Purchase Order No. 1503385P Work Order No.

FORM R-1 REPORT OF REPAIR

in accordance with the provisions of the National Board Inspection Code

1.	(name of repair organization) 701 Morley Road, Green Bay, Wisconsin, 54303	52 (Form Registration No.) 1502356P
2.	. Owner ST. Paper LLC	(Pa No.,Job No.,etc.)
	(name) 106 E CENTRAL AVE, Oconto Falls, Wisconsin, 54154 (address)	
3.	Location of installation ST. Paper LLC	
	106 E CENTRAL AVE, Oconto Falis, Wisconsin, 54154 (address)	. A transferred data data.
4.	Item identification Boiler Name of original manufacturer (boiler, pressure vessel or piping) Name of original manufacturer between the property of t	lurst Boiler and Welding
5.	• Identifying nos.: HYB9750-200-1 14245 B0088276 (Mattonal Board No.) (Jurisdiction No.)	N/A 2008 (other) (year built)
6.	- NBIC Edition / Addenda: 2007 N/A (edition) (addenda)	·
	Original Code of Construction for Item: ASME section 1 (name/ section/ division)	2007/ (edition/ addenda)
	Construction Code Used for Repair Performed: ASME section 1 (name/ section/ division)	2013/ (edition/ addenda)
7.	Repair Type: Welded Graphite Pressure Equipment	FRP Pressure Equipment
8.	. Description of work: Form R4 Supplemental Sheet is attached FFSA Form (Replace 1 - 3" SA178 .105 wall tube in the 3rd pass by mechanically expand and tube sheet. Plug 2 - 3" tubes in the 2nd pass by installing plugs on each end and to tube.	NB-403) is attached bead tube ends into seal weld plug
/**** 5	Hydrostic Pressure Test, if applied 190 psi MAWE	200 psi
9.	Replacement Parts. Attached are Manufacturer's Partial Data Reports or Form R-3s properly col	npleted for the following items of this report:
	(name of part, item number, data report type or Certificate of Compliance, mfg. name, and identifying stamp)	
10.	0. Remarks: ** REPAIR OF ROUTINE NATUREDOES NOT REQUIRE INSPECTION BY AUTH	ORIZED INSPECTOR **
	CERTIFICATE OF COMPLIANCE	
	I, Thomas Arnoldi, certify that to the best of my report are correct and that all material, construction, and workmanship on this Repair confo	knowledge and belief the statements in this
	National Board "R" Certificate of Authorization No. 6276	expires on May 21, 2015
	Date 03/19/2015 , Mechanical Technologies, Inc. Signed (name of repair organization)	(authorized representative)
	CERTIFICATE OF INSPECTION	
	I, Mark F. VanCampenhout , holding a valid Commission issued by The Vessel Inspectors and certificate of competency, where required, issued by the Jurisdiction employed by HSB Global Standards of inspected the work described in this report on April 1, 2015 and state that to the complies with the applicable requirements of the National Board Inspection Code. By signing this certificate, neither the undersigned nor my employer makes any warranty, expectively damage or loss of any kind arising from or connected with this inspection.	of WI, MI and have best of my knowledge and belief this work apressed or implied, concerning the work
	Date April 1, 2015 Signed M. I. J. U.C. Commissions (inspector)	13264, Wi1048636, MI300540 (National Board and Jurisdiction No.)

2242904

FORM P-2 MANUFACTURERS' DATA REPORT FOR ALL TYPES OF BOILERS EXCEPT WATERTUBE AND ELECTRIC

5₽^{~~1}4.P. As Required by the Provisions of the ASME Code Rules, Section I <u> 21971 US HWY. 319 N., COOLIDGE, GA. 31738</u> actured by Hurst Boiler and Welding Company Inc. (Name and address of Manufacturer) SPIRIT CONSTRUCTION SERVICES, INC.; 3131 MARKET STREET; GREEN BAY, WI. 54304 Manufactured for (Name and address of purchaser) ST PAPER - OCONTO FALLS TISSUE; 106 E. CENTRAL AVE.; OCONTO FALLS, WI. 54154 Location of installation (Name and address) Year Built _ 14.245 0700142 HYB9750-200-1 Boiler No. _ (Nat'l. Board No.) (Drawing No.) (Mfr's, Serial No.) (CRN) The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to Section I of the ASME Boiler and Pressure Vessel Code (vear) NONE _ and Code Cases NONE Addenda to (Numbers) anufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors are attached for the following items of this report: NONE (Name of part, item number, mfr's name and identifying stamp) 268.25" 3/4" SA-516-70 Shells or drums: (length, inside) [dia. (ID)] (length, inside) [dia. (ID)] [thickness (in.)] (mat'l. spec., gr.) WELDED <u> 100% </u> (no. of shell courses) [girth (seamless, welded)] [efficiency (as compared to seamless)] [long. (seamless, welded)] 7/8" THK SA-516-70 Heads: (Material Specification No.: Thickness - Flat, Dished, Ellipsoidal - Radius of Dish) Tube Holes: 7/8" THK SA-516-70 (Dia) (Matl'I. Spec., Grade, Thickness) STRAIGHT SA-178-A (Straight or Bent) (Mat'l. Spec., Grade) Length (or thickness) Dia (if various, give max & min) Total Length, each section NA Size I. Furnace No. ___NA_ (O,D, or W x H) NA Type (Plain, Adamson, Ring Reinforced, Corrugated, Combined, or Stayed) Seams: Type NA (Seamless, Welded) (Mat'l. Spec., Grade, Thickness) 100.54" SO. Size . Staybolts: No. 32_ - (Dia. Mat'l., Spec., Grade, Size Telltale, Net Area) MAWP 12,75" Pitch (Hor. and Vert.) 1. Stays or braces: MAWP, Fig. PFT-32 Dist. Tubes May No. & Material to Shell osi. Type Pitch U1Size Location Spec. No. 46" 200 13 (16)2"12.75" DIAG. SA-675-70 (a) F.H. above tubes 200 46" 13 (16) 2"SA-675-70 (b) R.H. above tubes NA (c) F.H. below tubes NA (d) R.H. below tubes (e) Through stays NA (f) Dome braces NA 3. MEMBRANE HEADERS 2. MEMBRANE HEADERS Carparts 1. MEMBRANE TUBES (Brief Description - I.e., Dome, Boiler Piping, etc.) 200 P.S.I (124) 2-1/2" X .105", SA-178-A BENT BOILER TUBES,12 GAUGE (3) 10" SCH 40, SA-106-B PIPES, T. & B. MEMBRANE HEADERS, - (2) 10" STD. WELD TEE'S, SA234 GR WPB,

(Mat'l Spec Grade Size Material Thickness, MAWP)

200 P.S.I

Platcom 01-02E01

(3) 10" 300# R.F., BLIND FLGS., SA-105 - (3) 10" 300# R.F., W.N. FLGS., SA-105,

FORM P-2 MANUFACTURERS' DATA REPORT FOR ALL TYPES OF BOILERS **EXCEPT WATERTUBE AND ELECTRIC**

500 H.P.

As Required by the Provisions of the ASME Code Rules, Section I

·									01/200
l. act		and Welding Compar		(Name	and address	1 US HWY. of Manufacture	r)	•	
Manufact	tured for <u>SPIRIT CO</u>	ONSTRUCTION SER	VICES, INC	C.; 3131 MA (Name	RKET STR and address	EET; GREEN of purchaser)	IBAY, WI. 5	4304	
Location	of Installation STPA	PER - OCONTO FAI	LS TISSUE	E; 106 E. CE	NTRAL AV (Name a	nu auuress)			
Туре: Н	YBRID Boil (HRT, etc.)	er No. <u>HYB9750-2</u> (Mfr's, Serial		NA (CRN)	070014 (Drawing		14,245 Nat'l. Board No.	Year Built	_2008_
The chem	e design, construction, at	erties of all parts meet th nd workmanship conform	10 2500011 1 01	THE AGINE DO	nor and rise	ons of the ASM sure Vessel Co	E BOILER AND de	<u></u>	VESSEL 007 ear)
Addenda	to NONE	and Coo	le Cases	1)	VONE Vumbers)	· · · · · · · · · · · · · · · · · · ·	***		,
nufacturer	's Partial Data Reports pr	operly identified and signe	d by Commiss	ioned Inspecto	rs are attache	d for the followin	g items of this re	port:	
NONE		(Name of pa	rt. Item numbe	er, mfr's name	and identifyin	ng stamp)	<u></u>		
		(144113 51 F	•						
Shells or	drums: 1	SA-516-70 (mat'l. spec., gr.)	3 [thickne	/4" ess (in.)] [268.25 ³ (length, insid	le) [dia. (IE	(len	<u>NA</u> gth , inside)
Joints: _	WELDED		100%	o seamless)]	fairth (sea	WELDED amless, welded)	1 (no	o. of shell cour	ses)
	long. (seamless, welded	7/0" TI	I/	FLAT		NA			
Heads:	SA-516-70	(Material Specif	ication No.: Th	nickness - Flat	Dished, Ellip	soidal - Radius	of Dish)		
beshee	et: <u>SA-516-70</u>	7/8" TH	ζ	Tube Holes:			3" (Dia)		
	·	pec., Grade, Thickness)	170 A				STRAIGE	IT	
. Tul	bes: No.	(546) SA- (Mat'l. Spec., Grad	1 / 8-A. le)		·		(Straight or Ber	nt)	
	3"	Length (if various, give n		2-1/2"	Gauge		12		
Dia							ickness)		
. Furnace	No. <u>NA</u>	Size <u>NA</u>	Lengt	h, each secti	on	NA	Total	<u>NA</u>	
	<u>-</u>	(O.D. or W x	H)						
Type _			denen Din	NA - Baisinrond (combined, or Sta			
	,	•	damson, rung					4	
_	(Matil Spec	NA c., Grade, Thickness)					(Seamless,		
Ctaubali	(Mat 1. Spec ts: No. 32		re	2"	SA-67	5-70	100.	54" SQ	
. экаурон	15. 140. 32				- (Dia. i	Mat'l., Spec., (Grade, Size T	elitale, Net A	rea)
Pitch _	12.75" (Hor, and Vert.)	MAWP	20	00	psi.	•			
. Stays o	r braces:			· · ·		<u> </u>	T	la casage	
	Location	Material Spec. No.	Type	No. & Size	Max. Pitch	Fig. PFT-32 L/ I	Dist. Tubes to Shell	MAWP,	
l	(a) F.H. above tubes	SA-675-70	DIAG.	(16) 2"	12.75"	13	46"	200	
II.	(b) R.H. above tubes	SA-675-70	DIAG.	(16) 2"	12.75"	13	46"	200	
10	(c) F.H. below tubes	NA			·	 		 	
ļ	(d) R.H. below tubes	NA				1			
	(e) Through stays	NA	 	 				 	
. [(f) Dome braces	NA	<u> </u>	<u> </u>		1	1	<u> </u>	
* <u>-</u> -er p	oarts 1. <u>MEMBRAN</u>	E TUBES	2. <u>MEMB</u>	RANE HEA	DERS		3. <u>MEMBRA</u>	NE HEADE	RS
		. 150 4 DESTE DOT	•				00 P.S.I.		
1. (12	24) 2-1/2" X .105", SA	A-178-A BENT BOIL G-B PIPES, T. & B. M	EK LUBES, EMDDANE	TEADERS TAGAUGE,	- (2) 10" S'			GR WPB.	200 P.S.
2. (3)	10" SCH 40, SA-106	DELCE CA 105 /	2) 10" 200#	DE MNI	1.GS SV-	 	200 P.S.I.		
3. <u>(3</u>)) 10" 300# R.F., BLIN	<u>ID FLGS., SA-105 - (3</u>	<u> </u>	O Ci I	Intorial Thinks	ness MAWP)		Platcon	1 01-02E01

(Mat'l. Spec., Grade, Size, Material Thickness, MAWP)

Platcom 01-02E01

II.V.A.C.

SYSTEMS SERVICE INC.

ASME POR

Page 1 of 2

02.	
Procedure Qualification Record No.: 311-SM	-O-E60/70 PQR Date 4/10/98
Supporting WPS No.(s) 311-SM-O-E60/70	
Welding Processes Shielded Metal Arc Welding	(SMAW)
Type (Manual, Automatic, Semi-auto) Manual	
Joints (QW-402)	
Actual Deposit Thickness of Each Filler & Process used Must Be Recorded;	137 /2
Process Thickness	
(F-No. 3) 0.125"	0.375"
(F-No. 4) 0.250" 0.0	0.093"
Base Metals (QW-403)	Post Weld Heat Treatment (QW-467)
Material: SA 106 to SA 106	Temperature None performed
Type or Grade GRB to GRB	Time
P-No. 1 Group-No. to P-No. 1 Group-No.	Other
Thickness of Test Coupon 0.375" (machined)	Gas (QW-408) Gas(es) Mixture Flow Rate
Diameter of Test Coupon 2" NPS	Shielding N/A CFI
Other	Backing N/A CFF
Filler Metals (QW-404)	Trailing N/A CFF
SFA Spec. SMAW, 5.1	Electrical Characteristics (QW-409) (F-No. 3) (F-No. 4)
AWS Class E6010 & E7018	Current Direct (DC) Direct (DC)
Filler Metal F-No. E6010, F-No.3 E7018, F-No. 4	Polarity Reverse Reverse
Weld Metal Analysis A-No.: 1	Amps 75 97 - 105
Size of Filler Metal	Volts not recorded not recorded
(F-No. 4)	Tungsten Electrode Type & Size N/A
1/8" 3/32"	Orifice Size
Position (QW-405)	Technique (QW-410) Travel Speed - IPM String/Weave
Position of Groove 6G	(F-No. 3) not recorded String
Weld Progression (uphill, downhill) Uphill	(F-No. 4) not recorded String
Other	(i No. T) not rooting
Preheat (QW-406)	
Preheat Temperature 65° F (ambient)	Single or Multipass (per side) Multipass
Interpass Temperature Not recorded	Single or Multiple Electrodes Single
Other	Other

At have the motion

CERTIFIED MILL TEST REPORT

TEKtube 4150 South Elwood Tulsa OK 74107

Phone: 918 446-4561

CUSTOMER

Chicago Tube & Iron

TUBE: Tube 3.00 OD x . 105 MW

Customer PO No: CB0762 Sales Order No: 20131634 MTR Date: 11/8/2013 MTR No: 20131634

ASME SA-178-A ERW 2010 EDITION, 2011 ADDENDA

ALUMINUM KILLED STEEL

Elong.

*IAL*386_235932 236545 JA (304 236546 JA1323, JA1351 HEAT NO. 0.070 0.070 0,070 ဂ 0.47 0,49 0.47 Mn. 0.006 0.007 0.007 Ψ. 0.001 0,001 0.001 ហ 0.030 0.030 0.030 0.040 0.030 0.030 6 .140 .140 .130 58 / 59 59 / 60 58 / 59 HRB. Plai Tensile

JA1379,JA1386 JA1400

TESTING

FLANGE, FLATTENING, FLARE, REVERSE FLATTENING, U.T. TEST ON WELD AREA IN ACCORDANCE WITH ASME SA-450 AND SE-309, 2010 EDITION, 2011 ADDENDA PER E273 AND ASME, 100% FULL PERIPHERY (ENCIRCLING COIL) EDDY CURRENT TEST USING 0.024" DIAMETER DRILLED HOLE (-.000 / + .002) ARE SATISFACTORY

COMMENTS: TAG INFO: JA1323; JA1351; JA1379; JA1386; JA1400; JA1304 |

of the specification requirements. Tubes manufactured in USA. and inspected in accordance with above specifications and meets all We certify that each lot has been manufactured, sampled, tested

> Signature: 11/ Date: ///

701 MECHANICAL TECHNOLOGIES, INC.

씨가 기가 사용 MATERIAL RECEIVING INSPECTION REPORT

Green Bay, WI 54303	701 Morley Road	MITCHANICAL INC. NOTOCITO
		'n

Project: Stock

Purchase Order No: 49248

Date Received: 4-24-14

Vendor / Supplier: Chicago Tube & Hon-

Carrier: Chicago Tube & Iron

Quality Control Manager Approval: >

								 			,			
													ITEM	
		 _	 _	 	_		_	 		ເນ	2			\neg
										25	35	25	QUAN.	
						And the second s	The second secon			25 3" OD X ,105 WALL SA178A Welded Tubes	35 2 1/2" OD X .105 SA178A Welded Tubes	25 2" OD X 12 GA X 26' SA178A Welded Tubes	DESCRIPTION	
INSPECTIONS									13 to 1830 p. n. haasin vadigu quasid pad garddig,	236545	58875D	134482.,	SERIAL NO. MEASUREM	HEAT, LOT OR
S										25	20'	26'	MEASUREMENTS	THICKNESS
			 			 				Þ	А	A	-	
			 	 						⊅	A	Α	2	A- AC
	-					 				A	A	D		A- ACCEPT / R-REJECT
	-									Α	A	A	<u>.</u>	REJE
													is	121
	L			 <u></u>		 		 						<u> </u>
				- Carlotte									Q.C. RELEASE	

.) The required consumentation has been received. The markings and identification on the products agree with the identification described on the documentation, For plate, pipe and bar, venified markings are recorded under "DESCRIPTION" above.

.2 Products received agree with the description on the Purchase Order, items are properly marked and in good condition (no chipping donnege).

3 C cf Cs (or mill markings) and MTHs have been reviewed - characteristics required to-be reported by the material specification and Purchase Order have been reported. have been reviewed against the respective ASME material specification(s) and test mastrix are exceptable (sign and date MTR).

A Maleria's have been physically inspected to determine the absence of manufacturing detects (such as tamentation). Ementional inspections have been much and thicknesses, diameters and other childsi dimonsions are occeptable (bittiness readings have been recorded above).

.5 Formed heads have been checked for dish and knuckle radii. II applicable, UCS.78(d) criteria has been mul and recented. Vicinum thickness after benefing has been reported.

If any of the above attributes are not applicable, enter *NiA*.

PORRADATED GATORII

CENTINEER MATERIAL TOTAL SEPONDE COSTONEER SILE TO COSTONEER S	SitaPE S	250 250 250 250 250 250 250 250		inspected and Approved	A50 & 3 (U.)	duding the billets, was melted and manufactured in
SOA PASS PASS	CUSTOMER SHP TO CUSTOMER BILL TOST REPORT OUTSTOWER BILL TO OUTSTOWER BILL TO CUSTOWER BILL TO CUSTOWER BILL TO CUSTOWER MATERIAL N° HR200 E ORDER NUMBER BILL OF LADING DATE 1332-000007008 QM2272013	The color The	5710.3	Maternal 100% inclined and tolled up the USA. Manufacturing processes for this steet, which may include strap melted in an electric are furnace that have been performed at Gentra St. Paul Mill. 1678 Red rock Rd. St. Paul Minneson. USA. All produced from strand from strand included to the configuration of the configuration	ATAN 4-16	themical and physical test records as contained in the permanent records of company. This traderial, inclu- EN 10204 3.1. BHASKAR YALAMANCHILI CUALITY DIRECTOR

MTI

701 Morley Road Green Bay, WI 54303



REFERENCE ASME GENERAL WELDING PROCEDURE WITH THIS SPECIFICATION A TYMUR 4-1-15

Welding Procedure Specification - ASME Sect. I	IX - QW-201.1	WPS No.31/10C-SI	M-O	Page 1 of 2
Supporting PQR No.(s) 31/10C-SM-O PQR		Title: Shielded Metal	Arc Welding P-No	. 1 to
Welding Processes Shielded Metal Arc Welding Typ	oe Manual	P-No. 10C Materials	_	
Typ	oo Manaa	B31.1, B31.3, ASME	Section I and VIII,	Div. 1
Approved By:		1		
Date	3/2///			
Joints (QW-402) See Engineering Drawings for	or additional Joint D	esigns 70	o° Minimum 📝	
Joint Design; "V" Groove, Fillet and Socket Welds.	_	A	3	
Qualified without backing, backing with Same "P-No." material is optional.	_			
Root Spacing: "V" Groove, open butt, 1/16" to 3/16"	_		(il discussion)	<u>a</u>
Root Spacing: "V" Groove, with backing, 1/8" to 1/4"	-	•	1 11	
Maximum Mismatch: 1/16" (Groove joints)	-	<u>ز</u>	III kaassaasaasaa	<u>.</u> j)
				? ^2 1
, 37.5° ± 2.5°			7	
011 1 (1011				
0" - 1/16" Maximum	\ _\psi _			*- H
Maximum VIIII	A .			/ I · ·
- XIIIIII \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<u> </u>		Approx. 1/16"	1.7
BACKING OPTIONAL	\		before welding	الما
0.	750" Max.		SOCKET WEL	D FITTING
Base Metals (QW-403)				
P-No. 1 Group No. 1 & 2	to P-No.	10C Gro	oup No.	1
Thickness Range				
Base Material; Groove 0.0625" to 0.750" Maximum	F:11-4	l Indicate d		
Deposited Weld metal	rinet _	Unlimited		
Groove F-No. 3, 0.186" Maximum	Fillet (0.500 Maximum Thr	oat Thickness	
Groove F-No. 4, 0.564" Maximum		0.500 Maximum Thr		·
Groove				
Pipe Diameter Range Unlimited		Jnlimited		
Filler Metals (QW-404)				
SFA Spec. 5,5	F711	- 1 2 /E0010 D1) a	and 4 (E0049 C0)	
		-No. 3 (E8010-P1) a		
AWS Class E8010-P1* and/or E8018-C3** * E8010-G may be substituted for E8010) D+		E8010-P1 A-No. E8018-C3 A-No.	
** E8018-C1 may be substituted for E801			. E00.10-02 Y-M0	: 10
Size of Filler Metals See Table on page 2 of 2	10 00.			
Position (QW-405)	Preheat (QW-406)	See page 2	of 2 for additional	notes
Position of Groove All	Material	Minimum	Maximum Into	erpass
Weld Progression (uphill, downhill) Uphill	Thickness ≤0.500"	Temperature (°F)	Temperature	∍(°F)
Other		9U - F	650 ° F	
Post Weld Heat Treatment (QW-407)	>0.500" **	175° F	650 ° F	
emperature None	Preheat Maintenar			
ime		ompletion of the well		
Other		 F required for NBI red for all base mate 		
	- Tonear requir	CO IOI AII DASE IIIALE	mais 0vel 1/2.	

MTi

701 Morley Road Green Bay, WI 54303 WPS

Page 2 of 2 WPS No.: 31/10C-SM-O Gas (QW-408) Gas(es) Mixture Flow Rate Shielding N/A Backing N/A Trailing N/A Electrical Characteristics (QW-409) Tungsten Electrode Size and Type N/A Mode of Transfer for GMAW Wire Speed Feed Range N/A N/A Filler Metal * Current Range Weld Layer Welding Recommended Type Travel Speed - IPM No. Process Polarity Volt Range Amp Range Class Diameter 1" Minimum Open butt root** **SMAW** E8010-P1 0.093" DC-Reverse 45 - 90 21 - 26 DC-Reverse 70 - 125 23 - 28 1.5" Minimum E8010-P1 0.125" 70 - 110 1" Minimum 21 - 25Fill E8018-C3 0.093" DC-Reverse SMAW 0.125" DC-Reverse 100 - 150 21 - 262" Minimum E8018-C3 DC-Reverse 130 - 190 21 - 27 2.5" Minimum E8018-C3 0.156" * Alternate filler metal of same F-No may be used with above parameters. ** E8010-P1 may be omitted if backing is used. Technique (QW-410) Cleaning Prior to Welding - File or machine all scale / oxide to provide a clean bright surface for a min. of one inch from the anticipated toe of the weld. Complete cleaning with an approved solvent to assure complete removal of all harmful contaminates from both sides of the base metal. Precautions must be taken to prevent subsequent contamination of material surfaces. Incomplete cleaning can contribute to weld discontinuities. Interpass Cleaning - Chip, file, grind or brush as required to remove all slag and discontinuities from the weld surface which would be detrimental to the satisfactory completion of the weld. Arc Strikes - Arc Strikes outside of the area to be welded shall be avoided. Inadvertent arc strikes on the unwelded surfaces shall be repaired by blending to clean metal by mechanical means taking care to maintain thickness req'd. Method of Backgouging; Orifice size N/A Required for joints welded two sides; Single or Multipass (per side) Multipass backgouge to sound metal by thermal Single or Multiple Electrodes Single or mechanical means and clean of all String/Weave Root String, Remainder either stringer or weave. foreign material prior to welding the second side. Deposit Thickness No pass shall exceed 0.250" in thickness Peening None permitted Contact Tube to Work Distance N/A 1) E8010-P1 electrodes are limited to root passes when welding open butt joints. NOTES: 2) Filler metals may vary in size, and sequence used, to provide for physical configurations encountered. 3) Preheat should be monitored by pyrometer, temperature indicating crayons or other approved means. 4) Fillet welds to pressure parts require minimum of 175° F. preheat when thickness of the pressure part exceeds 3/4".



UAI NCPWB

Joint Welder Testing Program Welder Qualification Test Record



Welder's Name: Welder's Home Loc UA Test Assembly I			_SSN or UA ca UA Local 434 		City:	98862668 Camp L		mp No: P& W State:WI
Identification of WPS	S followed during	welding of	nditions ar	UA-2	2, NCPWB	(WPS 1-1	12-1) :kness(in.)	0.280
apecinication of res	. Coupon base in Welding				ıal Valı			ge Qualified
							1 2 24 1 8 4	
	vv. Type of welding (r		cess(es) used:		SMAW Manual			SMAW Manual
	or S-Number 1		P or S-number		1		1	through 11
			if pipe or tube):		Sch 40 (0	.280°)		in. OD and over
	king (metal, weld				/ Weld me	etal	F-3 Op	L, F-1, 2, 4 Reg'd
	er Metal (SFA) Sp				5.1			
Filler Meta	or Electrode Clas		(s) (into. only): _: ode F-Number: _:)10 / E701 3 / 4	8		through 4
Solid I	Filler Metal Jetal Cored or Flu				N/A			through 4 N/A
Cona, i			TAW or PAW:		N/A			N/A
Deposit Thic	kness for each pro				93 / 0.187	7	F-4, 0.374	/F-1/3, 0.560max
•			, 6G, 3F, etc.):		6G			Ali
			ohill, downhill): _		Uphill		 	Uphill
	N, Backing Gas fo ansfer Mode (sho				N/A N/A			N/A
	Surrent Type/Pola				N/A N/A			N/A N/A
* Indicates that at least 3					13/7			19/74
			esting and	l Result				
Visual Examination	of Completed W	eld:/	Acceptable	····	Date	of Test:_	Ju	ne 8 2011
Bend Test	Transvers	e Root an	d Face (QW-46	2.3(a))			Side (QW	-462.2)
Туре	Result		Туре	Res	ult	Ty	/ре	Result
ļ								
Radiographic Examir	ation Resulte:	Ι Δ	cceptable	Lob	Test No.:			
Film or Specimens E	valuated By:	sto Ros	2-		RT Teu	Comp	any: <u><i>A E</i></u>	= T
Contractor/Fabricator	· , , , 	Mit	BI-	Title: _	Α			
Contractor/r apricator	s Supervisor	FREE	<i>/</i>	ribe	KPD	Comp	any. <u></u>	eet Garet
We certify that the sta					upons wer	e prepared	d, welded a	and tested in
National Certified Pi	•		ssociation			Mike Rati	lle/Tweet G	Sarot
Welding Bureau	~1		ed Testing			· · · · · · · · · · · · · · · · · · ·		
Chapter Number: Secretary:		Represer Name:	Ken Thomps	son	Signatu	MI	eator Nam	e
-	8 2011	Date: —	June 8 201	1	Date:		June 8	2011
2005 Pay 3			I IA INICOIAID E	orm (NA) 49	24		/0c 200E	3E4) IBOT 03

Mechanical Technologies, Inc. 701 Morley Road

Green Bay, WI 54303

WELD PLAN WELD PROCESS TRAVELER

JOB NO.	2568	INITIATED BY (PLANNER): Tom Ar	noldi		DATE 3/15/20	115
	NOTIFIED / RELEASE	DATE 3/10/2015	TIME	_	AM PM	BY
PRIORITY	SCHEDULE DATE	QC APPROVED			RELEAS	SE DATE

EQUIPMENT DESCRIPTION Boiler		COMPONENT I.I		FACTURER rst Boiler	YEAR BUILT 2008
		MANUFACTURE HYB9750	R'S SERIAL NUMBEF -200-1	NATIONAL BOARD	NUMBER
		MAWP 20	O PSIAT PF	MDMT (IF APPLICABL	E) psi
EXCAVATION AND / OR WELD JOINT DETAILS		DESCRIPTION Rem	i of REPAIR nove & replac	e <u>1 - 3" tube in</u>	the 3rd
00000		pass. Plu	ug - 2 - 3" tub	es in the 2nd pa	ass and
000%			plug in place		
		KEY IDEN	SPECIFICATION OF M	ATERIAL TO BE WE	LDED THICKNESS
. (1 C) * O * O		1-4	5036	1	77 KOKI1255
0 0 0					
000 000 00 00 00 00 00 00 00 00 00 00 0		WELD NO	WELD/REPAIR LO	CATIONS (E.G. TUBE BAN	IK & NUMBER)
0 0 0 0		WELD #1 - 4	Seal weld -	<u>4 - 3" tappere</u>	d plugs
l <i>g g</i> ,					
l e		WELD 1	A comment of the comm		
v ·	PREHEAT °F	WELD#			
OA CHO CEOUR ON AND CLASSIFICATION	INTERPASS °F				
REPAIR WELDING AND INSPECTION OPERATIONS W	eld #1-4	We	ld #	Weld #	<u>f</u>
Check applicable instructions, use "N/A" if not applicable QC	Al	QC	Al	ac	Al
DEFECT EXCAVATION INSPECTION PRE-WELD INSPECTION OF SURFACE CONDITION MT UT M	. 15"				
OF SURFACE CONDITION MT UT					
FIT-UP AND ALIGNMENT CHECK					
ROOT INSPECTION VISUAL INSP.					
PT RT WITERPASS MT UT					
3-15-	.15				
FINAL WELD VISUAL	ı				
					Н
FINAL WELD PT RT EXAMINATION UT					
WELDERS IDENTIFICATION NUMBER PWA					
OTHER					
REPAIR COMPLETE AND CHECKED BY / DATE REPAIR COMPLETE AND CHECKED BY / DATE	w.M°	AUTHORIZED	INSPECTOR A	V-flt	4-1-15

Mechanical Technologies, Inc. REPORT OF PRESSURE TEST 14 - 1 mvc 4-1-105 701 Morley Road JOB NUMBER 1502356P Green Bay, WI 54303 PRIORITY PREPARED BY / DATE 3/11/2015 COMPONENT I.D. AND DESCRIPTION: MAWP: 200 TEST BOUNDARY: Boiler Refer To Drawing No. TYPE OF TEST (and test parameters): TEMPERATURE (° F): HYDROSTATIC AMBIENT TEST MEDIUM: STATIC HEAD ALLOWANCE: SOAP SOLUTION: PNEUMATIC STATIC HEAD INSIGNIFICANT TEST PRESSURE: EXAMINATION PRESSURE: OTHER ASME SECTION VIII, DIVISION 1 ASME B31.1 ASME SECTION I SPECIAL INSTRUCTIONS / SPECIFICATIONS: PRETEST CHECKLIST: 1. Modifications complete, including the isolation or removal of devices that will not withstand test pressure. N/A 2. Pressure test gauge installed and visible to operator. RANGE: 0 - 5000 psig SERIAL NO: 7679001001 CALIBRATION DUE: 9/24/2015 N/A 3. Temperature instrument installed: SERIAL NO: _____CALIBRATION DUE:_____ N/A 4. Pressure relief/regulating device installed: SETTING: ______psig N/A 5. Drains and vents installed and used during filling operation. N/A 6. All boundary valves checked and closed (check valves installed in correct direction) N/A 7. All through valces checked and open. 8. Test item thoroughly checked - no visible defects or damage. N/A TEST CONDUCT: TEST DATE: 3/11/2015 TEST PRESSURE AT GAUGE: 186 psig TEST PRESSUE _____ °F HOLDING TIME: 10 min. PRESSURE AT GAUGE DURING EXAMINATION: 185 psig TEST RESULTS (REMARKS) ITEM/SYSTEM RESTORED TO OPERATING CONDITION/CONFIGURATION - VERIFIED BY: ______ CONDUCTED BY: ______ QUALITY CONTROL APPROVED: _____ AUTHORIZED INSPECTOR ACCEPTANCE: _____ WITNESSED: ______ TITLE: _____ COMPANY: _____ WITNESSED: ______ TITLE: _____ COMPANY: ____

701 Morley Road Green Bay, WI 54303 MECHANICAL TECHNOLOGIES, INC.

WELDER PERFORMANCE 2014

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welding is performed for the six (6) months. month welding was performed. The welder's qualifications shall expire if no