

Prepared for: Michael Cross Branch: Dartmouth

Sample Description: Coupons - 5052 Welder ID Number: 6421

Standard/Specification: ASME IX: QW-160 Guided Bend Test

Test Results

Sample ID	Visual Examination of Weld	Location	Bend Test	Comments
1G	Pass	Face	Pass	
2G	Pass		Pass	
3G	Pass		Pass	
4G	Pass		Pass	
1G	Pass	Root	Pass	
2G	Pass		Pass	
3G	Pass		Pass	
4G	Pass		Pass	

Test Findings

All positions passed bend test.

Recommendations

No recommendations needed.

Test Performed By: 

 Scott Gira

Test Date: JUN/25/2018





Welding Performance Qualification (WPQ)

Form Number: NEE-FRM-019

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Revision: 1

Welders Name: Michael Cross
WPS Used: A-MBF-1
Base Metal: 5052

Identification Number: 6421
Test Coupon: 1G
Thickness: 1/4"

Table with 3 columns: Parameter, Actual Values, Range Values. Rows include Welding process, Type of Welder, Plate or Pipe, Base Metal, Filler Metal Spec, Filler Metal Class, Filler Metal, Consumable Insert, Filler Type, Position/ Progression, Inert Gas Used, Voltage, Amperage, Transfer Mode, Welder Polarity, Cleaning Type.

Welder and Welding Supervisor are responsible for the test coupons being prepared and welded in accordance with requirements of Section IX of the ASME Code.

Welding Supervisor: Robert Ward
Location: Dartmouth Shop

Signature: [Handwritten Signature]

Results of Bend Test

Visual Examination of Complete Weld: Pass
Type of Test: Bend
Code: ASME IX
Root or Face: Face
Result: Pass

Visual Examination of Complete Weld: Pass
Type of Test: Bend
Code: ASME IX
Root or Face: Face
Result: Pass

Mechanical Test Performed by: Scott Giria
Location: NEE Winnipeg

Signature: [Handwritten Signature]

We certify that the statement in the record is correct and that the test coupons were tested in accordance with the requirements of Section IX of ASME Code.

Date: Jun 12/18
Name: Zanyar Farhadi

Organization: National Energy Equipment
Signature: [Handwritten Signature]



Welding Performance Qualification (WPQ)

Form Number: NEE-FRM-019

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Revision: 1

Welders Name: Michael Cross
WPS Used: A-MBH-1
Base Metal: 5052

Identification Number: 6421
Test Coupon: 2G
Thickness: 1/4"

	Actual Values	Range Values
Welding process	GMAW	GMAW
Type of Welder	Semi Auto	Semi Auto
Plate or Pipe	Plate	Plate
Base Metal	5052	5052
Filler Metal Spec	AWS 5.10	AWS 5.10
Filler Metal Class	ER5356	ER5356
Filler Metal	Aluminum	Aluminum
Consumable Insert		
Filler Type	Wire	Wire
Position/ Progression	Horizontal 2G/ Uphill	Horizontal 2G/ Uphill
Inert Gas Used	99.99% Argon	99.99% Argon
Voltage	<u>23.0</u>	21-24
Amperage	Auto	205-220
Transfer Mode	Spray Arc	Spray Arc
Welder Polarity	DCRP	DCRP
Cleaning Type	Wire Brush	Wire Brush

Welder and Welding Supervisor are responsible for the test coupons being prepared and welded in accordance with requirements of Section IX of the ASME Code.

Welding Supervisor: Robert Ward.
Location: Dartmouth Shop

Signature: Robert Ward.

Results of Bend Test

Visual Examination of Complete Weld: Pass
Type of Test: Bend Root or Face: Pass
Code: ASME IX Result: Pass

Visual Examination of Complete Weld: Pass
Type of Test: Bend Root or Face: Pass
Code: ASME IX Result: Pass

Mechanical Test Performed by: Scott Gira
Location: NEE Winnipeg

Signature: Scott Gira

We certify that the statement in the record is correct and that the test coupons were tested in accordance with the requirements of Section IX of ASME Code.

Date: Jun/25/18
Name: Zanyar Farhadi

Organization: National Energy Equipment
Signature: Zanyar Farhadi



Welding Performance Qualification (WPQ)

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Revision: 1

Welders Name: Michael Cross
WPS Used: A-MBV-1
Base Metal: 5052

Identification Number: 6421
Test Coupon: 3G
Thickness: 1/4"

Table with 3 columns: Parameter, Actual Values, Range Values. Rows include Welding process (GMAW), Type of Welder (Semi Auto), Plate or Pipe (Plate), Base Metal (5052), Filler Metal Spec (AWS 5.10), Filler Metal Class (ER5356), Filler Metal (Aluminum), Consumable Insert, Filler Type (Wire), Position/ Progression (Vertical 3G/ Uphill), Inert Gas Used (99.99% Argon), Voltage (23.0), Amperage (Auto), Transfer Mode (Spray Arc), Welder Polarity (DCRP), Cleaning Type (Wire Brush).

Welder and Welding Supervisor are responsible for the test coupons being prepared and welded in accordance with requirements of Section IX of the ASME Code.

Welding Supervisor: Robert Ward
Location: Dartmouth Shop

Signature: Robert Ward

Results of Bend Test

Visual Examination of Complete Weld: Pass
Type of Test: Bend
Code: ASME IX
Root or Face: Face
Result: Pass

Visual Examination of Complete Weld: Pass
Type of Test: Bend
Code: ASME IX
Root or Face: Face
Result: Pass

Mechanical Test Performed by: Scott Grice
Location: NEE Winnipeg

Signature: Scott Grice

We certify that the statement in the record is correct and that the test coupons were tested in accordance with the requirements of Section IX of ASME Code.

Date: Jan/25/18
Name: Zanyar Farhadi

Organization: National Energy Equipment
Signature: Zanyar Farhadi



Welding Performance Qualification (WPQ)

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Revision: 1

Welders Name: Michael Cross
WPS Used: A-MBO-1
Base Metal: 5052

Identification Number: 6421
Test Coupon: 4G
Thickness: 1/4"

Table with 3 columns: Parameter, Actual Values, Range Values. Rows include Welding process (GMAW), Type of Welder (Semi Auto), Plate or Pipe (Plate), Base Metal (5052), Filler Metal Spec (AWS 5.10), Filler Metal Class (ER5356), Filler Metal (Aluminum), Consumable Insert, Filler Type (Wire), Position/ Progression (Overhead 4G/ Uphill), Inert Gas Used (99.99% Argon), Voltage (230), Amperage (Auto), Transfer Mode (Spray Arc), Welder Polarity (DCRP), Cleaning Type (Wire Brush).

Welder and Welding Supervisor are responsible for the test coupons being prepared and welded in accordance with requirements of Section IX of the ASME Code.

Welding Supervisor: Robert Ward
Location: Dartmouth Shop

Signature: [Handwritten Signature]

Results of Bend Test

Visual Examination of Complete Weld: Pass
Type of Test: Bend
Code: ASME IX
Root or Face Result: Pass

Visual Examination of Complete Weld: Pass
Type of Test: Bend
Code: ASME IX
Root or Face Result: Pass

Mechanical Test Performed by: Scott Gira
Location: ASME IX

Signature: [Handwritten Signature]

We certify that the statement in the record is correct and that the test coupons were tested in accordance with the requirements of Section IX of ASME Code.

Date: Jun/25/18
Name: Zanyar Farhadi

Organization: National Energy Equipment
Signature: [Handwritten Signature]