



ARC Enterprise
 Steve Howard
 27 Commercial Road
 P.O. Box 120
 Kingfield, ME 04947

Vermont Agency of Transportation

RECEIVED

CK'D BY David Peterson OK'D BY JWC

Apr 26, 2012

Report #: 1 Page 1 of 1
 P.O. #: 5062
 Lab #: 100275
 Date Received: 4/23/10
 Date Tested: 4/26/10
 Work Order: G5513

Date: April 26, 2010

RESUBMIT APPROVED ✓
 BY C. CARLSON DATE 5/7/12

WELDING PROCEDURE QUALIFICATION RECORD (WQR) 45							
Fabricator:	ARC Enterprises, Inc.		Date Welded:	4-14-10			
Welding Process (es):	SAW		# of Passes:	18			
Welding Position:	1G		Filler Metal Specification:				
Electrode:	Lincoln LA-75		Filler Metal Classification:				
Flux Mfg. Designation:	960						
Types:	<input type="checkbox"/> Manual		<input type="checkbox"/> Automatic		<input type="checkbox"/> Semi-Auto		
Electrode	Diameter	Current	WFS*	Volts	Current	Polarity	
1	3/32"	400	N/A	30	DC	Positive	
Shielding Gas:	N/A		Flow Rate:	N/A		Dew Point:	N/A
Preheat Temp:	75°		Interpass Temp:	450° F maximum			
Material Specification:	A709 Gr 50W		Material Thickness:	1"			
Welding Witnessed By:			Welded By:	Jim Gentile			
SPECIMEN		TEST RESULTS					
ALL WELD METAL TENSION (AWMT)	Tensile Strength (psi):	84,000					
	Yield Strength (psi):	68,000					
	Elongation in 2" (%):	29					
	Reduction in Area (%):	67					
SIDE BENDS	1. Pass	2. Pass	3. Pass	4. Pass			
REDUCED SECTION TENSION	Tensile Strength 1:	89,000		Location of Break 1: Base metal			
	Tensile Strength 2:	66,500		Location of Break 2: Base Metal			
CHARPY IMPACT (WELD METAL)	Charpy 1:	59	44	54	55	Avg. Ft-Lb: 54.7 @ 0° F	
	Charpy 2:	Avg. Ft-Lb:					
CHEMISTRY ELEMENTS	C	Cr	Mn	Mo	Ni		
	S	Cu	Si	P	V		
MACROETCH	1. Acceptable	2. Acceptable	3. Acceptable				
RADIOGRAPHIC TEST RESULTS							
Film I.D.	Results	Remarks	Film I.D.	Results	Remarks		
N/A							

Per Inspector: J. Pete Merther, P.E.

Process date: 4/26/10

Testing witnessed by: N/A

Witness date: N/A

Does meet the requirements of AWS D1.5 - 2008



Frank M Adragna

CWI 91060621

QC1 EXP. 6/1/2012

Respectfully submitted,

David Peterson

Non-Destructive Testing Services, Inc.

Testing was performed in accordance with accepted industry practice as well as the test methods referenced. Non-Destructive Testing Services, Inc. has no direct knowledge of the origin, sampling procedure, nor condition of the samples, and makes no claims as to the suitability for final use of the material. This test report applies only to those items tested. This report shall not be reported except in full without the written consent of Non-Destructive Testing Services, Inc.

APR 26 2012