National Board Number 2
Mfg. Representative
Authorized Inspector

Date 4-21-16 Date 4-21-16

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS

As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1 $\sqrt{2}$

							_																
1.	Manufact	ured	and c	ertif	ied by	STEELT	EK, IN	C. 414	1 SOL	JTH JAC	CKSON	N TULSA ()KL	AHOM	A 74	107 USA							
2	(Name and address of Manufacturer) Manufactured for KP ENGINEERING; 5555 Old Jackson Hwy; Tyler TX 75703																						
۷.	Mandiaci	uica	101	101	LIVOI	NEEKINO	, 5555	Old Gad	NOOT	100 9		e and addre	ss of	Purcha	ser)								
3.	Location	of ins	stallati	on	Unl	known						(Name	and :	address	;)					•			
4.	//									at Exchanger 15S-3222													
	NONE	(H	lorizo	ontal, ve	ertical, or sph	•	. ^	(1	ank, sepe	erator, j								Manufacturer's serial number) 2016					
	NONE		(CRN	1)	-		S-3222	(Drawing	g numb	er)			ation	al Board	d num	ber)		0	(Yea	r built)			
5.	ASME Co	ode,	Sectio	n VI	II, Div.	1 <u>2013 E</u>						NONE					<u>NC</u>	ONE					
lton	nc 6 11 in	al to	ho co	mnle	atad fa	Editior) r single wai				pplicable	` '*			de Case		,	amher (e per UG-1			
					course					_ (b) ()' - 5-5/				<i>y</i> 11101.	—	01 403301	J.		
	Cour	rse(s)			Material		Thickn	ess		Long. Joint (Cat. A)				Circum. Joint (C				& C)	Heat Treatment			
No						/Grade or T			Corr.	Туре	Full,	Spot, Non	е	e Eff. Ty				one	Eff.	Temp.	Time		
1	26"IE		8'-0' 4'-5.62			SA-516-70 SA-516-70		.500" .125"		1 1	.,	Spot Spot		.85 .85	1		Spot		.85 .85	NONE	NONE		
-	20 IL	<u></u>	4 -5.62			- -	+ -	.500" .125"		-		-			-		Spot -		-	-	-		
									E	Body Fla	nges o	on Shells											
	T			Τ						<u> </u>	ľ					ting							
NI.	T			lange Thk Min I		h Thi	Material		Llow Attach		Location	Num & Si			O Rolling Mar			sher	er thk) Washer Mater				
No 1	. Type RING	1D 26"	_		3.1875			SA105N		WELD		SH.	_	(24) 1"		SA-193-B7		NONE		NONE			
-	-	-		I	-	-		-		-		-				-				-			
-			+	-			-		-		-		-						-				
_		I		1			I		1			L								<u> </u>			
7.	Heads: (a)			70 ; NO		arade or	type)(H.	T tim	e and ten	np.)	(b)	<u>NO</u>		erial s	pec. numb	er. grade	or type	e)(H.T 1	ime and te	mp.)		
(Material spec. number, grade or type)(H.T time Location (Top, Thickness Radius Elliptical										Conic	· ·								ategory A				
	Bottom, Ends)		' 	Min. Corr.				nuckle Rat				Radius		Diameter				_		, Spot, No			
(a)			.437		.125"	NONE	NONE	IONE 2:1		NONE -		NONE		NOI		Х	Х			Seamless			
(b)			-		-				-	-		-				-	-		<u> </u>	-			
-							1		E	Body Fla	nges c	n Heads					Pol	ting					
														Т				sher	I				
	Location Ty		ype ID		OD I	Flange Thk	Min H	ub Thk	М	Material		Attached	Num & S		ize	Bolting Material (Washer Material			
(a) (b)	-	-		-	-	-		-			-	-	-		\dashv	-		-		-			
8.	Type of ja	acket	. <u>N</u>	ONE								Jacke	et clo	osure	NO	ONE (De	scribe as	s onee	and weld	i, bar, etc.)			
	If bar, giv	ve dii	mensi	ากร	NO	NF										(= .		-			or sketch.		
a	MAWP		ı PSI		15 PSI	-	ax. tem	nn 3'	25 F.	30	0 F.	Min o	desid	an met	al tei	mp -20	———) F.		•	101 PSI			
Ο.			nternal)		(Extern		u/ 1011		(Interna		External			9		··r· <u></u>					·		
0.	Impact te	st	NO;	IMP	ACT E	XEMPT PE	R UG-	20(f) Al	ND BC	DLTING	PER L	JCS-66(e)			_ a	test tem	perature	e of	NONE				
						[Indicate ye	s or no	and the d	compor	nent(s) im	pact tes	sted]											
1.	Hydro., pı	neu.,	or co	mb.	test p	ressure _	597 PS	<u> </u>			– Pr	oof test	NO										
tem	s 12 and	13 to	be co	mpi	leted fo	or tube sect	ions.																
2.	Tubeshee	-	SA-51			al spec no 11	25.87	75" leter (sub	niect to	nrese \1	2.750	" ominal thick	ness		250"	(Corr. allo	w)		lted tachmen	it (welded o	or holted\}		
			NONE		(materia	al spec. no.)]	וטומוזו	ierei (sut	JECT 10	press./J	(14)	ommat tillek	11699	"		toon. allo	vv.)	(A)	aciiiieii	ii (welueu (o, boneu)		
								(Dian	neter)		(No	ominal thick	(Corr. allow.)				(Attachment)						
3.	Tubes S	SA-2	14			1					.109"N	100		12	20			U-	U-TUBE				
(material spec. no., grad					o., grade	e or type)		(O. D	.)		(No	minal thickn	ess)						[Type (straight or U)]				

FORM U-1 (Cont'd)

tems 14-18 incl. to be completed for inner chambers of iacketed vessels or channels of heat exchangers

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items	3 14-18 11	nci. to	pe cor	npietea	tor II	nner cna	amber	s or ja	скетеа	vesseis c	or cna	anneis	or ne	at excnai	igers	i.				(1 1/	/
14. \$	Shell:	(a) No	o. of co	urse(s)	1					(b) (Overa	all lengt	:h	1' - 0-3/	4"							
Course(s) Material							Thic	kness		Long. Joint (Cat. /				T	Circum. Jo	Circum, Joint (Cat. A, B & C				C) Heat Treatment		
No.	No. Diameter Length		Spec./Grade or Type				Nom.	Corr.			, Spot,	<u> </u>		Ty				Eff.	Temp.	Tim	ie	
1	26"10	_	1'-0.750" SA-516-70			500"	.125"	1		Spot		.85	1 1		Spot		.85	1175F.	1-H	R		
-					_		-	-	-		-			1 -		-		-	-	-		
			-						- 1	-					-					-		
										Body Fla	nges	on She	ells									
							Bolting									ng						
										l						1		Wast	ner			
No.	Туре	ID	OD	Flange	Thk	Min Hu	b Thk	Ma	terial	How Att	d Loca	ition	Num &		Bolting N	laterial (OD, ID	, thk)	Washer	Mate	rial	
1	RING	26"	27.3"	3.187				SA105N		WELD	DED	CH	┨.	(24)	1"	SA-193-B7		NON		NC	NE	
1				2.937	2.937" .500"			SA105N		WELD	DED	CH	1. │	(24)	(24) 1"		SA-193-B7		1E		NE	
-				-				-		-				-	-		-			-		
-			1 - 1	•					-	_				-				-			-	
15. H	Heads: (a)		5-70 N ;								((b)	NONE								
			/\ (N	Naterial s	pec.	number,	grade d	r type)	(H.T ti	me and ter	np.)			(Ma	terial	spec. numb	er, grade o	or type)(H.T 1	ime and te	emp.)	
l	ocation	(Тор,	Thi	ckness		Radius		Ellipt		Conic	- 1			ical F	lat	1	Pressure		_	tegory A		
	Bottom, I		Min.	Corr	. (Crown	Knuck		Ratio	Apex Ar	ngle		dius		nete		Concave	э Туре			_	Ξff.
	RT. CH.	CVR.	2.421	" .125	" N	NONE	NON	E 1	NONE	NON	E	NC	ONE	27.1	875'	-FLATFLAT		ļ		Seamless	;	-
(b)						- 1			-	-			-				-	-		•		-
										Body Fla	nges	on Hea	ads									
			T														Bolti	ng				
.					OD Flange Thk Min					4-1				N		Dalkia a M		Wash		Machar Mataria		
\vdash	ocation.	Тур	e ID	OD	Flar	ige ink	IVIIN F	lub Ir	ארן וא	/laterial	Ho	w Attac	nea	Num &	size	Bolting Material (OD, 1D	, tnk)	vvasiici iviatella		паі
(a) (b)		-	<u> </u>	-				-	_		+			_						_		_
16. N	1AWP	325 (Int	PSI ernal)	15 PS (Exte		_	ax. ter	np.	350 F. (Intern		0 F. Extern		/lin. d	lesign me	etal te	emp. <u>-2</u> 0	0 F.		at <u>3</u>	25 PSI		_
17. li	npact te	st <u>l</u>	NO ; IN	IPACT I									66(e)		_ ;	at test tem	perature	of <u>1</u>	NONE			_
					ĮIn	idicate ye	s or no	and th	ie compo	onent(s) im	pact to	estedj										
18. H	ydro., p	neu.,	or com	b. test i	pres	sure <u>!</u>	507 PS	<u> </u>			_ P	roof te	st .	NO								
19. N	lozzies,	insped	ction, a	nd safet	ty va	lve ope	nings:															
					·				Mat	erial	Nic	zzle Ti	hickn	000			Attach	mont [Potaile			
Purpose Diameter (Inlet, Outlet, Drain, etc.) No. or Size T					 Тур			Flange	_	Nom. Co				rcement iterial		ttachment Detail			cation . Oper			
(IIIIe	SH. IN / OUT			1/1						SA105		719" .125				ONE	E		1		V/A	
	CH. IN			1/1		-300#	FLO		A106B	SA105	$\overline{}$	132"	.12			ONE	E		1		V/A	
	SH. A			2		-300#	FLO	_	A106B	SA105		358"	.12			ONE	E		1		V/A	
	CH. A			2		- 300#	FLC	_	A106B	SA105		358"	.12			ONE	E	\top	1		V/A	
				-		-	-		-	-		-	_			-	-		-		-	
				-	-		-			-									-		-	
			1			-			-	-		-				-	-				-	
20. S	upports	Skirt	t NO		Lug	s NON	ΙE	Legs	NON a	NE C	thers	s 2) S	ADD	LES	Atta	ched SHI	ELL - WE	LDED				
	• •			or no)	Ů		mber)			mber)		-	(Desc					(Wher	re and	how)		
21 1	lanufaat	urorio	Dortiol	Data D	0000	to propo	vrlv ida	ntifico	l and ci	anad by	Comr	niccion	od In	enactors	have	e been fur	niched for	r the fo	llowin	a items o	√f	
										name, a					Have	o Deen Iun	lisited to	i ille lo	IIIOWIII	g items c	,,	
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	O NO. :		2-B-008	3	ITF	M NO.																_
								_		REHEAT.												

[National Board (incl. endorsements)]

FORM U-1 (Cont'd)

CERTIFICATE OF SHOP COMPLIANCE We certify that the statements 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 25,595 05/16/2018 Date 4-21-16 Name STEELTEK, INC (Manufacturer) CERTIFICATE OF SHOP INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by The Hartford Steam Boiler Inspection and Insurance Company of Conneticut of Hartford, Connecticut have inspected the pressure vessel described in this Manufacturer's Data Report on state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. By signing this certificate neither the Inspector nor his/her employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his/her employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inpsection. Date 4-21-26/6 Signed X Commissions NB 11448 A B (Authorized Inspector) CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE We certify that the statements in this report are correct and that the field assembly construction of all parts of this vessel conforms with the requirements of ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. U Certificate of Authorization Number _____ Expires __ Signed (Representative) CERTIFICATE OF FIELD ASSEMBLY INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by , have compared the statements in this Manufacturer's Data Report with the described pressure vessel , not included in the certificate of shop inspection, have been and state that parts referred to as data items inspected by me and to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with the ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. The described vessel was inspected and subjected to a hydrostatic test of ______ . By signing this certificate neither the Inspector nor his/her employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his/her employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Commissions ___

(Authorized Inspector)

Date Signed