

[ImagePlaceHolder]

[CompanyName]

Fabrication Quality Assurance/Quality Control Plan

[ProjectName] [ProjectNumber

Version: 20150308

Effective Date: 20150308

Version	Version notes
20150308	Initial issue

Approved

[QualityManagerName], Quality Manager

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PROJECT-SPECIFIC WELDING QUALITY PLAN

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G. Weld Project Quality Specifications

Fulfilling customer contract expectations is a primary objective of the [CompanyName] Quality System. To ensure that customer expectations will be fulfilled, [CompanyName] clearly defines the requirements for each contract before it is approved.

The Project Manager ensures that the information in customer contracts clearly defines customer expectations and that the necessary details are provided to set requirements for fabrication.

[CompanyName] personnel and subcontractors and suppliers are accountable for compliance to standards-based written specifications.

To achieve expectations reliably and consistently, specifications are clearly spelled out, not only for results but also for processes. Specifications apply to materials, work steps, qualified personnel and subcontractors and suppliers, safe work rules, and environmental work conditions.

Standards ensure that results are specified rather than left to discretionary practices.

All [CompanyName] fabrication activities comply with generally accepted good workmanship practices and industry standards.

COMPLIANCE WITH INDUSTRY WELDING STANDARDS

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

Regulatory Codes and Industry Standards						
Division	Description	Reference Standard No.	Reference Standard Title			
5	Minimum spacings and edge distances for screws	AISI SG02-KIT	North American Specification for the Design of Cold-Formed Steel Structural Members			
5	Installation of bracing and permanent bracing and bridging	CFSEI	Field Installation Guide for Cold-Formed Steel Roof Trusses			
5	Installation of chimneys, vents, and smokestacks	NFPA 211	Standard for Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances			
5	Framing and reinforcing openings through a steel deck	SDI DDP	Deck Damage and Penetrations			
5	Install high-strength bolts		RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts"			
5	Welding standards	AWS B2.1/B2.1M	Specification for Welding Procedure and Performance Qualification			
5	Standard practices for structural steel fabrication – bound series of standadards	AISC Code of Standard Practice for Steel Buildings and Bridges	AISC Code of Standard Practice for Steel Buildings and Bridges			
5	Specification for steel fabrication for structural steel buildings	AISC Specification for Structural Steel Buildings	AISC Specification for Structural Steel Buildings			
5	Structural steel joints	RCSC Specification for Structural Joints Using ASTM A325 or A490 Bolts	RCSC Specification for Structural Joints Using ASTM A325 or A490 Bolts			

Questions? Call First Time Quality 410-451-8006

5	Standar design symbols	ANSI/AWS A2.4	Symbols
5	Standard terms	ANSI/AWS A3.0	Terms and Definitions
5	QA recommended practices	AWS Welding Quality Assurance Guideline for Fabricators (WQAG)	Welding Quality Assurance Guideline for Fabricators (WQAG)
5	Coating of steel	SSPC Steel Structures Painting Manual, Volume I, Good Painting Practice	Steel Structures Painting Manual, Volume I, Good Painting Practice
5	Coating of steel	SSPC Steel Structures Painting Manual, Volume II, Systems and Specifications	Steel Structures Painting Manual, Volume II, Systems and Specifications
5	Special provisions for seismic applications	AISC Seismic Provisions for Structural Steel Buildings	Seismic Provisions for Structural Steel Buildings
5	Detailing standards for the design of structural steel details	AISC Detailing for Steel Construction	Detailing for Steel Construction
5	Workmanship and techniques for welded construction	AWS D1.1/D1.1M	Structural Welding Code – Steel

PROJECT - SPECIFIC WELDING PROCEDURE STANDARDS

The Quality Manager approves welding procedures before they can be used to fabricate metal.

Welding procedures shall be qualified and approved, in accordance with the applicable AWS Welding Code(s) or Specification(s) (i.e., D1.1., D1.5) or AWS B2.1, Specification for Welding Procedure and Performance Qualification.

The welding procedure must identify the filler material.

When the governing AWS Welding Code(s) mandates that welding procedures be qualified by test, the Welding Fabricator shall have PQRs that support the applicable WPSs. When prequalified WPSs or Standard Welding Procedure Specifications (SWPSs) published by the AWS are permitted, PQRs are not required.

The Quality Manager or Certified Welding Inspector (CWI) reviews and approves the welding procedure before being used in production welding operations.

The WPSs and PQRs are controlled by the Quality Manager according by the document and record control procedures specified in the relevant section of this Quality Manual.

The applicable WPSs shall be available to welders or welding operators during testing and production welding.

Form N-1 Welding Procedure Specification Prequalification

	PI				SPECIFICATIO QUALIFIED BY						
	-				ATION RECOR						
					Revision	Da	ate	By			
Company I	Name				Authorized	by		Date			
Welding Pr	ocess(es)_				Type-Mar	nual		Semiautomatic			
Supporting	PQR No.(s)			Mechani	zed		Automatic			
JOINT DES	SIGN USED				POSITION	l					
Type:					Position of	Groove:		Fillet:			
Single		Doub	le Weld		Vertical Pr	ogression:	Up D	own			
	Yes No				FLECTRIC	AL CHAR	OTEDIOTI	20 -			
	Backing Ma ing		Dimension		ELECTRIC	AL CHARA	ACTERISTI	US			
Groove An	gle:	Rad	fius (J=U)		Transfer M	ode (GMAV	V) Shor	rt-Circuiting			
Back Goug	ing: Yes	No 🗌	Metho	od			Glob	ular Spray			
							EP DCI	EN Pulsed			
BASE MET						rce: CC	CV				
	oec				Other						
Thickness	Groove _		Fillet		lungsten E	Electrode (C Size:	i IAW)				
Diameter (Groove _ Pipe)		Fillet _								
Diamotor (i	. ipo/					Туро.		_			
FILLER ME	ETALS				TECHNIQ	TECHNIQUE					
	ification					Stringer or Weave Bead:					
AWS Class	sification				Multi-pass	Multi-pass or Single Pass (per side)					
SHIELDING					Electrode	Spacing		gitudinal ral			
Flux		Gas		- X \			Anal	e			
			nposition _		Contact Tu	be to Work					
Electrode-F	Flux (Class)	Flov	v Rate		Peening _						
		Gas	Cup Size		Interpass (Cleaning: _					
							REATMENT				
PREHEAT			Preheat Temp., Min.					Temp			
PREHEAT Preheat Te	mp., Min.		May		Time						
PREHEAT Preheat Te			Max.		Time						
PREHEAT Preheat Te	mp., Min.		Max.		Time						
PREHEAT Preheat Te Interpass 1	mp., Min.			WELDING	Time						
PREHEAT Preheat Te Interpass T	mp., Min.		Max.	WELDING	Time						
PREHEAT Preheat Te Interpass 1	mp., Min Femp., Min.	Filler	Metals	WELDING C	G PROCEDURE Current Amps or Wire		Travel				
PREHEAT Preheat Te Interpass 1	mp., Min.	Filler		WELDING C	Time			Joint Details			
PREHEAT Preheat Te Interpass 1	mp., Min Femp., Min.	Filler	Metals	WELDING C	G PROCEDURE Current Amps or Wire		Travel				
PREHEAT Preheat Te Interpass 1	mp., Min Femp., Min.	Filler	Metals	WELDING C	G PROCEDURE Current Amps or Wire		Travel				
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PREHEAT Preheat Te Interpass 1	mp., Min Femp., Min.	Filler	Metals	WELDING C	G PROCEDURE Current Amps or Wire		Travel				
PREHEAT Preheat Te Interpass 1	mp., Min Femp., Min.	Filler	Metals	WELDING C	G PROCEDURE Current Amps or Wire		Travel				
PREHEAT Preheat Te Interpass 1	mp., Min Femp., Min.	Filler	Metals	WELDING C	G PROCEDURE Current Amps or Wire		Travel				
PREHEAT Preheat Te Interpass 1	mp., Min Femp., Min.	Filler	Metals	WELDING C	G PROCEDURE Current Amps or Wire		Travel				
PREHEAT Preheat Te Interpass 1	mp., Min Femp., Min.	Filler	Metals	WELDING C	G PROCEDURE Current Amps or Wire		Travel				
PREHEAT Preheat Te Interpass 1	mp., Min Femp., Min.	Filler	Metals	WELDING C	G PROCEDURE Current Amps or Wire		Travel				
PREHEAT Preheat Te Interpass 1	Process	Filler	Metals	WELDING C	G PROCEDURE Current Amps or Wire		Travel				

		Proce	edure (Qualification	n Record (PQR) # _		
					st Results		
				TEN	ISILE TEST		
Specimen No.	Width	Thick	kness	Area	Ultimate Tensile Load, lb	Ultimate Unit Stress, psi	Character of Failure and Location
				GUIDE	D BEND TEST		•
Specimen No.	Type of B	end		Result		Remarks	
							Co
						0	
						-AV	
ISUAL INSPE	ECTION				Radiographic-u	Itrasonic examinatio	n
ndercut					RT report no.:	Resu	ılt
iping porosity						Resu	
est date							num size single pass
					Macroetch	Macro	etch
					2. 3	3 1	3
other Tests				× (All-weld-metal t		
					Tensile strength	n, psi	
		•			Elongation in 2 Laborator	in, % ry test no	
Velder's name						Starr	
ests conducte		V				Labo	
		7					
					Per		
	igned certify	that the	stateme	ents in this rec	ord are correct and tha	t the test walds were	prepared wolded an
Ve the unders					AWS D1.1/D1.1M, (
	mance with th				Olement.	(year)	
	mance with th				Signed	Manufacturer or Con	tractor
	mance with th						
	mance with th				,		
	mance with th				Title		
	mance with th				Title		

http://www.aws.org/technical/forms/N-1.pdf

Form N-3 WPS QUALIFICATION TEST RECORD_ELECTROSLAG and ELECTROGAS WELDING

ANNEX N	AWS D1.1/D1.1M:2010
	CATION TEST RECORD FOR AND ELECTROGAS WELDING
PROCEDURE SPECIFICATION	TEST RESULTS
Material specification	Reduced-section tensile test
Welding process	Tensile strength, psi
Position of welding	
Filler metal specification	
Filler metal classification	
Filler metal	
Flux	
Shielding gas Flow rate Gas dew point	
Thickness range this test qualifies	Tensile strength, psi
Single or multiple pass	Tield politisticingti, par
Single or multiple arc	Elongation in 2 in, %
Welding current	
Preheat temperature	
Postheat temperature	Side-bend tests
Welder's name	1
Guide tube flex	2 4
Guide tube composition	
Vertical rise speed	
Traverse length	Radiographic-ultrasonic examination
Traverse speed	
Traverse speed	BT report no
	RT report no.
Dwell Type of molding shoe	RT report noUT report no
Dwell	UT report no.
Dwell	UT report no.
Dwell	UT report no
Dwell	Impact tests Size of specimen Test temp
Dwell	UT report no.
Dwell	UT report no.
Dwell	UT report no.
Dwell	UT report no
Dwell Type of molding shoe VISUAL INSPECTION (Table 6.1, Cyclically loade limitations) Appearance Undercut Piping porosity Test date Witnessed by WEI Pass Electrode Welding Current	Impact tests Size of specimen Test temp Ft-lb: 1 2 3 4 5 6 Avg High Low Laboratory test no LDING PROCEDURE
Dwell	Impact tests Size of specimen Test temp Ft-lb: 1 2 3 4 5 6 Avg High Low Laboratory test no LDING PROCEDURE
Dwell Type of molding shoe VISUAL INSPECTION (Table 6.1, Cyclically loade limitations) Appearance Undercut Piping porosity Test date Witnessed by WEI Pass Electrode Welding Current	Impact tests Size of specimen Test temp Ft-lb: 1 2 3 4 5 6 Avg High Low Laboratory test no LDING PROCEDURE
Dwell Type of molding shoe VISUAL INSPECTION (Table 6.1, Cyclically loade limitations) Appearance Undercut Piping porosity Test date Witnessed by WEI Pass Electrode Welding Current	Impact tests Size of specimen Test temp Ft-lb: 1 2 3 4 5 6 Avg High Low Laboratory test no LDING PROCEDURE
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Dwell	Impact tests Size of specimen Test temp Ft-lb: 1 2 3 4 5 6 Avg High Low Laboratory test no LOW LOW Laboratory test no LOW
Dwell	Impact tests Size of specimen Test temp Ft-lb: 1 2 3 4 5 6 Avg High Low Laboratory test no LDING PROCEDURE Its Joint Detail its record are correct and that the test welds were prepared, welded, and
Dwell	Impact tests Size of specimen Test temp Ft-lb: 1 2 3 4 5 6 Avg High Low Laboratory test no LOW Laboratory test no LOW Laboratory test no LOW
Dwell	Impact tests Size of specimen Test temp Ft-lb: 1 2 3 4 5 6 Avg High Low Laboratory test no LDING PROCEDURE Its Joint Detail is record are correct and that the test welds were prepared, welded, and a 4 of AWS D1.1/D1.1M, () Structural Welding Code—Steel (year) Manufacturer or Contractor

http://www.aws.org/technical/forms/N-3.pdf

Form N-4 WELDER, WELDING OPERATOR, OR TACK WELDER QUALIFICATION TEST RECORD

	TACK WELDER	QUALIFICATION	ON TEST RECORD
Type of Welder			
			n No
Welding Procedure Specification No.	Rev		Date
		Actual Values	0
Variables	Used in	Qualification	Qualification Range
Process/Type [Table 4.12, Item (1)]			
Electrode (single or multiple) [Table 4.12, Item (7)]			
Current/Polarity			
Position [Table 4.12, Item (4)]			
Weld Progression [Table 4.12, Item (5)]			
Backing (YES or NO) [Table 4.12, Item (6)]		to	
Material/Spec. Base Metal		to	
Thickness: (Plate)			
Groove			
Fillet			
Thickness: (Pipe/tube)			
Groove			
Fillet			
Diameter: (Pipe)			
Groove			
Fillet			
Filler Metal (Table 4.12)			
Spec. No. Class			-
F-No. [Table 4.12, Item (2)]			
Gas/Flux Type (Table 4.12)			
Other	V		
VISUAL	INSPECTION (4.9	1)	
	e YES or NO		
	nd Test Results (4		
		vpe	Result
			nesuit
Type Result		71	
		71-	
Type Result			
Type Result Fillet Test Res			
Type Result Appearance Fillet Test Res	sults (4. <u>31</u> .2.3 and Fillet Size	4. <u>31</u> .4.1)	
Type Result Fillet Test Res Appearance Fracture Test Root Penetration	sults (4.31.2.3 and Fillet Size Macroetc	4. <u>31</u> .4.1)	
Type Result Appearance Fillet Test Res	sults (4.31.2.3 and Fillet Size Macroetc	4. <u>31</u> .4.1)	
Type Result Fillet Test Res Appearance Fracture Test Root Penetration (Describe the location, nature, and size of any crack inspected by	Fillet Size Macroetco or tearing of the sp	4. <u>31</u> .4.1)	
Type Result Fillet Test Res Appearance Fracture Test Root Penetration	Fillet Size Macroetco or tearing of the sp	4. <u>31</u> .4.1)	
Type Result Fillet Test Res Appearance Fracture Test Root Penetration (Describe the location, nature, and size of any crack Inspected by Organization	sults (4.31.2.3 and Fillet Size Macroetco or tearing of the sp Test Num Date	4.31.4.1)	
Appearance Fracture Test Root Penetration (Describe the location, nature, and size of any crack inspected by Organization RADIOGRAPHI	Fillet Size Macroetci or tearing of the sp Test Num Date C TEST RESULTS	4.31.4.1) a ecimen.) ber (4.31.3.2)	
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Appearance Fracture Test Root Penetration (Describe the location, nature, and size of any crack inspected by Drganization RADIOGRAPHI Film Identification Number Results Remark Interpreted by Drganization We, the undersigned, certify that the statements in this rested in conformance with the requirements of Clause 4	Sults (4.31.2.3 and Fillet Size Macroetc or tearing of the sp Test Num Date C TEST RESULTS Film Identifi S Number Test Num Date Test Num Date Order of AWS D1.1/D1.1h	4.31.4.1) ecimen.) ber (4.31.3.2) cation or Res def data the test we (1, (sults Remarks elds were prepared, welded, and Structural Welding Code—Steel.
Appearance Fracture Test Root Penetration (Describe the location, nature, and size of any crack inspected by Organization RADIOGRAPHI Film Identification Number Results Remark Interpreted by Organization We, the undersigned, certify that the statements in this results in the statement in this results.	Sults (4.31.2.3 and Fillet Size Macroetco or tearing of the sp Test Num Date CTEST RESULTS Film Identifics Number Test Num Date Test Num Date Authorize Authorize	4.31.4.1) ecimen.) ber	sults Remarks

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Form N-9 STUD WELDING APPLICATION QUALIFICATION TEST DATA

STUD W	OR PROCE	I QUALIFICATION TION TEST PER S DURE QUALIFICA DER QUALIFICATION	UBCLAUSE 7.7.	1 (WPS) Yes PQR) Yes	SE 7.6 Yes 🗌
Company na	me		-		
Operator nar	ne				
rest number					
Weld stud ma	aterial				
	e and PN#/Manufacturer				
Base Materi	al		Stud I	Base Sketch/Applicati	on Detail
	nper				
surface cond	lition HR CR				
Cleaning me	thod				
ecking gag					
Shape of Ba	se Material			. (/)	
latRou	nd Tube	_			
	side Outside Insid				
errule	ufacturer				
art ivo./iviar	iption			$\overline{}$	
auipment	Data				
	Settings, Current, and Ti	me Settings			
	Model				
Stud gun: M	ake Mod	el			
	econds)				
Current (amp	erage)				
Polarity: DC	EN DCE	P	1		
.ift					
lunge (proti	usion)				
	ize Length_ ounds (workpiece leads)				
Velding Pos					
lat (Down h	and) Horizontal (Side	hand) Angular—	degrees from norm	al Overhead	
Shielding G			3		
	(es)/Composition				
low rate					
		WELD TEST	T RESULTS		
Stud No.	Visual Acceptance	Option #1 Bend Te	st Option #2	Tension Test Optio	n #3 Torque Test*
1					
3					
4					
5					
6					
7					
9					
10					
	est optional for threaded faster	ners only.			
	ests conducted by			Date	
Mechanical t		(Com	pany)		
fechanical t	rsigned, certify that the stat) Structural We	
Ve, the unde	ormance with the requireme	ills of Clause / Of Avv.			
Ve, the unde ested in conf	ormance with the requireme	TILS OF CIAGGS 7 OF AVV		(year)	
Ve, the unde	ormance with the requireme		Title		

http://www.aws.org/technical/forms/N-9.pdf

H. MATERIAL TRACEABILITY

Products and materials are controlled to assure the use of only correct and acceptable items. Controls include identification of the inspection status. Materials that require lot control traceability and the method of traceability are listed on the Controlled Materials form included as an exhibit in this subsection.

IDENTIFICATION OF LOT CONTROLLED MATERIALS

The Quality Manager determines types of project materials that require quality controls.

For each type of quality controlled material, the Quality Manager determines lot control traceability requirements, if any, and specifies the means of lot identification. Identification methods may include physical labels, tags, markings and/or attached certification documents.

When lot controlled materials are received, the Superintendent verifies that materials have the specified lot identifications.

The Superintendent maintains lot identification at all production phases from receipt, through production, installation, or assembly, to final completion. Acceptable methods for preserving lot identification include physically preserving observable lot identifications, recording the lot identification on a work task quality inspection form or other work record, or collecting the physical lot identifier as a record along with supplemented with location.

If lot controlled materials are without lot identification, the Superintendent deems the materials as nonconforming and segregates them and/or clearly marks them to prevent inadvertent use. The Superintendent treats the material according to the company policy for nonconformances. Only the Quality Manager can re-identify or re-certify the materials.

[CompanyName] Controlled Materials Form Version 20150308 Contract ID Contract Name Preparer Date

[ProjectNumber]

[ProjectName]

Contract Section/ Activity ID	Material	Intended Use (if description is necessary)	Lot Traceability Requirements	Method for identification of Approved Inspection Status
			(0)	
			0.9	
		XO		
	6			

[CompanyName] **Material Inspection and Receiving Report** Version 20150308 Supplier Bill of Lading No. **Contract ID Contract Name** Purchase Order No. Date [ProjectName] [ProjectNumber] Stock/Part Quantity Conditional Description Received Condition Marking Reject Item No. No. Accept Use П П П П П **Receiving Quality Control ACCEPTANCE** Listed items have been accepted by me or under my supervision Conform to contract specifications EXCEPT as noted herein or on supporting documents. Received in apparent good condition EXCEPT as noted Signature of authorized person and date: **EXCEPTIONS:**



For More Information:

Contact: FirstTimeQuality

410-451-8006

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