

Report # G2345

EMAIL: shop@allcaninspection.com www.allcaninspection.com

Client:	Sub Arc Systems	Client Job #	Welder Coupons	CODES
Address:	17 Exploration Way, Devon	P.O. #	Toby	1. ASME B31.3 N/S
Contact:	Name: Toby	Date:	June 21/17	2. ASME B31.3 S/C
	Phone:			3. ASME Sec. VIII Div 1 UW51
Work Location:	All Can Inspection Shop	Work Description:	D.ZU	4. ASME Sec. VIII Div. 1 UW52
				5. CSA Z662
				6. CSA Z662 (Sour)
				7. API 650
				8. Other:

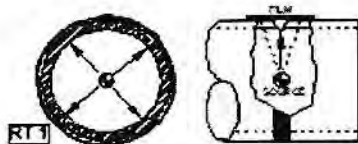
Film Make / Brand	AGFA		Film Class / Type:	1-D5
Screens	Lead	Front 0.010"	Back 0.010"	One (no.) film per screen
Film Density in H & D:	Min.	2.0	Max.	4.0
Penetrometer (IOI hole type) designation:	N/A		Recommended Max. U.G.:	0.20"
Source Isotope:	IRIDIUM-192 (Gamma)		Wall Viewing:	Single
Effective Focal Spot Size:	0.146 inches		Processing:	Automatic

RADIOGRAPHIC EXAMINATION REPORT

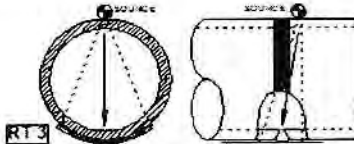
RADIOGRAPHIC EXAMINATION TECHNIQUE REFERENCE SHEET

ALL CAN INSPECTION SERVICES (2011) INC. RT TECHNIQUES
ALL CAN INSPECTION SERVICES (2011) INC. GENERAL RT PROCEDURE

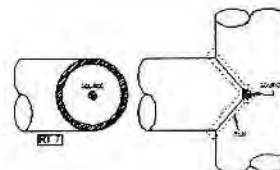
Important Note: Always check the QA/Procedures Manual for the most current Procedure Revision status.



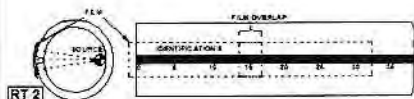
Tech #RT-1: Vessel Circumferential Weld
1 Exposure: QA Subsection 15.12.1



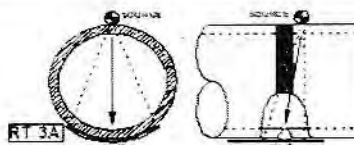
Tech #RT-3: Circ. Weld - Contact - Light Wall
3 Exposures@120° Spacing: QA Subsection 15.12.6



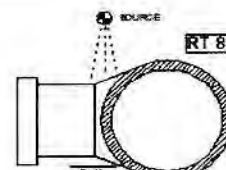
Tech #RT-7: Mitered "T" Joint - Single Wall - Source centered Exposures as required: QA Subsection 15.12.11



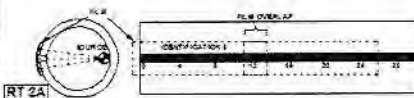
Tech #RT-2: Long. Weld - Light Wall - Source Inside
1 Exposure/15 inches: QA Subsection 15.12.2



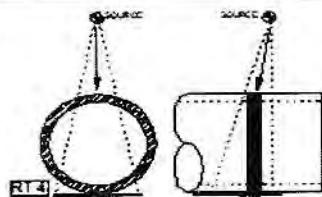
Tech #RT-3A: Circ. Weld - Contact - Heavy Wall
4 Exposures@90° Spacing: QA Subsection 15.12.7



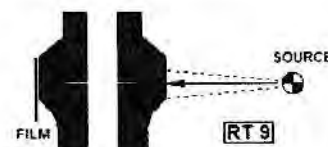
Tech #RT-8: Category "D" Weld
Exposures as required: QA Subsection 15.12.12



Tech #RT-2A: Long. Weld - Heavy Wall - Source Inside
1 Exposure/12 inches: QA Subsection 15.12.3



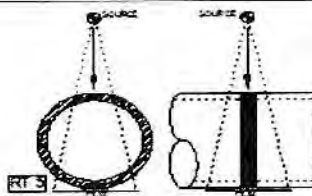
Tech #RT-4: Circ. Weld - Dbl Wall - Ellipse
2 Exposures@90° Spacing: QA Subsection 15.12.8



Tech #RT-9: Gap Check
1 Exposure: QA Subsection 15.12.13



Tech #RT-2B: Long. Weld - Light Wall - Source Outside
1 Exposure/15 inches: QA Subsection 15.12.4



Tech #RT-5: Circ. Weld - Double Wall - Superimposed
3 Exposures@60° Spacing: QA Subsection 15.12.9

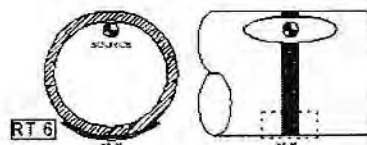
Penetrant (IQI) Reference

1. ASTM A
2. ASTM B
3. ASTM C
4. FEEN/EN-462

5. DIN/EN-462 Set/Size 1 (Wire range 1 - 7)
6. DIN/EN 462 Set/Size 6 (Wire range 6 - 12)
7. DIN/EN-462 Set/Size 10 (Wire range 10 - 16)
8. DIN/EN-462 Set/Size 13 (Wire range 13 - 19)
9. Hole Type: Indicate IQI Designation Number



Tech #RT-2C: Long. Weld - Heavy Wall - Source Outside
1 Exposure/12 inches: QA Subsection 15.12.5



Tech #RT-6: Circumferential Weld - Source not Centered
Exposures as required: QA Subsection 15.12.10

IMPORTANT INFORMATION:

Scope of Services & Limits of Liability:

All Can Inspection Services (2011) Inc. does not warranty or imply warranty of services stated herein and shall not be held liable for services rendered as per established service agreements. At no time shall liability be placed upon All Can Inspection Services (2011) Inc. of which exceeds the amount paid for said services.

All Can Inspection Services shall utilize appropriate quality assurance measures, technical training, and safety parameters to assure services are provided to meet or exceed established NDE procedures, Practices and industry expectations and at no time shall warranty excess NDE services except those established in writing beyond those established prior to the services provided herein.

Report # G2616

EMAIL: shop@allcaninspection.com www.allcaninspection.com

PAGE 1 OF 1

CODES

1. ASME B31.3 N/S
2. ASME B31.3 S/C
3. ASME Sec. VIII Div. 1 UW51
4. ASME Sec. VIII Div. 1 UW52
5. CSA Z662
6. CSA Z662 (Sour)
7. API 650
8. ASME IX (QW-191.2)

LF - Lack of Fusion
IP - Incomplete Penetration
IC - Internal Concavity
BT - Burn Through
TI - Tungsten Inclusion
RI - Internal Undercut
EU - External Undercut
EP - Excessive Penetration
P - Porosity
S - Slag
HL - High-Low
C - Crack
AB - Arc Burn
HB - Hollow Bead

SNF-TC-1A Level: _____ SNF-TC-1A No: _____

The above interpretation is a technical opinion, not a guarantee.
Client signature indicates acceptance of the report and results.
Clock tape marker and start arrow marked on weldment.
It is the customer's responsibility to map welds on drawings.

Automatic

RADIOGRAPHIC EXAMINATION REPORT

Report # G2615

EMAIL: shop@allcaninspection.com www.allcaninspection.com

CODES

1. ASME B31.3 N/S
2. ASME B31.3 S/C
3. ASME Sec. VIII Div. 1 UW51
4. ASME Sec. VIII Div. 1 UW52
5. CSA Z662
6. CSA Z662 (Sour)
7. API 650
8. ASME IX (QW-191.2)

[illegible]

SNT-TC-1A Level: _____ SNT-TC-1A No: _____

Film Make / Brand:	AGFA		Film Class / Type:	1-D5
Screen(s)	Load	Front 0.010"	Back 0.010"	One (no.) film per screen
Film Density in H & D:		Min. 2.0	Max. 4.0	
Panelometer (IGI hole type) designation:	N/A		Recommended Max. U.G.:	0.20"
Source Isotope:	IRIDIUM-192 (Gamma)		Wall Viewing:	Single
Effective Focal Spot Size:	0.145 inches		Processing:	Automatic

RADIOGRAPHIC EXAMINATION REPORT

Report # G2614

9323-37 Avenue, NW, Edmonton, Alberta T6E 5N4

SHOP: 780-462-1072 OFFICE: 780-462-9797 FAX: 780-462-4664

EMAIL: shop@allcaninspection.com www.allcaninspection.com

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RADIOGRAPHIC EXAMINATION REPORT

Report # G2613

9323-37 Avenue, NW, Edmonton, Alberta T6E 5N4

SHOP: 780-462-1072 OFFICE: 780-462-9797 FAX: 780-462-4664

EMAIL: shop@allcaninspection.com www.allcaninspection.com

PAGE 1 OF 1

Client:	Sub Arc Systems	Client Job #	Coupon	CODES
Address:	17 Exploration Way, Devon	P.O. #	Toby	1. ASME B31.3 N/S
Contact:	Name: Toby	Date:	Aug 1/17	2. ASME B31.3 S/C
	Phone:			3. ASME Sec. VIII Div. 1 UW51
Work Location:	All Can Inspection Shop	Work Description:	Chris Jaques	4. ASME Sec. VIII Div. 1 UW52
				5. CSA Z662
				6. CSA Z662 (Sour)
				7. API 650
				8. ASME IX (QW-191.2)

[illegible]

RT Technician:	<u>Gordon Thomas</u>	CGSB Level:	<u>2</u>	Reg. #:	<u>6</u>	SNT-TC-1A Level:	<u>III</u>	SNT-TC-1A No:	<u>6</u>
RT Assistant # 1	<u> </u>	CEDO #:	<u> </u>			SNT-TC-1A Level:	<u> </u>	SNT-TC-1A No:	<u> </u>
RT Assistant # 2	<u> </u>	CEDO #:	<u> </u>			SNT-TC-1A Level:	<u> </u>	SNT-TC-1A No:	<u> </u>

IMPORTANT: See reverse side of this form for All Can Inspection Services (2013) Inc. LIMITED LIABILITY POLICY

Technician Signature Robert K. Hannon Date Aug 1/17

Client Representative Signature K. Bl Evaluation Date _____

The above interpretation is a technical opinion, not a guarantee.
Client signature indicates acceptance of the report and results.

Clock tape marker and start arrow marked on weldment.
It is the customer's responsibility to map welds on drawings.

Film Make / Brand	AGFA	Film Glass / Type:	1-D5
Screens	Lead	Front	0.610"
		Back	0.610"
			One (no.) film per screen
Film Density in H & D:	Min. 2.0	Max.	4.0
Paratometer (G) hole type designation:	N/A	Recommended Max. U.G.:	0.20"
Source Isotope:	IRIDIUM-192 (Gamma)	Wall Viewing:	Single
Effective Focal Spot Size:	0.146 inches	Processing:	Automatic

RADIOGRAPHIC EXAMINATION REPORT

Report # G2575

9323-37 Avenue, NW, Edmonton, Alberta T6E 5N4

SHOP: 780-462-1072 OFFICE: 780-462-9797 FAX: 780-462-4664

EMAIL: shop@allcaninspection.com www.allcaninspection.com

PAGE 1 OF 1

Client:	Sub Arc Systems	Client Job #	Welder Coupons	CODES
Address:	17 Exploration Way, Devon	P.O. #	Toby	1. ASME B31.3 N/S
Contact:	Name: Toby	Date:	July 26/17	2. ASME B31.3 S/C
	Phone:			3. ASME Sec. VIII Div.1 UW51
				4. ASME Sec. VIII Div. 1 UW52
				5. CSA Z662
				6. CSA Z662 (Sour)
				7. API 650
Work Location:	All Can Inspection Shop	Work Description:	M.TV	8. ASME IX (QW-191.2)

[illegible]

RT Technician:	Gordon Thomas	CGSB Level:	2	Reg. #:	6	SNT-TC-1A Level:	III	SNT-TC-1A No:	6
RT Assistant # 1	Adele Kezama	CEDO #:	18988	SNT-TC-1A Level:	II	SNT-TC-1A No:	18988		
RT Assistant # 2		CEDO #:		SNT-TC-1A Level:		SNT-TC-1A No:			

IMPORTANT: See reverse side of this form for All Law Inspection Services (2011) Inc. LIMITED LIABILITY POLICY

Technician Signature

Client Representative Signature

July 26/17
Date

Evaluation Date

The above interpretation is a technical opinion, not a guarantee.
Client signature indicates acceptance of the report and results.

Clock tape marker and start arrow marked on weldment.
It is the customer's responsibility to map welds on drawings.

Film Make / Brand	AGFA	Film Class / Type:	1-D5
Screens: Lead	Front: 0.010"	Back: 0.010"	One (no.) film per screen
Film Density in H & D:	Min: 2.0	Max: 4.0	
Penetrometer (ICI hole type) designation:	N/A	Recommended Max. U.G.:	0.20"
Source Isotope:	IRIDIUM-192 (Gamma)	Wall Viewing:	Single
Effective Focal Spot Size:	0.146 inches	Processing:	Automatic

RADIOGRAPHIC EXAMINATION REPORT

Report # G2574

9323-37 Avenue, NW, Edmonton, Alberta T6E 5N4

SHOP: 780-462-1072 OFFICE: 780-462-9797 FAX: 780-462-4664

EMAIL: shop@allcaninspection.com www.allcaninspection.com

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RADIOGRAPHIC EXAMINATION REPORT

ALL CAN INSPECTION SERVICES (2011) INC.

Report # G2573

9323-37 Avenue, NW, Edmonton, Alberta T6E 5N4
 SHOP: 780-462-1072 OFFICE: 780-462-9797 FAX: 780-462-4664
 EMAIL: shop@allcaninspection.com www.allcaninspection.com

PAGE 1 OF 1

Client:	Sub Arc Systems	Client Job #	Welder Coupons	CODES 1. ASME B31.3 N/S 2. ASME B31.3 S/C 3. ASME Sec. VIII Div. 1 UW51 4. ASME Sec. VIII Div. 1 UW52 5. CSA Z662 6. CSA Z662 (Sour) 7. API 650 8. ASME IX (QW-191.2)
Address:	17 Exploration Way, Devon	P.O. #	Toby	
Contact:	Name: Toby	Date:	July 26/17	
	Phone:			
Work Location:	All Can Inspection Shop	Work Description:	J.Ni	

NDE No:	Size & thickness Plus Code Max. reinforcement	Material	Code	IQI	Technique Number	Source Side of Object to Film Distance	Source to Object Distance	Number of Exposures	Welder ID	LF - Lack of Fusion IP - Incomplete Penetration IC - Internal Cracks BT - Burn Through TI - Tungsten Inclusion IU - Internal Undercut EU - External Undercut EP - Excessive Penetration P - Porosity S - Slag HL - High-Low C - Crack AB - Arc Burn HB - Hollow Broad	Severity	Accept	Reject
2G SMAW-SAS 1	5/8" SPOT	P1	8	2	RT-2	0.750	25.000	1	J.Ni	(P @ 2" & 6"(ok)) S @ 0"-1"	3		X
3G SMAW-SAS 1	5/8" SPOT	P1	8	2	RT-2	0.750	25.000	1	J.Ni			V	
4G SMAW-SAS 1	5/8" SPOT	P1	8	2	RT-2	0.750	25.000	1	J.Ni	P @ 0"	1	V	

RT Technician:	Gordon Thomas	CGSB Level:	2	Reg. #:	6	SNT-TC-1A Level:	III	SNT-TC-1A No:	6
RT Assistant # 1	Adele Kezama	CEDO #:	18988			SNT-TC-1A Level:	II	SNT-TC-1A No:	18988
RT Assistant # 2		CEDO #:				SNT-TC-1A Level:		SNT-TC-1A No:	

IMPORTANT: See reverse side of this form for All Can Inspection Services (2011) Inc. LIMITED LIABILITY POLICY Technician Signature: <i>[Signature]</i> Date: July 26/17 Client Representative Signature: <i>[Signature]</i> Evaluation Date:		Film Make / Brand: AGFA Screens: Lead Front 0.010" Back 0.010" One (no.) film per screen Film Density in H & D: Min. 2.0 Max. 4.0 Penetrometer (ID) hole type designation: N/A Recommended Max. U.G.: 0.20" Source Isotope: IRIDIUM-192 (Gamma) Wall Viewing: Single Effective Focal Spot Size: 0.146 inches Processing: Automatic
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The above interpretation is a technical opinion, not a guarantee.
 Client signature indicates acceptance of the report and results.
 Clock tape marker and start arrow marked on weldment.
 It is the customer's responsibility to map welds on drawings.

RADIOGRAPHIC EXAMINATION REPORT

9323-37 Avenue, NW, Edmonton, Alberta T6E 5N4

SHOP: 780-462-1072 OFFICE: 780-462-9797 FAX: 780-462-4664

EMAIL: shop@allcaninspection.com www.allcaninspection.com

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RADIOGRAPHIC EXAMINATION REPORT

Report # G2571

9323-37 Avenue, NW, Edmonton, Alberta T6E 5N4

SHOP: 780-462-1072 OFFICE: 780-452-9797 FAX: 780-462-4664

EMAIL: shop@allcaninspection.com www.allcaninspection.com

PAGE 1 OF 1

Client:

Address:

Contact:

Sub Arc Systems

17 Exploration Way, Devon

Name: Toby

Phone:

Client Job #

P.O. #

Date:

Welder Coupons

Toby

July 26/17

Work Location:

All Can Inspection Shop

Work Description:

T.MO

CODES

1. ASME B31.3 N/S

2. ASME B31.3 S/C

3. ASME Sec. VIII Div. 1 UW51

4. ASME Sec. VIII Div. 1 UW52

5. CSA Z662

6. CSA Z662 (Sour)

7. API 650

8. ASME IX (QW-191.2)

NDE No:	Size & thickness Plus Code Max. reinforcement	Material	Code	IQI	Technique Number	Source Side of Object to Film Distance	Source to Object Distance	Number of Exposures	Welder ID	LF - Lack of Fusion IP - Incomplete Penetration IC - Internal Concavity BT - Burn Through TI - Tungsten Inclusion IU - Internal Undercut EU - External Undercut EP - Excessive Penetration P - Porosity S - Slag HL - High-Low C - Crack AB - Arc Burn HB - Hollow Bead	Severity	Accept	Reject
2G SMAW-SAS 1	5/8" SPOT	P1	8	2	RT-2	0.750	25.000	1	T.MO	Severity: 1 = Slight, 2 = Medium, 3 = Severe (Reject) Discontinuity	1-3	✓	✓
3G SMAW-SAS 1	5/8" SPOT	P1	8	2	RT-2	0.750	25.000	1	T.MO			✓	
4G SMAW-SAS 1	5/8" SPOT	P1	8	2	RT-2	0.750	25.000	1	T.MO			✓	

RT Technician:

Gordon Thomas

RT Assistant # 1

Adele Kezama

RT Assistant # 2

CGSB Level:

2

Reg. #:

6

CEDO #:

18988

CEDO #:

SNT-TC-1A Level:

III

SNT-TC-1A Level:

II

SNT-TC-1A Level:

SNT-TC-1A No:

6

SNT-TC-1A No:

18988

SNT-TC-1A No:

IMPORTANT: See reverse side of this form for All Can Inspection Services (2011) Inc. LIMITED LIABILITY POLICY

Technician Signature

July 26/17

Date

Client Representative Signature

Evaluation Date

The above interpretation is a technical opinion, not a guarantee.

Client signature indicates acceptance of the report and results.

Clock tape marker and start arrow marked on weldment.

It is the customer's responsibility to map welds on drawings.

Film Make / Brand

AGFA

Film Class / Type:

1-D5

Screens

Lead

Front

0.010"

Back

0.010"

One (no.) film per screen

Film Density in H & D:

Min

2.0

Max

4.0

Penetrometer (IQI hole type) designation:

N/A

Recommended Max. U.G.

0.20"

Source Isotope:

IRIDIUM-192 (Gamma)

Wall Viewing:

Single

Effective Focal Spot Size:

0.146 inches

Processing:

Automatic

RADIOGRAPHIC EXAMINATION REPORT

ALL CAN INSPECTION SERVICES (2011) INC.

Report # G2570

9323-37 Avenue, NW, Edmonton, Alberta T6E 5N4

SHOP: 780-462-1072 OFFICE: 780-462-9797 FAX: 780-462-4664

EMAIL: shop@allcaninspection.com www.allcaninspection.com

PAGE 1 OF 1

Client:	Sub Arc Systems	Client Job #	Welder Coupons
Address:	17 Exploration Way, Devon	P.O. #	Toby
Contact:	Name: Toby	Date:	July 26/17
	Phone:		
Work Location:	All Can Inspection Shop	Work Description:	J.Hi

- CODES**
1. ASME B31.3 N/S
 2. ASME B31.3 S/C
 3. ASME Sec. VIII Div 1 UW51
 4. ASME Sec. VIII Div 1 UW52
 5. CSA Z662
 6. CSA Z662 (Sour)
 7. API 650
 8. ASME IX (QW-191.2)

NDE No:	Size & thickness Plus Code Max. reinforcement	Material	Code	IQI	Technique Number	Source Side of Object to Film Distance	Source to Object Distance	Number of Exposures	Welder ID	LF - Lack of Fusion IP - Incomplete Penetration K - Internal Concavity ET - Burn Through TI - Tungsten Inclusion IU - Internal Undercut EU - External Undercut EP - Excessive Penetration P - Porosity S - Slag HL - High-Low C - Crack AB - Arc Burn HB - Hollow Bead	Severity	Accept	Reject
						inches	inches			Severity: 1 = Slight, 2 = Medium, 3 = Severe (Reject)	1-3	V	X
20 SMAW-SAS 1	5/8" SPOT	P1	8	2	RT-2	0.750	25.000	1	J.Hi	Continuity		V	
30 SMAW-SAS 1	5/8" SPOT	P1	8	2	RT-2	0.750	25.000	1	J.Hi			V	
40 SMAW-SAS 1	5/8" SPOT	P1	8	2	RT-2	0.750	25.000	1	J.Hi			V	

RT Technician: <u>Gordon Thomas</u>	CGSB Level: <u>2</u>	Reg. #: <u>6</u>	SNT-TC-1A Level: <u>III</u>	SNT-TC-1A No: <u>6</u>
RT Assistant # 1: <u>Adele Kezama</u>	CEDO #: <u>18988</u>		SNT-TC-1A Level: <u>II</u>	SNT-TC-1A No: <u>18988</u>
RT Assistant # 2: _____	CEDO #: _____		SNT-TC-1A Level: _____	SNT-TC-1A No: _____

IMPORTANT: See reverse side of this form for All Can Inspection Services (2011) Inc. LIMITED LIABILITY POLICY

Technician Signature: [Signature] Date: July 26/17

Client Representative Signature: [Signature] Evaluation Date: _____

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Client signature indicates acceptance of the report and results.
Clock tape marker and start arrow marked on weldment.
It is the customer's responsibility to map welds on drawings.

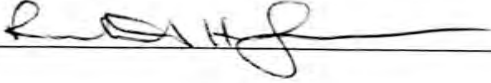
Film Make / Brand	<u>AGFA</u>	Film Class / Type:	<u>I-D5</u>
Screens	<u>Lead</u>	Front: <u>0.010"</u>	Back: <u>0.010"</u>
		One (no) film per screen	
Film Density in H & D:	Min: <u>2.0</u>	Max:	<u>4.0</u>
Penetrometer (IQI hole type) designation:	<u>N/A</u>	Recommended Max. U.G.:	<u>0.20"</u>
Source Isotope:	<u>IRIDIUM-192 (Gamma)</u>	Well Viewing:	<u>Single</u>
Effective Focal Spot Size:	<u>0.146 inches</u>	Processing:	<u>Automatic</u>

RADIOGRAPHIC EXAMINATION REPORT

QUALITY CONTROL MANUAL

Sub-Arc Systems Inc.	WELDERS' QUALIFICATION RECORD API 650	Exhibit 8, Rev A
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WELDER NAME	WELDER SYMBOL	DATE QUALIF.	QUALIFICATION PROCEDURE	LIMITATIONS					REMARKS
				PROCESS	ELECTRODE	POSITION	THICKNESS RANGE	DIAMETER RANGE	
MATT MACKENZIE	M.M.A	06.21.17	SAS 1	SMAW	F3, F4	2G	1 1/4"		X-Ray G 2343
	M.M.A	06.21.17	SAS 1	SMAW	F3, F4	3G	1 1/4"		X-Ray G 2343
	M.M.A.	06.21.17	SAS 1	SMAW	F3, F4	4G	1 1/4"		X-Ray G 2343
	M.M.A.	08.01.17	SAS 2	SAW	F7AG	2G	1 1/4"		X-Ray G 2615.

QC (PRINT) SIGN: QA (PRINT) ROBERT HOFFMAN SIGN: 	DATE (yyyy-MM-dd): DATE (yyyy-MM-dd): 2017, 08, 01
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QUALITY CONTROL MANUAL

Sub-Arc Systems Inc.	WELDERS' QUALIFICATION RECORD API 650	Exhibit 8, Rev A
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WELDER NAME	WELDER SYMBOL	DATE QUALIF.	QUALIFICATION PROCEDURE	LIMITATIONS					REMARKS
				PROCESS	ELECTRODE	POSITION	THICKNESS RANGE	DIAMETER RANGE	
MITCH COULICER	M.G0	06,21,17	SAS 1	SMaw	F3, F4	2G	1 1/4"		X-Ray E2341
	M.G0	06,21,17	SAS 1	SMaw	F3, F4	3G	1 1/4"		X-Ray E2341
	M.G0	06,21,17	SAS 1	SMaw	F3, F4	4G	1 1/4"		X-Ray G2341
	M.G0	08,01,17	SAS 2	SAW	F7A6	2G	1 1/4"		X-Ray G 2614.

QC (PRINT)

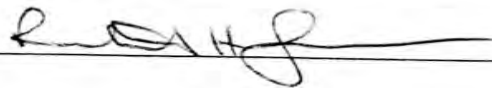
DATE (yyyy-MM-dd):

SIGN:

QA (PRINT) ROBERT HOFFMAN

DATE (yyyy-MM-dd):

SIGN:



2017, 08, 01

QUALITY CONTROL MANUAL

Sub-Arc Systems Inc.	WELDERS' QUALIFICATION RECORD API 650	Exhibit 8, Rev A
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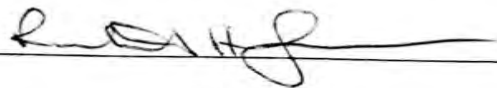
WELDER NAME	WELDER SYMBOL	DATE QUALIF.	QUALIFICATION PROCEDURE	LIMITATIONS					REMARKS
				PROCESS	ELECTRODE	POSITION	THICKNESS RANGE	DIAMETER RANGE	
CHRIS JARVIS	C.JA	06,21,17	SAS 1	SMW	F3, F4	2G	1 1/4"		X-Ray C2339
	C.JA.	06,21,17	SAS 1	SMW	F3, F4	3G	1 1/4"		X-Ray C2339
	C.JA.	06,21,17	SAS 1	SMW	F3, F4	4G	1 1/4"		X-Ray C2339
	C.JA	08,01,17	SAS 2	SAW	FTAG	2G	1 1/4"		X-Ray C2613

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QUALITY CONTROL MANUAL

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WELDER NAME	WELDER SYMBOL	DATE QUALIF.	QUALIFICATION PROCEDURE	LIMITATIONS					REMARKS
				PROCESS	ELECTRODE	POSITION	THICKNESS RANGE	DIAMETER RANGE	
MATI TURMEL	M.TU	06,21,17	SAS 1	SMW	F3, F4	2G	1 1/4"		X-Ray G 2342
	M.TU	06,21,17	SAS 1	SMW	F3, F4	3G	1 1/4"		X-Ray G 2342
	M.TU	06,21,17	SAS 1	SMW	F3, F4	4G	1 1/4"		X-Ray G 2342
	M.TU	07,26,17	SAS 2	SAW	F7A6	2G	1 1/4"		X-Ray G 2575

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QA (PRINT) ROBERT HOFFMAN	DATE (yyyy-MM-dd):
SIGN: 	2017, 07, 26

QUALITY CONTROL MANUAL

Sub-Arc Systems Inc.	WELDERS' QUALIFICATION RECORD API 650	Exhibit 8, Rev A
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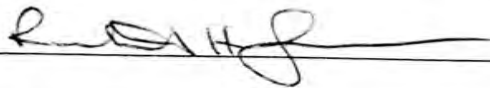
WELDER NAME	WELDER SYMBOL	DATE QUALIF.	QUALIFICATION PROCEDURE	LIMITATIONS					REMARKS
				PROCESS	ELECTRODE	POSITION	THICKNESS RANGE	DIAMETER RANGE	
JOE OVEREARD	J.O.V	06,21,17	SAS 1	SMW	F3, F4	2G	1 1/4"		X-Ray G 2340
	J.O.V	06,21,17	SAS 1	SMW	F3, F4	3G	1 1/4"		X-Ray G 2340
	J.O.V	06,21,17	SAS 1	SMW	F3, F4	4G	1 1/4"		X-Ray G 2340
	J.O.V	07,26,17	SAS 2	SAW	F7A6	2G	1 1/4"		X-Ray G 2574

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QA (PRINT) ROBERT HOFFMAN

SIGN:



DATE (yyyy-MM-dd):

DATE (yyyy-MM-dd):

2017, 07, 26

QUALITY CONTROL MANUAL

Sub-Arc Systems Inc.	WELDERS' QUALIFICATION RECORD API 650	Exhibit 8, Rev A
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WELDER NAME	WELDER SYMBOL	DATE QUALIF.	QUALIFICATION PROCEDURE	LIMITATIONS					REMARKS
				PROCESS	ELECTRODE	POSITION	THICKNESS RANGE	DIAMETER RANGE	
KEVIN WRIGHT	K.W.R.	07.26.17	SAS 1	SMAGW	F3, F4	2G	1 1/4"		X-Ray G2572
	K.W.R.	07.26.17	SAS 1	SMAGW	F3, F4	3G	1 1/4"		X-Ray G2572
	K.W.R.	07.26.17	SAS 1	SMAGW	F3, F4	4G	1 1/4"		X-Ray G2572
	K.W.R.	07.26.17	SAS 2	SAW	F7A6	2G	1 1/4"		X-Ray G2572

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WELDER NAME	WELDER SYMBOL	DATE QUALIF.	QUALIFICATION PROCEDURE	LIMITATIONS					REMARKS
				PROCESS	ELECTRODE	POSITION	THICKNESS RANGE	DIAMETER RANGE	
JOEL OVERGAUND	J.OV	07.26.17	SAS.2	SAW	FTAG	2G	1 1/4"		X Ray # G 2574

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WELDER NAME	WELDER SYMBOL	DATE QUALIF.	QUALIFICATION PROCEDURE	LIMITATIONS					REMARKS
				PROCESS	ELECTRODE	POSITION	THICKNESS RANGE	DIAMETER RANGE	
JOE NIEDERHOFF	J.NI	07.26.17	SAS 1	SMAN	F3, F4	3G	1 1/4"		X Ray # E2573
	J.NI	07.26.17	SAS 1	SMAN	F3, F4	4G	1 1/4"		X Ray # E2573
	J.NI	08.01.17	SAS 1	SMAN	F3, F4	2G	1 1/4"		X Ray E 2616.

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QUALITY CONTROL MANUAL

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WELDER NAME	WELDER SYMBOL	DATE QUALIF.	QUALIFICATION PROCEDURE	LIMITATIONS					REMARKS
				PROCESS	ELECTRODE	POSITION	THICKNESS RANGE	DIAMETER RANGE	
Justin Hill	J.HI	07.26.17	SAS 1	SMaw	F3, F4	2G	1 1/4"		X-RAY G 2570
	J.HI	07.26.17	SAS 1	SMaw	F3, F4	3G	1 1/4"		X-RAY G 2570
	J.HI	07.26.17	SAS 1	SMaw	F3, F4	4G	1 1/4"		X-RAY G 2570

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SIGN: 	2017, 07, 28

QUALITY CONTROL MANUAL

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WELDER NAME	WELDER SYMBOL	DATE QUALIF.	QUALIFICATION PROCEDURE	LIMITATIONS					REMARKS
				PROCESS	ELECTRODE	POSITION	THICKNESS RANGE	DIAMETER RANGE	
JOE NIEDERHOFF	J.NI	07.26.17	SAS 1	SMW	F3, F4	3G	1 1/4"		x Ray # E2573
	J.NI	07.26.17	SAS 1	SMW	F3, F4	4G	1 1/4"		x Ray # E2573

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QA (PRINT) ROBERT HOFFMAN	DATE (yyyy-MM-dd):
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