



# Onsite Load Test Report

Unit Information	
Serial Number:	PWG-0030-X20
Model Number:	N/A
Safe Working Load:	4400lbs
Tare:	N/A
Gross:	N/A

Load Cell Information	
Serial Number:	N/A
Certification Number:	N/A
Rating:	N/A

Other Testing Equipment:			
Proof Load:	6600lbs (Plus Dunnage)	Proof Load as Per:	N/A
Test Results:	Pass	Date:	July 31, 2018

Test #1	
Length (mm:ss):	N/A
Start Load (Total Hook Load):	N/A
End Load (Total Hook Load):	N/A

Test #2	
Length (mm:ss):	N/A
Start Load (Total Hook Load):	N/A
End Load (Total Hook Load):	N/A

Additional Test Results:	
Gangway original deflection – 0	
Deflection with Weight Applied – 5.65cm	
Total deflection – 5.65cm	

Test Conducted By:			
Name:	Paul Baker	Signature:	<i>Paul Baker</i>
Company/Position:	Supervisor	Date:	July 31, 2018

Test Witnessed by:			
Name:	Daley Samson	Signature:	<i>Daley Samson</i>
Company/Position:	Naval Architect	Date:	July 31, 2018
Name:	Scott Walsh	Signature:	<i>Scott Walsh</i>
Company/Position:	QA Coordinator	Date:	July 31, 2018



Atlantic District  
50 Brown Avenue  
Dartmouth, Nova Scotia, B3B 1X8

Traceable Standard Serial Number	Issue Date (YYYY-MM-DD)	Expiry Date (YYYY-MM-DD)
M753	2018-01-12	2019-01-12
Owner The Scale Shop (1985) Ltd.		
Address 88 Clyde Avenue, Mount Pearl, NL, A1N 4S2		
Contact John Hennessey	Establishment ID Number 1040160	Telephone Number (709) 747-2031

## CERTIFICATE OF DESIGNATION


### Gravimetric Standards

I, the undersigned, being authorized by the Minister of Industry to exercise the power of the Minister of Industry pursuant to Section 13 (1) of the *Weights and Measures Act*,

1) hereby certify that the standard or set of standards has been calibrated in accordance with Part III of the *Weights and Measures Regulations* in relation to a reference standard traceable to the National Measurement Standards of Canada through an unbroken chain of comparisons where the National Measurement Standards are maintained by the National Research Council of Canada, and

2) designate the said standard or set of standards described below as local standard(s):

Identification Number	Nominal Value	Identification Number	Nominal Value	Identification Number	Nominal Value	Identification Number	Nominal Value
SS01	1000 lb	SS11	1000 lb	SS23	1000 lb	SS34	1000 lb
SS02	1000 lb	SS12	1000 lb	SS24	1000 lb	SS35	1000 lb
SS03	1000 lb	SS13	1000 lb	SS25	1000 lb	SS36	1000 lb
SS04	1000 lb	SS14	1000 lb	SS26	1000 lb	SS37	1000 lb
SS05	1000 lb	SS15	1000 lb	SS27	1000 lb	SS38	1000 lb
SS06	1000 lb	SS16	1000 lb	SS28	1000 lb	SS39	1000 lb
SS07	1000 lb	SS17	1000 lb	SS29	1000 lb		
SS08	1000 lb	SS18	1000 lb	SS31	1000 lb		
SS09	1000 lb	SS19	1000 lb	SS32	1000 lb		
SS10	1000 lb	SS21	1000 lb	SS33	1000 lb		

Calibration Facility Address 26 Kyle Avenue Mount Pearl, NL A1N 4R5	Certified by Andrew M Price	Designated by: (Print) Jean-Gilles Poirier	Position Title District Manager
	Calibration Certificate Number 1413027	(Signature) 	



Atlantic District  
50 Brown Avenue  
Dartmouth, Nova Scotia, B3B 1X8

Traceable Standard Serial Number	Issue Date (yyyy-mm-dd)	Expiry Date (yyyy-mm-dd)
M753	2018-01-25	2019-01-25
Owner The Scale Shop (1985) Ltd.		
Address 88 Clyde Avenue, Mount Pearl, NL, A1N 4S2		
Contact John Hennessey	Establishment ID Number 1040160	Telephone Number (709) 747-2031

## CERTIFICATE OF DESIGNATION


### Gravimetric Standards

I, the undersigned, being authorized by the Minister of Industry to exercise the power of the Minister of Industry pursuant to Section 13 (1) of the *Weights and Measures Act*,

1) hereby certify that the standard or set of standards has been calibrated in accordance with Part III of the *Weights and Measures Regulations* in relation to a reference standard traceable to the National Measurement Standards of Canada through an unbroken chain of comparisons where the National Measurement Standards are maintained by the National Research Council of Canada, and

2) designate the said standard or set of standards described below as local standard(s):

Identification Number	Nominal Value	Identification Number	Nominal Value	Identification Number	Nominal Value	Identification Number	Nominal Value
L1	501b	L25	501b	L46	501b	L67	501b
L2	501b	L26	501b	L47	501b	L68	501b
L3	501b	L27	501b	L48	501b	L69	501b
L6	501b	L30	501b	L49	501b	L73	501b
L11	501b	L31	501b	L54	501b	L74	501b
L12	501b	L32	501b	L55	501b	L75	501b
L13	501b	L33	501b	L56	501b	L77	501b
L14	501b	L36	501b	L58	501b	L78	501b
L17	501b	L37	501b	L59	501b	L79	501b
L18	501b	L39	501b	L60	501b	L81	501b
L20	501b	L42	501b	L61	501b	L82	501b
L21	501b	L44	501b	L63	501b	L83	501b
L22	501b	L45	501b	L65	501b	L84	501b

Calibration Facility Address 26 Kyle Avenue Mount Pearl, NL A1N 4R5	Certified by Andrew M Price	Designated by: (Print) Jean-Gilles Poirier	Position Title District Manager
	Calibration Certificate Number 1413034	(Signature) 	



Atlantic District  
50 Brown Avenue  
Dartmouth, Nova Scotia, B3B 1X8

Traceable Standard Serial Number	Issue Date (YYYY-MM-DD)	Expiry Date (YYYY-MM-DD)
M753	2018-01-12	2019-01-12
Owner		
The Scale Shop (1985) Ltd.		
Address		
88 Clyde Avenue, Mount Pearl, NL, A1N 4S2		
Contact	Establishment ID Number	Telephone Number
John Hennessey	1040160	(709) 747-2031

## CERTIFICATE OF DESIGNATION

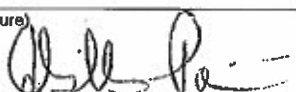
### Gravimetric Standards

I, the undersigned, being authorized by the Minister of Industry to exercise the power of the Minister of Industry pursuant to Section 13 (1) of the *Weights and Measures Act*,

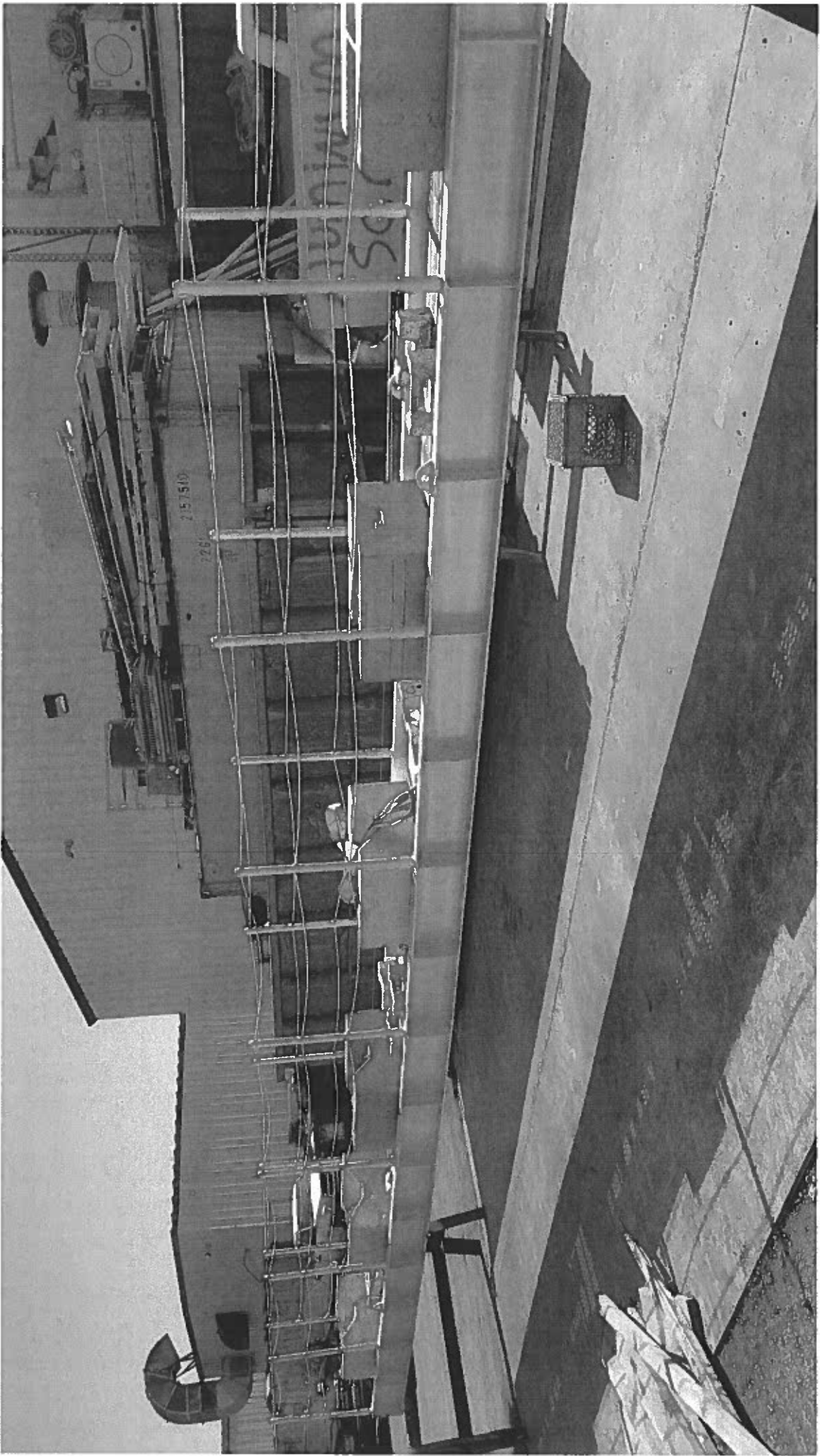
1) hereby certify that the standard or set of standards has been calibrated in accordance with Part III of the *Weights and Measures Regulations* in relation to a reference standard traceable to the National Measurement Standards of Canada through an unbroken chain of comparisons where the National Measurement Standards are maintained by the National Research Council of Canada, and

2) designate the said standard or set of standards described below as local standard(s):

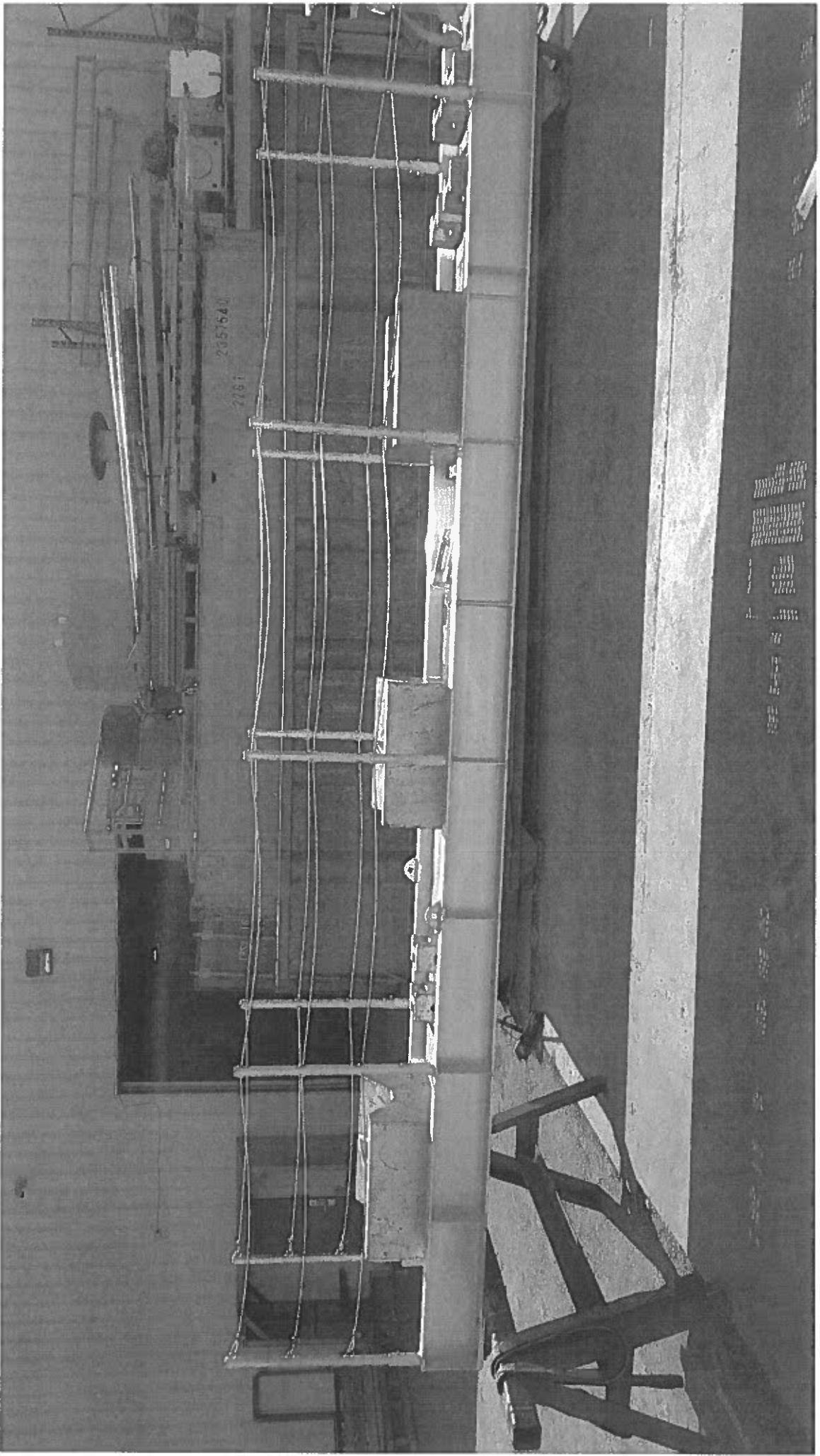
Identification Number	Nominal Value	Identification Number	Nominal Value	Identification Number	Nominal Value	Identification Number	Nominal Value
L4		L24		L52			
L5		L28		L53			
L7		L29		L57			
L8		L34		L62			
L9		L35		L64			
L10		L38		L66			
L15		L40		L70			
L16		L41		L76			
L19		L43					
L23		L50					

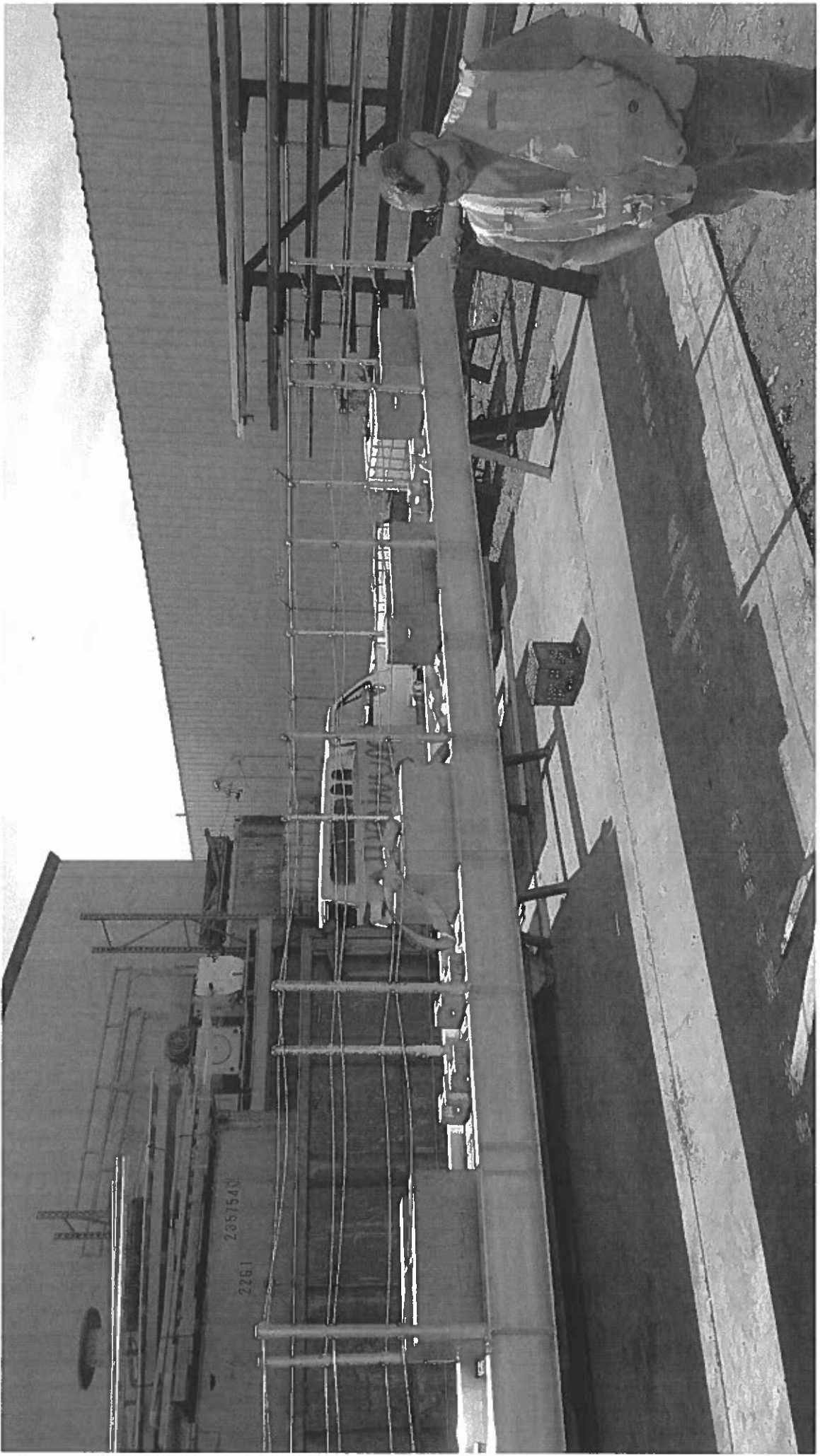
Calibration Facility Address 26 Kyle Avenue Mount Pearl, NL A1N 4R5	Certified by Andrew M Price	Designated by: (Print) Jean-Gilles Poirier	Position Title District Manager
	Calibration Certificate Number 1413030	(Signature) 	







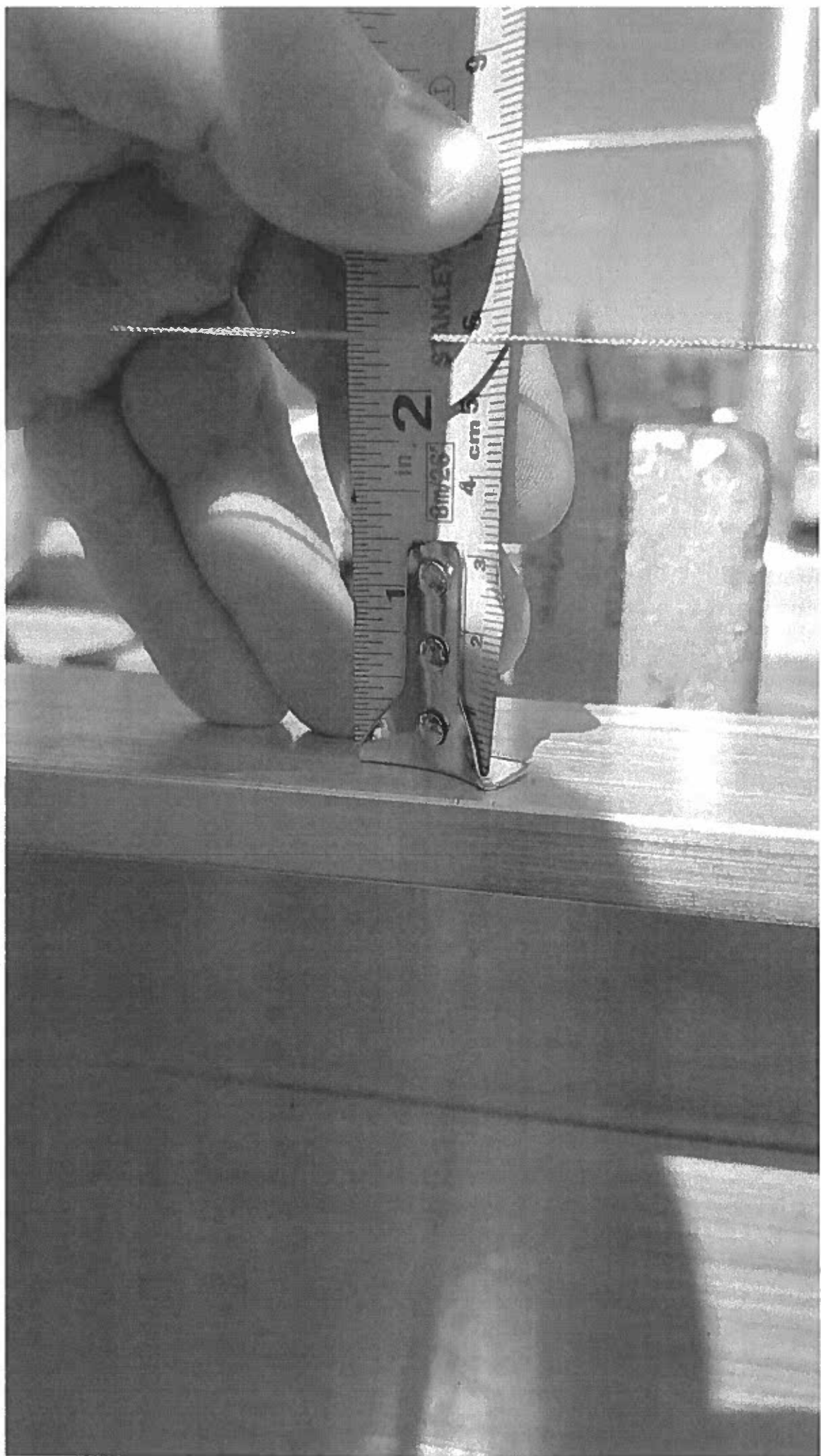




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# VISUAL EXAMINATION REPORT

Client Name		Heddie Marine		P.O. No.	20181502		Team Job No.	52083591	
Work Location		Mount Pearl, NL		Client Job No.	N/A		Report No.	NDTR-PWG-0030-X20-01	
Code / Specification / CED		CSA W59-13		Technique No.	ASME V		Date of Exam	07-18-18	
Acceptance / CED		CSA W59-13		Procedure	VT ASME 1 5200 Rev 2				

Part Description		Aluminum Gangway		Material	AL		Qty Inspected	100%	
Part / Assy No.	J18057-501		Material Thickness	8 & 12.7mm		Heat No.	N/A		Qty Accepted
DWG No.									Qty Rejected
Type of Fabrication								100%	
								0	

Type of Fabrication		<input type="checkbox"/> Piping <input type="checkbox"/> Vessel <input type="checkbox"/> Tank <input checked="" type="checkbox"/> Weld <input type="checkbox"/> Casting <input type="checkbox"/> Forging <input type="checkbox"/> Plate <input type="checkbox"/> Other		<input type="checkbox"/> Surface Acceptable for Inspection	
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Weld Description		Welding Process		Joint Type		Fillet/CJP		Welder I.D.	
Weld I.D.									

Visual Aids and Additional Equipment Used		Light Equipment Used	
Gauges:	Fillet Gauge	Measuring Tools:	Light Meter S/N:
Mirrors/Lenses:		Other:	Flashlight
Viewing Angle:	* Min. View Angle ≥ 30°	Viewing Distance:	Max. Dist. ≤ 24"
Inspection Scope	White Light Intensity at the time of inspection:      ft      Min. White Light Intensity to be ≥ 100 fc		

This report covers the visual inspection associated with the Aluminum Gangway as follows:

All attachment welds including 2 x CJP welds as indicated on Drawing No. J18057-501

**Inspection Results**

At the time of inspection, all welds meet code requirements.

Additional Discontinuity Details (if Required)					ACCEPTABLE		COMMENTS/REMARKS	
Type	SIZE	LOCATION	ACCEPTABLE	ACCEPTABLE	LOCATION	SIZE	TYPE	COMMENTS/REMARKS
Cracks			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Crown Height	
Arc Burns			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Excessive Slag	
Undercut			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Lack of Fusion	
Weld Size			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Misalignment	
Porosity			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Burn Through	
Weld Profile			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Other	

Signature and Certification		Client Final Acceptance	
Technician	Keith Gowan	Authorized Inspector	
Signature		Signature	
Cert. CWB:	<input type="checkbox"/> Level 1 <input type="checkbox"/> Level 2 <input checked="" type="checkbox"/> Level 3   SNT-TC-1A: <input type="checkbox"/> Level 1 <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3	Signature	
Cert. Other:		Signature	

# ULTRASOUND EXAMINATION REPORT

		Heddie Marine	P.O. No.	20181502	Team Job No.	S2083591
		Mount Pearl, NL	Client Job No.	N/A	Report No.	UT-001 TO
		CSA W59.2	Technique No.	CSA - Shearwave	Date of Exam	07-18-18
		CSA W59.2	Procedure	CSA UT-4 Rev 1		
<b>Part Description</b>						
		Aluminum Gangway	Material	AL	Qty Inspected	2
	J18057-501		Material Thickness	8 and 12.7mm	Heat No.	N/A
<b>Inspection Parameters</b>						
Type of Fabrication	<input type="checkbox"/> Piping	<input type="checkbox"/> Vessel	<input type="checkbox"/> Tank	<input checked="" type="checkbox"/> Weld	<input type="checkbox"/> Casting	<input type="checkbox"/> Forging
	<input type="checkbox"/> Other	<input type="checkbox"/> Plate	<input type="checkbox"/> Transducer			
Make:	Olympus Model:	EPOCH 600 S/N:	150334301	Cal Date	07-10-18	Angle °
Presentation	<input checked="" type="checkbox"/> A-Scan	<input type="checkbox"/> B-Scan	<input type="checkbox"/> C-Scan	Cable Length	09-10-18	Size
Cable Type	<input checked="" type="checkbox"/> BNC	<input checked="" type="checkbox"/> Microdot	<input type="checkbox"/> Limbo	Damping	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Freq. MHz
	Reject <input type="checkbox"/>	Contact <input checked="" type="checkbox"/>	Pulse Echo <input type="checkbox"/>	Inmersion <input type="checkbox"/>	Resonance <input type="checkbox"/>	Through Transmission <input type="checkbox"/>
Reflector Block	Type	I/IW Block	N/A	Ref. Reflector	1.5mm	S/N
Post Clean	Method:	N/A	Batch No.: N/A	Material:	N/A	Reference dB
				Couplant:	Songilide	Transfer dB
				Batch No.:	Lot 127	Scan dB
Carry out an Ultrasonic Shearwave Examination on G/P welds as follows:  2 locations as depicted in photos on Page 2*						
<b>Signature and Certification</b>						
Terrill Oliver	Reg. No.	11416	Client Final Acceptance	Authorized Inspector	Signature	Date
	Expiry Date	11-15-21		Supervisors Review	Signature	Date
CGSB:	<input checked="" type="checkbox"/> Level 2	<input type="checkbox"/> Level 3	<input type="checkbox"/> Level 1-A	<input type="checkbox"/> Level 3	Signature	Date

# ULTRASOUND EXAMINATION REPORT

form# 007 UT R2 | 149 McNamara Drive | Paradise, NL | A1LOA7 | TEL (709) 745-1818 | FAX (709) 745-5401 | Page 2 of 2



Industrial Services  
TSI Canada Inc.

## LIQUID PENETRANT EXAMINATION REPORT

Client Name	Heddie Marine	P.O. No.	20181502	Team Job No.	52083536
Work Location	Mount Pearl, NL	Client Job No.	N/A	Report No.	PT-010 TO
Code / Specification / CED	CSA W59.2	Technique No.	Visible	Date of Exam	07-18-18
Acceptance / CED	CSA W59.2	Procedure	CSA PT-2 Rev. 1		
<b>Part Description</b>					
Part / Assy No.	Aluminum Gangway	Material	AL	Qty. Inspected	As Per Request
DWG No.	J18057-501	Material Thickness	N/A	Heat No.	N/A
<b>Type of Fabrication</b>					
<input type="checkbox"/> Piping	<input type="checkbox"/> Vessel	<input type="checkbox"/> Tank	<input type="checkbox"/> Weld	<input type="checkbox"/> Casting	<input type="checkbox"/> Forging
<input type="checkbox"/> Plate	<input type="checkbox"/> Other	<input checked="" type="checkbox"/> Surface Acceptable for Inspection			
<b>Lighting Equipment</b>					
Black Light Equipment used:	N/A	White Light Equipment used:	AccuPro XP-2000		
Black Light Meter S/N:	Cal. Date:	Due Date:	Light Meter S/N:	1964247	Cal. Date: 03-05-18
Black Light Sensor S/N:	Cal. Date:	Due Date:	Light Sensor S/N:		Cal. Date:
Black Light Intensity at the time of inspection:	$\mu W / cm^2$		White Light Intensity at the time of inspection:	200	ft
Min. Black Light Intensity to be $\geq 1000 \mu W / cm^2$ :	<input type="checkbox"/> at examination surface		Min. White Light Intensity to be $\geq 100 ft$ :	<input checked="" type="checkbox"/> at examination surface	
<input type="checkbox"/> Ambient White Light in Darkened Area $< 2 ft$ At Inspection Surface					
<b>Materials</b>					
Process	Description	Batch No.	Dwell Times / Minutes	Type	Method of Application
Pre-Clean	SKC-s	14H01K	N/A	<input type="checkbox"/> Fluorescent (1)	<input type="checkbox"/> Dip
Emulsifier	N/A			<input checked="" type="checkbox"/> Visible (2)	<input type="checkbox"/> Spray
Penetrant	SKL-WP2	16C05K	20 mins	<input checked="" type="checkbox"/> Water Washable (A)	<input checked="" type="checkbox"/> Brush
Drying	Air	minutes @	<input type="checkbox"/> °C	<input type="checkbox"/> Solvent Removable (C)	
Developer	SKD-S2	13C17K	10 mins	<input type="checkbox"/> Post Emulsified (B / D)	
Post Clean	SKC-s	14H01K	N/A	Part Temperature:	<input type="checkbox"/> °F
					<input checked="" type="checkbox"/> °C
<b>Inspection Scope</b>					
A Visible Liquid Penetrant Examination to be carried out on Aluminum Gangway (all attachments welds including 2 x CIP attachment welds); as per drawing markup and client request.					
Refer to Page 2*					
<b>Signature and Certification</b>					
Technician	Jerry Oliver	Reg. No.	11416	Client Final Acceptance	Signature
Signature		Expiry Date	11-15-21	Authorized Inspector	Signature
Certification	CGSB: <input type="checkbox"/> Level 2	<input type="checkbox"/> Level 3	SNT-TC-1A: <input type="checkbox"/> Level 2	CSA Supervisors Review	Signature
	<input type="checkbox"/> Level 3	<input type="checkbox"/> Level 3	<input type="checkbox"/> Level 3		Date



## LIQUID PENETRANT EXAMINATION REPORT

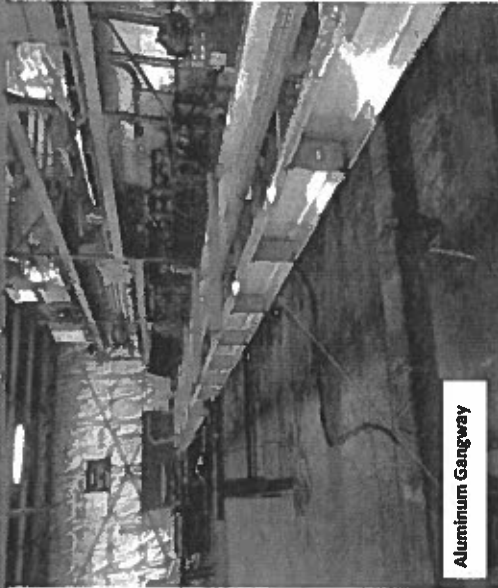
Client Name	Heddie Marine	P.O. No.	20181502	Team Job No.	52083536
Work Location	Mount Pearl, NL	Client Job No.	N/A	Report No.	PT-010 TO
Code / Specification / CED	CSA W59.2	Technique No.	Visible	Date of Exam	07-18-18
Acceptance / CED	CSA W59.2	Procedure	CSA PT-2 Rev. 1		

### Inspection Results

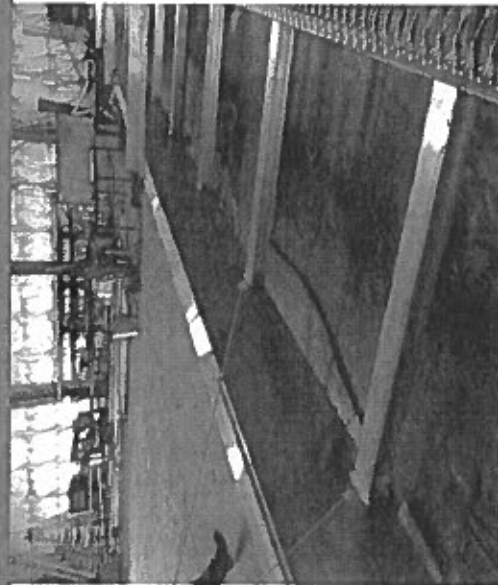
A Visible Liquid Penetrant Examination was carried out on Aluminum Gangway (all attachments welds including 2 x CJP attachment welds); as per drawing markup and client request.

No rejectable indications were found in accordance with code.

### Additional Optional Information - Sketches, Graphs etc.



Visible Liquid Penetrant Examination carried out on all weld attachments, including CJP welds (Qty:2) as shown\* Others- typical



### Signature and Certification

Technician	Terry Oliver	Reg. No.	11416	Client Final Acceptance	Signature	Date
Signature		Expiry Date	11-15-21	Authorized Inspector	Signature	Date
Certification	CGSB: <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3	SNT-TC-1A: <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3	CSA Supervisors Review	Signature	Signature	Date