National Board Number: Mfg. Representative: Authorized Inspector:

Rm

Date:

2-17-16

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS (Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only) As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

147.575.55										-				-	
1. M	anufacture	d and ce	ertified by		Carolina In	tegrate	d Sol	lutions.	157 D	Derrick R	oad, Spartar	nbura. SC	29303. US	SA	
2. M	anufacture	d for	-	Do	minion Tan	k and \	/esse	1. 1501	Valle		hmond, VA	23222. US	SA		
3. Lo	ocation of in	nstallatio	n		Evoni	ik, 420		ussa R	d. Mo	bile Cou	nty. AL 3658	2, USA			
4. Type Vertical (Horizontal or vertical, tank) (Man				293-08 N/A				(Name and address) 15515-08-1 R2				3 2015			
				nufacturer's serial number) (CRN)								Board number) (Year built)			
5. A	SME Code	, Section	VIII, Divisio	on 1Ed	2013 Ec	IITION if applicable	(date)]	-	(1	N/A Code Case nun	nbers)	[Spe	N/A cial service per U	IG-120(d)}	
6. SI	hell	SA-	240 316L		0.25"	0"		5'-6"						13'-9"	
			pec. number, grade)		minal thickness)	(Corr.	(Corr. allow.)		(Inner diameter)			[Length (overall)]			
				1 1		Body F	langes	on Shells				Bolti	ina		
	_	15	000		Min Hub		all the same of th	How		.		Bolting	Washer	Washer	
No.	Type N/A	ID N/A	N/A	Flange Thk	Thk N/A	Material N/A	-	Attached N/A	-	N/A	Num & Size N/A	Material N/A	(OD, ID, thk)	Material N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	_	N/A		N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A		N/A	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A		N/A	N/A	N/A	N/A	N/A	
7. Se	eams	Type	, sngl., lap, butt)	Spot [R.T. (spot or full)]			V/A N/A		A Type		e 1 bi., sngl., lap, butt)]	Spot	85%	2 (No. of	
о Ц		3.	i angui rapi battij								on, origin, inp, outing	courses)			
8. Heads: (a) Material				SA-240 316L (Spec. no., grade)				(b) Material				SA-240 316L (Spec. no., grade)			
	Location (Top Ends)		Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle	Radius	Elliptical	Ratio Conical Apex Angle		Hemispheric Radius	al Flat Diame	oter or	Side to Pressure (Convex or Concave)	
(a)	BOTTOM		0.4"	0"	66" IR			N/A			N/A N/A			Concave Concave	
(b)	BOTTO	JIVI [0.4	0	66" IR 4.25" IR						I N/A	I IVA I IVA I CC		JUNGAVE	
T	B						dy Flanges on Heads			Bolting					
	Location	Тур		OD	Flange Thk	Min Hub Thk		Material		How Attached	Num & Size	Bolting Material	Washer (OD, ID, thk)		
(a) (b)	N/A N/A	N/A N/A		N/A N/A	N/A N/A	N/A N/A	+	N/A N/A	\dashv	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	
(0)	IVA	1 IN/F	I IVA	INA	I IVA	INA		INA		IVA I	IN/A I	N/A I	IVA	1 10/A	
9. M	AWP		45 psi (Internal)		-14.7 psi at max				emp. <u>482.00 °F</u>			482.00 °F (External)			
	design me	etal temp	. <u>-20</u>	0.00 °F a	t <u>45</u>	psi	Hy	ydro., p	neu.,	or comb.	test pressur	re <u>H</u>	ydro, at 6	6 psi .	
		spection	, and safety		nings:	•						504			
Purpose (Inlet, Outlet, Drain, etc.)		etc.) No.	Diameter or Size	Туре	Nozzle	Material			Nozzle Nom.		Reinforcemen Material	Attachme Nozzle	nt Details Flange	Location (Insp. Open.)	
A2,A5,B1,V1		4	NPS 2	CI. 150 WN	SA-312 TP3	16L S/	Flan A-182	F316L	0.154		N/A	UW-16.1(e)	APP	Top and BTM Head	
L2,R1		2	NPS 4	CI. 150 WN	SA-312 TP3	16L S/	A-182	F316L	0.237	7" 0"	N/A	UW-16.1(e)	400	Top Head	
L3,L4		2	NPS 3	CI. 150 WN	SA-312 TP3	16L S/	6L SA-182		0.216	5" 0"	N/A	UW-16.1(e)	ADD	Top Head	
N1,P1		2	NPS 1	CI. 150 WN	SA-312 TP3	16L S	6L SA-182		0.133	3" 0"	N/A	UW-16.1(e)	APP	Top Head	
A3,T1		2	NPS 1.5	CI. 150 WN	SA-312 TP3	16L S	A-182	F316L	0.145	5" 0"	N/A	UW-16.1(e)	APP 2-4(6)	Shell -01	
Manway w/ Davit (M1)		(M1) 1	23.25" ID	CI. 150 WN	SA-240 316	6L S	SA-182		0.375	5" O"	SA-240 316L	UW-16.1(h)	APP 2-4(6)	Shell -01	
11. 8	Supports: S	Skirt	No (Yes or no)	Lugs _	4 L (Number)	4 Legs		A Oth		er _		Attached		2 - Welded re and how)	
			s Partial Data			and sign			sioned	Inspector	s have been fu	rnished for th			
items	of the report	: NOV	E		(Nar	me of part, it	em numb	oer, Manufac	turer's na	me and identify	ing stamp)				
Ch	on tost nor	formed i	n the horizo	ntal position	353										
	fety Relief	Chicago of the Control of the		mai DUSILIU	1	ONCOME THE OWNER, THE									
Od	iety neliel	DV OTHER	3,												
-						-									

National Board Number: 3

Mfg. Representative: Rm Date: 2-17-16

Authorized Inspector: NA Date: 2-mc

Form U-1A (Back)

CERTIFICATE OF SHOP/FIELD COMPLIANCE												
We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. "U" Certificate of Authorization Number												
Date 2-17-16 Co. name Carolina Integrated Solutions Signed	Rule M'Rolui											
CERTIFICATE OF SHOP/FIELD INSPECTION												
Vessel constructed by Carolina Integrated Solutions at 157 Derrick Road Spartanburg, South Carolina 29303 I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by OneCIS Insurance Company												
have inspected the component described in this Manufacturer's Data Report on I-21-/(
Date 2-17-16 Signed Commissions Commissions	NB-14016A [National Board (incl. endorsements)]											

(04/14)