

Quality Assurance Labs Inc

NON-DESTRUCTIVE TESTING AND INSPECTION SERVICES

80 PLEASANT AVENUE • SOUTH PORTLAND, MAINE 04106 • TEL: (207) 799-8911 • FAX: (207) 799-7251

INSPECTION REPORT

CUSTOMER: S.W. COLE ENG. PAGE 1 OF 1

ADDRESS: GRAY, ME.

ATTENTION: ROGER DOMINGO

COPIES:

PROJECT: UNIVERSITY CREDIT UNION

OWNER:

CONTRACTOR:

JOB No.: 07-0559 REPORT No.: QAL-07-1631 P. O. NUMBER: DATES INSPECTED: 08-29-07

REMARKS

VISUAL INSPECTION OF STRUCTURAL STEEL CONNECTIONS: GRID LINES 1-5, A-E AND 6-8, F-G.

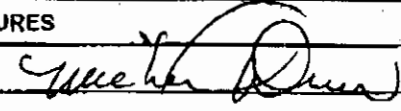
- > BOLTED CONNECTIONS COMPLETED.
- > TS 12 X 4 SHOWS THREE CONNECTIONS INCOMPLETE FOR VERTICLE WELDS.
- > ALL REMAINING HSS CONNECTIONS COMPLETE FOR ALL LOCATIONS.

COMPLETED ITEMS COMPLY WITH AWS D1.1 REQUIREMENTS FOR VISUAL ACCEPTANCE.

FAA REPAIR STATION NUMBER RX5R187N
METHOD(S), PROCESS(ES), PROCEDURE(S) MERCURY FREE

ADDITIONAL INFORMATION - SEE ATTACHED: SKETCH(ES) SUPPLEMENTARY SHEET(S) NDT REPORTS VIDEO

SIGNATURES

INSPECTOR MICHAEL DREW CWI# 99050211 

CERTIFICATION LEVEL M DATE D Y

08 | 29 | 07

SUPERVISOR

Quality Assurance Labs Inc.

NON-DESTRUCTIVE TESTING AND INSPECTION SERVICES

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INSPECTION REPORT

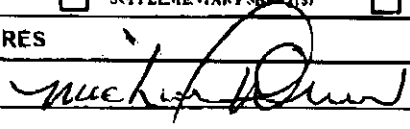
CUSTOMER: S. W. COLE ENG.		PAGE 1 OF 1
ADDRESS: GRAY, ME.		
ATTENTION: ROGER DOMINGO		
COPIES:		
PROJECT: UNIVERSITY CREDIT UNION		
OWNER:		
CONTRACTOR:		
JOB No.: 07-0559	REPORT No.: QAL-07-1746	DATE INSPECTED: 10-18-07

REMARKS

FINAL VISUAL INSPECTION OF PREVIOUSLY IDENTIFIED INCOMPLETE HSS VERTICLE FIELD WELDS .
 > COMPLETED VERTICLE WELDS COMPLY WITH SITE DRAWINGS AND AWS D1.1 REQUIREMENTS FOR VISUAL ACCEPTANCE . THIS COMPLETES ALL STRUCTURAL STEEL ITEMS LISTED ON SITE DRAWINGS FOR AWS D1.1 INSPECTION .

END ITEMS ##

FAA REPAIR STATION NUMBER RX5R187N
 METHOD(S),PROCESS(ES),PROCEDURE(S) MERCURY FREE

ADDITIONAL INFORMATION - SEE ATTACHED:	<input type="checkbox"/> SKETCH(ES)	<input type="checkbox"/> SUPPLEMENTARY SHEET(S)	<input type="checkbox"/> NDT REPORTS	<input type="checkbox"/> VIDEO
SIGNATURES			CERTIFICATION	DATE
INSPECTOR	MICHAEL DREW CWI# 99050211			M D Y
SUPERVISOR				10 22 07

PRECISION WELDING AND FABRICATION, INC.

Structural Steel - Miscellaneous Metals

(207) 854-9330 Telephone
(207) 854-9694 Fax
(207) 854-1167 Accounting



690A Stroudwater St.
P.O. Box 880
Westbrook, Maine 04098-0880

TO: BUILD PARTNERS
ATTN: NICK McKENNEY
FROM: SOL GAY
11-1-07

REF: UNIVERSITY CREDIT UNION - PORTLAND, MAINE

NICK,
ON THE PAGES FOLLOWING ARE COPIES OF OUR WELDER
CERTIFICATIONS, MEMBERSHIP OF SSFNE, WELDING ROD & A325 BOLT
SPECS. IF YOU NEED ANYTHING ELSE PLEASE CALL.

THANK YOU,
SOL

Quality Assurance Labs Inc.

NON-DESTRUCTIVE TESTING AND INSPECTION SERVICES

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MEMBERSHIP AFFIDAVIT

ANNEX E

WELDING PROCEDURE SPECIFICATION (WPS) Yes
PREQUALIFIED QUALIFIED BY TESTING
or PROCEDURE QUALIFICATION RECORDS (PQR) Yes

Ben. R



STRUCTURAL STEEL FABRICATORS OF NEW ENGLAND

BY AUTHORITY OF THE BOARD OF DIRECTORS

Precision Welding & Fabricating, Inc.

having been duly elected to membership
is hereby certified as

Member

and entitled to all privileges thereof

Elected September 1989

Consultant

President

WELDING PROCEDURE SPECIFICATION (WPS) Yes
 PREQUALIFIED QUALIFIED BY TESTING
 or PROCEDURE QUALIFICATION RECORDS (PQR) Yes

Ben. B

Company Name Precision Welding + Fabrication
 Welding Process(es) FCAW
 Supporting PQR No.(s) PREQUALIFIED

Identification # 1
 Revision N/A Date _____ By M. Schroeder
 Authorized by _____ Date _____
 Type—Manual Semi-Automatic
 Machine Automatic

JOINT DESIGN USED
 Type:
 Single Double Weld
 Backing: Yes No Backing Material: ASTM A36
 Root Opening 1/4" Root Face Dimension _____
 Groove Angle: 45° Radius (J-U) _____
 Back Gouging: Yes No Method _____

POSITION
 Position of Groove: 2G Fillet: _____
 Vertical Progression: Up Down

BASE METALS
 Material Spec. ASTM A36
 Type or Grade _____
 Thickness: Groove 1" Fillet _____
 Diameter (Pipe) _____

ELECTRICAL CHARACTERISTICS
 Transfer Mode (GMAW) Short-Circuiting
 Globular Spray
 Current: AC DCEP DCEN Pulsed
 Other _____
 Tungsten Electrode (GTAW)
 Size: _____
 Type: _____

FILLER METALS
 AWS Specification AWS 5.20
 AWS Classification E71T-1

TECHNIQUE
 Stringer or Weave Bead: STRINGER / WEAVE Root
 Multi-pass or Single Pass (per side) MULTI PASS
 Number of Electrodes ONE
 Electrode Spacing Longitudinal _____
 Lateral _____
 Angle _____

SHIELDING
 Flux _____ Gas Argon / CO2
 Composition 75% Ar - 25% CO2
 Electrode-Flux (Class) _____ Flow Rate 35-40 CFH
 Gas Cup Size 5/8" Contact Tube to Work Distance 3/4"

Peening NONE
 Interpass Cleaning: hand wire brush, chipping hammer, grinder on spatter
 POSTWELD HEAT TREATMENT
 Temp. _____
 Time _____

PREHEAT
 Preheat Temp., Min _____
 Interpass Temp., Min _____ Max _____

WELDING PROCEDURE

Pass or Weld Layer(s)	Process	Filler Metals		Current		Volts	Travel Speed	Joint Details
		Class	Diam.	Type & Polarity	Amps or Wire Feed Speed			
1-13	FCAW	E71T-1	.045	VertiCore DC+	200 AMPS.	26.5		

Form E-1 (Front)

Quality Assurance Labs Inc.

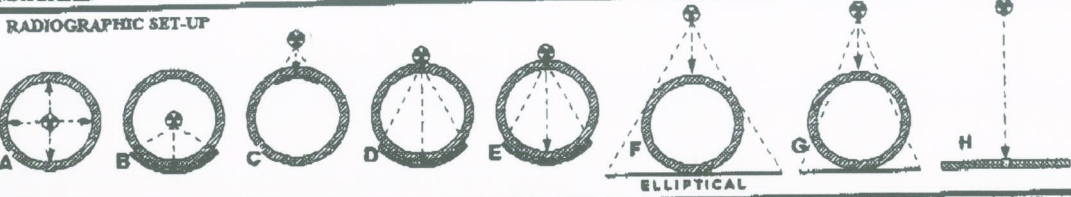
NON-DESTRUCTIVE TESTING AND INSPECTION SERVICES

80 PLEASANT AVENUE • SOUTH PORTLAND, MAINE 04106 • TEL: (207) 799-8911 • FAX: (207) 799-7251

INSPECTION REPORT

CUSTOMER'S NAME: PRECISION WELDING			P.O. NO.: N/A			PAGE 1 OF 1		
RADIOGRAPHY REPORT NO.: QAL-02-843			PROCEDURE NO.: 0913			QUANTITY: 1		
PART NO.: TEST COUPON			JOB NO.: N/A					
SOURCE: TYPE Iridium 192		SIZE: .107 X .118		CURIES: 30		KV: N/A		MA: N/A
FILM: TYPE II		SPEED: 100		SINGLE <input checked="" type="checkbox"/>		FRONT <input checked="" type="checkbox"/>		
				DOUBLE <input type="checkbox"/>		SIZE: 4 1/2 x 10		SCREENS: 0.010"
						BACK <input checked="" type="checkbox"/>		
IQI: SIZE ASTM "B" WIRE		GROUP: I		SENSITIVITY: .020		SHIM: N/A		SOURCE SIDE <input checked="" type="checkbox"/>
MATERIAL: TYPE C/S			THICKNESS: 1"			ACCEPTANCE STANDARD: ASME SECTION IX		

RADIOGRAPHIC SET-UP



OTHER

SERIAL NUMBER	VIEW NUMBER	CONDITION OF PART <small>(See Definition)</small>	ACCEPT	REJECT	SERIAL NUMBER	VIEW NUMBER	CONDITION OF PART <small>(See Definition)</small>	ACCEPT	REJECT
BEN B.	0 - 1	2,5	✓						
FCAW									

REMARKS:

- DEFINITIONS:**
- 1. Crack
 - 2. Porosity
 - 3. Incomplete Fusion
 - 4. Incomplete penetration
 - 5. Slag
 - 6. Inclusions
 - 7. Gas Holes
 - 8. Shrink
 - 9. No Apparent Defects
 - 10. Film Artifacts
 - 11. FB/Ls
 - 12. Surface
 - 13. Undercut
 - 14. Void
 - 15. Internal concavity

SIGNATURE: **R. Russell #2687716** *Ryan Russell*

M / D / Y

DATE: **12/09/2002** LEVEL: **II**

AWS 01.1:2000

WELDING PROCEDURE SPECIFICATION (WPS) Yes
 PREQUALIFIED QUALIFIED BY TESTING
 OF PROCEDURE QUALIFICATION RECORDS (PQR) Yes

Edward P. Naclans
 Company Name Richard Village Foundation
 Welding Process(es) FCAW
 Supporting PQR No.(s) 78-028-001

Identification # 1
 Revision N/A Date _____ By Ed. Naclans
 Authorized by _____ Date 4-13-04
 Type—Manual Semi-Automatic
 Machine Automatic

JOINT DESIGN USED
 Type: _____
 Single Double Weld
 Backing: Yes No
 Backing Material: ASTM A30
 Root Opening 1/4" Root Face Dimension _____
 Groove Angle: 45° Radius (J-U) _____
 Back Gouging: Yes No Method _____

POSITION
 Position of Groove: 07G Fillet: _____
 Vertical Progression: Up Down

BASE METALS
 Material Spec. ASTM A30
 Type or Grade _____
 Thickness: Groove 1/4" Fillet _____
 Diameter (Pipe) _____

ELECTRICAL CHARACTERISTICS
 Transfer Mode (GMAW): Short-Circuiting
 Globular Spray
 Current: AC DCEP DCEN Pulsed
 Other _____
 Tungsten Electrode (GTAW)
 Size: _____
 Type: _____

FILLER METALS
 AWS Specification AWS 570
 AWS Classification E71T-1

TECHNIQUE
 Stringer or Weave Bead: Stringer / Weave Bead
 Multi-pass or Single Pass (per side) Multi-Pass
 Number of Electrodes 02
 Electrode Spacing
 Longitudinal _____
 Lateral _____
 Angle _____

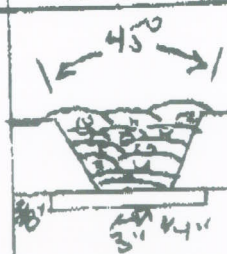
SHIELDING
 Flux _____ Gas Argon/CO2
 Composition 92% Ar / 8% CO2
 Electrode-Flux (Class) _____ Flow Rate 35-40 CFH
 Gas Cup Size 3/8"

Contact Tube to Work Distance 3/4"
 Peening _____
 Interpass Cleaning: None with Pencil
Carbon Hammer / Scraper as Spatter

PREHEAT
 Preheat Temp., Min _____
 Interpass Temp., Min _____ Max _____

POSTWELD HEAT TREATMENT
 Temp. _____
 Time _____

WELDING PROCEDURE

Pass or Weld Layer(s)	Process	Filler Metals		Current		Volts	Travel Speed	Joint Details
		Class	Diam.	Type & Polarity	Amps or Wire Feed Speed			
1-13	FCAW	E71T-1	.045	Vertical DCET	Variable 200 AMP	26.5		

Form E-1 (Front)



Cert # 0009030W Edward P Nadeau SSN# 257-98-2162



Qualifications 01.1-SM-F4-P-A-L

ID# 007-44-1265 Issued 6/7/96

Ronald H. Moody

Valid Only if Accompanied By Photo ID

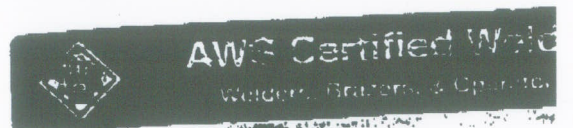


Qualifications G-DT.1-SM-F4-P-A-L

ID# 397-54-1403 Issued 6/27/96

Gary H. Zarate

Valid Only if Accompanied By Photo ID



Qualifications G-DT.1-SM-F4-P-A-L

ID# 007-72-9877 Issued 8/2/96

Solomon R. Gay

Valid Only if Accompanied By Photo ID

307

Form E-4
 Manufacturer or Contractor _____
 Authorized By _____ (yes)
 Date _____
 Organization _____
 Inspected by _____
 Test Number _____
 Date _____
 We, the undersigned, certify that the statements in this record are correct and that the test welds were prepared, welded, and tested in accordance with the requirements of section 4 of AWS D1.1. () Structural Welding Code—Steel.

File Identification Number	Results	Remarks
Edward	Acceptable	

RADIOGRAPHIC TEST RESULTS (4.30.3.1)

Organization _____
 Date _____
 Test Number _____
 (Describe the location, nature, and size of any crack or tearing of the specimen.)
 Appearance
 Fillet Test Results (4.30.2.3 and 4.30.4.1)
 Groove Test Results (4.30.2.3 and 4.30.4.1)
 Macroetch
 Fracture Test Root Penetration
 Type
 Result
 Guided Bend Test Results (4.30.5)
 Acceptable YES or NO
 Visual Inspection (4.1)
 Result

Other	Gas/Flux Type [Table 4.10, item (3)]	F-No. [Table 4.10, item (2)]	Class	Spec. No.	Filler Metal [Table 4.10, item (3)]	Filler	Groove	Diameter: (pipe)	Fillet	Groove	Thickness: (pipe/nube)	Filler	Groove	Thickness: (plate)	Base Metal	Material/Spec.	Backing (YES or NO) [Table 4.10, item (7)]	Weld Progression [Table 4.10, item (5)]	Position [Table 4.10, item (4)]	Current/Polarity	Electrode (single or multiple) [Table 4.10, item (6)]	Process/Type [Table 4.10, item (1)]	Variables

Welder, Welding Operator, or Tack Welder Qualification Test Record
 Name _____
 Identification No. _____
 Date _____
 Type of Welder _____
 Welding Procedure Specification No. _____

INSPECTION REPORT	
<p>CUSTOMER'S NAME: PRECISION WELDING & FABRICATION P.O. NO. _____</p> <p>RADIOGRAPHY REPORT NO.: QAT-04-280</p> <p>JOB NO.: _____</p> <p>PART NO.: 1st WELDER TEST PLATE</p> <p>SOURCE: TYPK Indium 192 SIZE: 118 X 132</p> <p>CURIES: 24.9 MA: _____</p> <p>SIZE: 4 1/2 X 10 WHEELS: 0.010" BACK: _____</p> <p>PLATE TYPE II GROUP I</p> <p>ASTM "B" WIRE REPRODUCTION: 025</p> <p>MATERIAL TYPE C/S TECHNIQUE: 1st</p> <p>ACCEPTANCE STANDARD: AWS D11.1</p> <p>OTHER: _____</p>	<p>10. Size 11. Weld</p> <p>12. Material 13. Backing</p> <p>14. Electrode 15. Exposure</p> <p>16. Reproduction 17. Film</p> <p>18. Developer 19. Fixer</p> <p>20. Wash 21. Dry</p> <p>22. Storage 23. Reading</p> <p>24. Interpretation 25. Reporting</p> <p>26. Retention 27. Archiving</p> <p>28. Disposal 29. Safety</p> <p>30. Quality Assurance 31. Compliance</p>
<p>DATE: 05/05/2004 REVISION: 11</p> <p>SIGNATURE: D. Pratt #2368772</p>	
<p>METHODS, PROCEDURES (S), PROCEDURES (S) ADOPTED (S)</p>	
<p>REMARKS</p>	
<p>EDWARD 0-1 9 1</p>	



CERTIFICATE OF CONFORMANCE

(APPLIES ONLY TO U.S. PRODUCTS)

SUPPLIED TO:

Order No.:

Production Code No.:

Size:

Product: Code-Ac[®] 7018 MR™

Classification: E7018 ALSO MEETS THE REQUIREMENTS OF E7018HQ

Specification: AWS A5.1-01, ASME SFA-5.1

Date Completed: May 1, 2000

(1 Year)

This is to certify that the product named above and supplied on the referenced order number is of the same classification, manufacturing process, and material requirements as the material which was used for the test that was conducted on the data shown, the results of which are shown below. All tests required by the specifications shown for classification were performed at that time and the material tested met all requirements. It was manufactured and supplied according to the Quality System Program of the Lincoln Electric Company, Cleveland, Ohio, U.S.A., which meets the requirements of ISO 9002, NADCAP, ANSHAWNS A5.01, AS Z 9992, and other specification and Military requirements, as applicable. The Quality System Program has been approved by ASME, AWS, and VATTU.

Qualifying Settings, Mechanical Properties (in the as-welded condition) and Chemical Analysis of the weld deposit were as follows:

APPROXIMATE REQUIREMENTS	E7018		3M18		3M4	
	AC	DC+	AC	DC+	AC	DC+
Current (amp)	100	175	250	220	365	325
Weld Thickness (in.)	3/4	3/4	3/4	3/4	1	1
Preheat Temp. (°F)	100	100	140	140	100	100
Interpass Temp. (°F)	225 to 250	225	225	225	225	225
Tensile Strength (psi)	92,000 min.	82,700	81,400	81,800	81,700	76,500
Yield Strength (psi)	70,000 min.	60,200	60,000	60,700	60,200	64,200
Elongation, 5 in. (in.)	20	20	28	28	31	31
Hardness, Rockwell B (max)	91	97	96	97	97	96
Impact Properties (Charpy V-notch) at -20°F	70	102	84	104	✓	106
	(84, 84, 80)	(130, 141, 208)	(81, 84, 80)	(70, 110, 120)	(88, 104, 140)	(100, 140, 201)
% C	.08	.05	.06	.05	.06	.05
Mn	1.20	1.24	1.11	1.10	1.09	1.10
Si	.50	.50	.50	.50	.40	.50
Cr	.05	.05	.05	.05	.05	.05
Ni	.04	.04	.04	.04	.04	.04
Mo	.01	.01	.01	.01	.01	<.01
V	.00	<.01	<.01	<.01	.01	.01
Total alloy (C+Mn)	1.75 max.	1.30	1.25	1.30	1.10	1.24
Coating Thickness (M)	0.8 max.	0.7	0.8	0.8	0.8	0.8

ROBUSTNESS TEST, Grade 1: Met requirements.

EMT Yield Test (positions as specified): Met requirements.

NOTES: SIZES ARE CLASSIFIED AS E7018HQ, PER AWS A5.1-01.

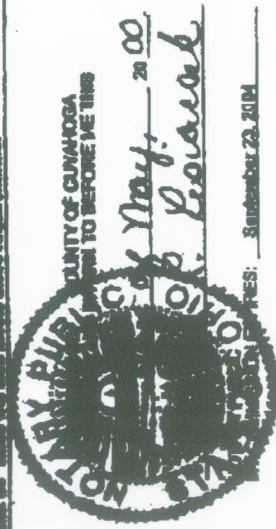
The steel and hardware specified to be tested for this classification are 303, 316 and 304.

The steel and hardware specified to be tested for this classification are 303, 316 and 304.

The steel and hardware specified to be tested for this classification are 303, 316 and 304.

EMT Yield Test (positions as specified)	303	1/4"
EMT Yield Test (positions as specified)	316	1/4"
EMT Yield Test (positions as specified)	304	1/4"

(1) Test atmosphere condition of 20% relative humidity at 75°F. Total of 21 grams of moisture per pound of dry air.



Cert. No. 61500

of May 20 00
of Louis

Donald J. Bell
DONALD J. BELL, CERTIFICATION SUPERVISOR

DAVID A. THOMAS, MANAGER, MATERIALS PRODUCTS
CONSUMABLE R & D DEPT.

RES: September 23, 2004