First Time Quality			



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