

Date: May/11/2018

Prepared for:	Jeremy Newhook	Branch:	Mount Pearl, NF	
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Sample Description: Weld Test Coupons - 5052 Welder ID Number: E2228

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

Test Results

	Visual Examination of			
Sample ID	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 position passed.

Recommendations

No recommendations needed.

Test Preformed By:

Scott Gira

Test Date: May/11/2018



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Welders Name	Jeremy Newhook	Identif	fication number E2228	
WPS used	A-MBF-1	Test Co		
Base Metal	5052	Test Co	•	
base Wetai			1/4	
		Actual Values	Range Values	
Welding proces		GMAW	<u>GMAW</u>	
Type of Welder	•	SEMI AUTO	SEMI AUTO	
Plate or Pipe		PLATE	PLATE	
Base metal		5052	5052/5154/5454/5754	
Filler Metal spe		AWS 5.10	AWS 5.10	
Filler Metal class		ER5356	<u>ER5356</u>	
Filler Metal		<u>ALUMINUM</u>	<u>ALUMINUM</u>	
Consumable Ins	sert			
Filler Type		WIRE	WIRE	
Weld position/	progression	1G FLAT/Uphill	1G FLAT/Uphill	
Inert gas Used		99.99% ARGON	99.99% ARGON	
Voltage		22 Volts	<u>22 – 25 Volts</u>	
Amp		Auto Amps.	<u> 230 – 260 Amps.</u>	
Transfer mode		SPRAY ARC	SPRAY ARC	
Welder polarity	/	DCRP	<u>DCRP</u>	
Cleaning type		STEEL WIRE BRU	<u>USH</u> <u>STEEL WIRE BRUSH</u>	
Welder and Welding Sup with requirements of Sect			oupons being prepared and welded in accordance	
	tion IX of the AS		oupons being prepared and welded in accordance Signature: Michael Cross	
with requirements of Sect Welding Supervisor: Mich	tion IX of the AS		44.4.4.0	
with requirements of Sect Welding Supervisor: Mich Location: Mount P	tion IX of the AS hael Cross learl Shop ation of Complete Bend	ME Code. Results of	44.4.4.0	
with requirements of Sect Welding Supervisor: Micl Location: Mount P Visual Examina Type of Test: Code: ASME I Visual Examina	tion IX of the AS hael Cross learl Shop ation of Complete Bend IX	Results of Weld:	Signature: Michael Cross Bend Test Pass Face Result: Pass Pass	
with requirements of Sect Welding Supervisor: Micl Location: Mount P Visual Examina Type of Test: _ Code: ASME I Visual Examina Type of Test: _	tion IX of the AS hael Cross learl Shop ation of Complete Bend IX ation of Complete Bend	Results of Weld:	Signature: Michael Cross Bend Test Pass Face Result: Pass Pass Root	
with requirements of Sect Welding Supervisor: Micl Location: Mount P Visual Examina Type of Test: Code: ASME I Visual Examina	tion IX of the AS hael Cross learl Shop ation of Complete Bend IX ation of Complete Bend	Results of Weld:	Signature: Michael Cross Bend Test Pass Face Result: Pass Pass	
Welding Supervisor: Miceleding Supervisor: Miceleding Supervisor: Miceleding Supervisor: Mount P Visual Examination: Type of Test: Code: ASME I Visual Examination: Type of Test: Code: Asme E	tion IX of the AS hael Cross learl Shop ation of Complete Bend IX ation of Complete Bend X	Results of Weld:	Signature: Michael Cross Bend Test Pass Face Result: Pass Pass Root Result: Pass	2
Welding Supervisor: Mich Location: Mount P Visual Examina Type of Test: Code: ASME I Visual Examina Type of Test: Code: Asme E Mechanical Test Preform	tion IX of the AS hael Cross learl Shop ation of Complete Bend IX ation of Complete Bend X med by: Scott Gi	Results of Weld:	Signature: Michael Cross Bend Test Pass Face Result: Pass Pass Root	2
Welding Supervisor: Micl Welding Supervisor: Micl Location: Mount P Visual Examina Type of Test: Code: ASME I Visual Examina Type of Test: Code: Asme D Mechanical Test Preform Location: NEEI Winni	tion IX of the AS hael Cross rearl Shop ation of Complete Bend X ation of Complete Bend X med by: Scott Gi ipeg	Results of Weld: Weld: Ta	Signature: Michael Cross Bend Test Pass Face Result: Pass Pass Root Result: Pass	e
Welding Supervisor: Mich Location: Mount P Visual Examina Type of Test: Code: ASME I Visual Examina Type of Test: Code: Asme E Mechanical Test Preform Location: NEEI Winnia We certify that the states requirements of Section is	tion IX of the AS hael Cross rearl Shop ation of Complete Bend X ation of Complete Bend X med by: Scott Gi ipeg	Results of Weld: Weld: a we	Signature: Michael Cross Bend Test Pass Face Result: Pass Pass Root Result: Pass Signature:	e
Welding Supervisor: Mich Location: Mount P Visual Examina Type of Test: Code: ASME I Visual Examina Type of Test: Code: Asme E Mechanical Test Preform Location: NEEI Winnia We certify that the states requirements of Section is	tion IX of the AS hael Cross learl Shop ation of Complete Bend IX ation of Complete Bend IX med by: Scott Gi ipeg ment in the record IX of ASME Cod	Results of Weld: Ta d is correct and that e. Organ	Signature: Michael Cross Bend Test Pass Face Result: Pass Pass Root Result: Pass Signature:	e



EQUIPMENT INC.		Welding Performance Qualification (WP			
rm Number:NEE-FRM-(019	Page 1 of 1	Revision: 0		
Welders Name	Jeremy Newhook	Identif	ation number E2228		
WPS used	A-MBH-1	Test Co			
Base Metal	5052	Thickn	=		
Dase Meta.			<u>-,</u>		
		Actual Values	Range Values		
Welding proces		GMAW	GMAW		
Type of Welder	•	SEMI AUTO	SEMI AUTO		
Plate or Pipe		PLATE	PLATE		
Base metal		5052	<u>5052/5154/5454/57</u>	<u>54</u>	
Filler Metal spe	ecs	AWS 5.10	AWS 5.10	AWS 5.10	
Filler Metal class		ER5356	ER5356	ER5356	
Filler Metal		ALUMINUM	ALUMINUM		
Consumable In:	sert		<u></u> .		
Filler Type		WIRE	WIRE		
Weld position/	progression	2G Horizontal/L	hill 2G Horizontal/Uphill		
Inert gas Used	p 6	99.99% ARGON	99.99% ARGON		
Voltage		²² Volts	21 – 24 Volts		
Amp		Auto Amps.	205 – 220 Amps.		
Transfer mode		711103.			
		SPRAY ARC	SPRAY ARC		
Welder polarity	y	DCRP	DCRP		
Cleaning type	pervisor are respo	STEEL WIRE BRI		d in accordance	
Velder and Welding Sup	_	nsible for the test co	H STEEL WIRE BRUSH oons being prepared and welde	d in accordance	
Velder and Welding Sup	tion IX of the AS	nsible for the test co	oons being prepared and welde		
Velder and Welding Supith requirements of Sective Velding Supervisor:	tion IX of the AS	nsible for the test co	oons being prepared and welde		
Velder and Welding Supith requirements of Sective Velding Supervisor:	tion IX of the AS	nsible for the test co	oons being prepared and welde Signature: <u>Michael Cros</u>		
Velder and Welding Supvith requirements of Sective Velding Supervisor: Microscopy	tion IX of the AS	nsible for the test come ME Code. Results of I	oons being prepared and welde Signature: <u>Michael Cros</u>		
Velder and Welding Supith requirements of Sective Velding Supervisor: Microcation: Mount P	tion IX of the AS hael Cross Pearl Shop	nsible for the test come ME Code. Results of I	oons being prepared and welder Signature: <u>Michael Crossed Test</u> Pass		
Velder and Welding Supvith requirements of Sective Velding Supervisor: Microcation: Mount P	tion IX of the AS hael Cross Pearl Shop tion of Complete Bend	nsible for the test come ME Code. Results of I	oons being prepared and welde Signature: <u>Michael Cros</u> ad Test Pass		
Velder and Welding Supvith requirements of Sective Velding Supervisor: Microcation: Mount P Visual Examinat Type of Test: E Code: ASME IX	hael Cross Pearl Shop tion of Complete Bend	nsible for the test co ME Code. Results of I	Signature: Michael Cross and Test Pass Face Result: Pass		
Velder and Welding Suprith requirements of Sectivelding Supervisor: Microcation: Mount Provided Provid	hael Cross Pearl Shop tion of Complete Bend X tion of Complete	nsible for the test co ME Code. Results of I	Signature: Michael Cross and Test Pass Face Result: Pass Pass Root		
Velder and Welding Supvith requirements of Sective Velding Supervisor: Microcation: Mount P Visual Examinat Type of Test: E Code: ASME IX	hael Cross Pearl Shop tion of Complete Bend K tion of Complete Bend	nsible for the test co ME Code. Results of I	Signature: Michael Cross and Test Pass Face Result: Pass		
Velder and Welding Supvith requirements of Sective Velding Supervisor: Microcation: Mount Proceeding Visual Examinat Type of Test: Frank Code: ASME IX	hael Cross Pearl Shop tion of Complete Bend K tion of Complete Bend	nsible for the test co ME Code. Results of I	Signature: Michael Cross and Test Pass Face Result: Pass Pass Root		
Velder and Welding Supvith requirements of Sective Velding Supervisor: Mount P Visual Examinat Type of Test: _E Code: _ASME IX Visual Examinat Type of Test: _E Code: _Asme IX	tion IX of the AS hael Cross Pearl Shop tion of Complete Bend X tion of Complete	Results of I	Signature:		
Velder and Welding Supvith requirements of Sective Velding Supervisor: Microcation: Mount Proceeding Visual Examinat Type of Test: Frode: ASME IX Visual Examinat Type of Test: Frode: Asme IX Vechanical Test Preform	tion IX of the AS hael Cross Pearl Shop tion of Complete Bend X tion of Complete Bend ced by: Scott Gir.	Results of I	Signature: Michael Cross and Test Pass Face Result: Pass Pass Root		
Welder and Welding Supvith requirements of Sective Welding Supervisor: Microcation: Mount Provided Mount Provided Mount Provided Mount Provided Mount Provided Mount Provided Mechanical Test Preform Location: NEEI Winnig	tion IX of the AS hael Cross Pearl Shop tion of Complete Bend X tion of Complete Bend ced by: Scott Gir- peg ment in the record	Results of I Weld: Weld:	Signature:	<u>5</u>	
Welder and Welding Supvith requirements of Sective Welding Supervisor: Welding Supervisor: Mount P Wisual Examinat Type of Test: Code: ASME IX Visual Examinat Type of Test: Code: Asme IX Mechanical Test Preform Location: NEEI Winnig We certify that the statem requirements of Section I	tion IX of the AS hael Cross Pearl Shop tion of Complete Bend tion of Complete Bend ted by: Scott Gir. Deg nent in the record X of ASME Code.	Results of I Weld: Weld: is correct and that the	Signature: Michael Cross Michael Cross Michael Cross Michael Cross Michael Cross Michael Cross Pass Pass Face Result: Pass Pass Root Result: Pass Signature:	ordance with the	
Welder and Welding Supvith requirements of Sective Velding Supervisor: Microcation: Mount Provided Mechanical Test Preform Location: NEEI Winnig We certify that the statem requirements of Section Descriptions of Section Descript	tion IX of the AS hael Cross Pearl Shop tion of Complete Bend C tion of Complete Bend C tion of Complete A complete Com	Results of I Weld: Weld: is correct and that the	Signature: Michael Cross Michael Cross Michael Cross Michael Cross Michael Cross Pass Pass Face Pass Pass Root Result: Pass Signature:	ordance with the	



Welders Name WPS used Base Metal Welding process Type of Welder Plate or Pipe Jeremy Newhook A-MBV-1 S052 Actual Newhook Actual Newhook Actual Newhook Actual Newhook SEMI AU PLATE	3		
Base Metal 5052 Actual V Welding process GMAW Type of Welder SEMI AL	Test Coupon 3G Thickness 1/4" Values Range Values		
Base Metal 5052 Actual V Welding process GMAW Type of Welder SEMI AL	Thickness 1/4" Values Range Values		
Welding process GMAW Type of Welder SEMI AL			
Welding process GMAW Type of Welder SEMI AL			
Type of Welder SEMI AL			
	UTO SEMI AUTO		
: : : : : : : : : : : : : : : : : : :	PLATE		
Base metal 5052	5052/5154/5454/5754		
Filler Metal specs AWS 5.3			
Filler Metal class ER5356			
Filler Metal ALUMIN			
Consumable Insert	ALOMINOM		
Filler Type WIRE	WIRE		
	<u>99.99% ARGON</u> <u>3134. Volta</u>		
	<u>Volts</u> <u>21 – 24 Volts</u>		
Amp Auto	<u>Amps.</u> <u>185 – 205 Amps.</u>		
Transfer mode SPRAY A			
Welder polarity <u>DCRP</u>	<u>DCRP</u>		
Cleaning type STEEL V	<u>NIRE BRUSH</u> <u>STEEL WIRE BRUSH</u>		
with requirements of Section IX of the ASME Code. Welding Supervisor: Michael Cross	Signature:Michael Cross		
Location: Mount Pearl Shop			
<u>R</u>	Results of Bend Test		
Visual Examination of Complete Weld:	Pass		
Type of Test: Bend	Face Pass		
	Result: 1 dos		
Code: ASME IX			
Code: <u>ASME IX</u> Visual Examination of Complete Weld:	Pass		
Visual Examination of Complete Weld: Type of Test: Bend	Root		
Visual Examination of Complete Weld:			
Visual Examination of Complete Weld: Type of Test: Bend Code: Asme IX	Root Result: Pass		
Visual Examination of Complete Weld: Type of Test: Bend	Root		
Visual Examination of Complete Weld: Type of Test: Bend Code: Asme IX	Root Result: Pass		
Visual Examination of Complete Weld: Type of Test: Bend Code: Asme IX Mechanical Test Preformed by: Scott Gira Location: NEEI Winnipeg	Root Result: Pass		
Visual Examination of Complete Weld: Type of Test: Bend Code: Asme IX Mechanical Test Preformed by: Scott Gira Location: NEEI Winnipeg We certify that the statement in the record is correct a requirements of Section IX of ASME Code.	Root Result: Pass Signature: and that the test coupons were tested in accordance with the		
Visual Examination of Complete Weld: Type of Test: Bend Code: Asme IX Mechanical Test Preformed by: Scott Gira Location: NEEI Winnipeg We certify that the statement in the record is correct a	Root Result: Pass Signature:		



P EQUIPMENT INC.		Welding Performance Qualification (WPQ)		
Form Number:NEE-FRM-019	Page 1 of 1	Revision: 0		
Welders Name Jeremy	Newhook Ident	ification number E2228		
WPS used A-MBC)-1 Test (Coupon 4G		
Base Metal 5052	Thick	•		
				
	Actual Values	Range Values		
Welding process	GMAW	<u>GMAW</u>		
Type of Welder	SEMI AUTO	SEMI AUTO		
Plate or Pipe	PLATE	PLATE		
Base metal	5052	<u>5052/5154/5454/5754</u>		
Filler Metal specs	AWS 5.10	AWS 5.10		
Filler Metal class	ER5356	<u>ER5356</u>		
Filler Metal	<u>ALUMINUM</u>	<u>ALUMINUM</u>		
Consumable Insert		<u> </u>		
Filler Type	WIRE	WIRE		
Weld position/ progres	sion 4G Overhead/	Uphill 4G Overhead/Uphill		
Inert gas Used	99.99% ARGOI	99.99% ARGON		
Voltage	22 Volts	21 – 24 Volts		
Amp	Auto Amps	. 200 – 220 Amps.		
Transfer mode	SPRAY ARC	SPRAY ARC		
Welder polarity	DCRP	DCRP		
Cleaning type	STEEL WIRE BE			
with requirements of Section IX of Welding Supervisor: Michael Cross		Signature: Michael Cross		
~ *		Signature:		
Location: Mount Pearl Shop				
	Results o	f Bend Test		
Visual Examination of (Complete Wolds	Pass		
Type of Test: Bend	complete welu:	Face		
Code: ASME IX		Result: Pass		
Visual Examination of C	Complete Weld:	Pass		
Type of Test: Bend	complete were.	Root		
Code: Asme IX		Result: Pass		
		1- 100		
Mechanical Test Preformed by:	Scott Gira	Signature:		
Location: <u>NEEI Winnipeg</u>				
We certify that the statement in the requirements of Section IX of AS.		the test coupons were tested in accordance with the		
Date: May 11, 202	18 Orga	nization: National Energy Equipment Inc.		
Name: Zanyar Farhadi		nture:		
Lanyan Tannaul		Van		