JOB# 98135 FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

#93065

1 Manufactured and certifi	ed by	ndustrial A	lloy Fabi	ricators	, inc.	2345 Q	ulnce	St. F	orest	Grove	e, OR	7116	<u> </u>
2 Manufactured for	Swenso	n Process I	Equip. in	•	0 Lat	hrop Av		rvey	, 1L 60	426-5	198		
3 Location of Installation	Unk	nown	(rie	illic allo du	ii caa oi b	di di ladoli j							
			• •	(name and	address)							•
4 Type Horizontal (horiz., vert., or s)		Heat Exchang nk, separator, jkt ve			8135 l'e serial	No.) (CR		8135 Drawing	j No.) - ·		2149 ati Bd. No		998 ar built)
5 ASME Code, Section VIII	l, Dly. 1	1995 EDITION and A	ON, 1996 A		A	NA Cod	e Case N	o		VA Special S	Service pe	7 DG-72	Ō(d)
Items 6-11 frict to be comple	eted for singl	le wall vessels, jac	kets of jacket	ed vessels,	shell of t	eat exchang	jers, or ch	amber	of multi-ch	amber v	essois.		
6 Shell (a)No of course(s	s):	3			(b)Overs	ll longth (ft 6	in.):	. 19	9' 11.625	şıı			
Course(s)	··· ···	Material	Thickin	088		ong Joint (Cat A)	Circun	n, Joint (Ci	at. A. B 8	roi T''H	eal Trea	ilment
No Drameter in Leng	th (ft & in.)	Spec /Grade or T	ype Nom.	Corr.		ii,Spot,None			Full,Spot,1			np. T	ime
2 58" O.D. 8'		SA516-70	.50"	.0625"		Spot	85%	1 . 1	Spot			Α	NA
1 68" O.D. 3"	11.625"	SA516-70	.50"	.0625"	. 1	Spot	85%	1.	Spot		85% N	IA	NA
7 Heads (a) NA		1	i	l i	ı	(b)	NA	1 1		l	. 1.	1.	- ;
	Matti Spec. N	lo., Grade or Type	& emiT-T.H(Temp				al'i Spe	c. No., Gra	ide or Ty			emp
Location (Top Thick		Radius	Elliptical	Conical	Hen	t		ie to Pr		¥.::	Category Full Sp		Tess !
• • •	Corr. Cr	own Knuckle	Ratio	Apex Angl	o Rad	us Diam	eter Co	KIVOX	Concave	Type	Full Sp	กเน็กแล	E11.
(a) NA				+			.				+ -		i i
(b) NA i	l l	.1		l	ł		l	[i l		1 .		1 -
If removable, bolts used (des	scribe other f	aatening)	NA			·	iu énna s	do Gra	ide, Size, I	347V '			
8 Type of jacket	NA					ma) Jacket closu	•		108, 3128, 1 1 A	10.)			
o Type of Jacket	, , , , , , , , , , , , , , , , , , ,					Jacket Closu	ii Ç	."	(Describe	as ogee	& weld, b	ar, elc.)	
If bar, give dimensions	NA										botted, de		
9 MAWP 166	-15	pel at m		500	300		F Min. de	m ngiae	etal temp.	-20 de	eg Fat	66/-15	5 psi
(internal)	(extern	•		(internal)	(exte	rnal)							
10 Impact test Exem	pt per uc	S-66 & UHA-		dianta vian e	r no and	the compon	ont/e\ im	nant top	todi				
11 Hydro , Pneu , or comb.	test week H	lvdro 🙉	255	Proof test		NA	rain(s) mi	pact tea	iteuj				
Trans, mod, of come.	tost proso, i	1,410.6		1 (00) (03)		1**2	• • •					• •	- •
Items 12 and 13 to be compl	leted for tube	sections.											
	0-316L			57"			.50"		.0625"	·= ==	Weld		
	ary (Mat'l Sp		Dia., in	. (subject to		Nor	n. thk., in		orr. Allow.	, in. Atta		welded c	or bolted)
NA Floating (Mat'l Spec	No V	NA Dia., ii	n	NA N	om. thk.,	in		NA	Allow., in.		NA Attac	hment	
	1249-316L		' 1.5'			580''		00,11.	674			ight	
	pec. No., Gra		O.D			hk., in. or g	auge	٠	Numb	er	Type (S	Straight	or U)
llows 14 10 seek to be some	lated for ion	or abombana af igi	المحمدة اسمؤمناه		la af han	avabanaara							
Items 14-18 incl to be comp		er chambers of jac	cketed vessel	s or channe		-			6' 5	F1)			
14 Shell (a)No of course(s	s): 	-		•	(b)Overa	ili length (ft	& in.):) 			_ · · ·-
Course(s)		Material	Thick	1068		Long Joint (Cat A)	Circu	m, Joint (C	at. A, B	& C) I	leat Tre	atment
	in (ft & in.)	Spec./Grade or	· · · · · · · · · · · · · · · · · · ·	Corr.		II,Spot,None			Full,Spot,I				Time
	10"	SA240-316				Spot		6 1	Spot			NA I	NA
	6" 6.5"	SA240-316				Spot		6 1 / 4	Spot			AV AV	NA NA
2 58" U.U. 15 Heads (a)		SA240-316 0-316L	L .25'	.0625		Spot		6 1 50240	Spot 0-316L		85% I	YM	1424
		to., Grade or Type	H.TTime &	Temp	•	(b)			c. No., Gra	ade or Ty	/pe)H.T1	ime & T	emp
cocation (Top Thick	ness	Radius	Elliptical	Conical		+	i Sk	de to Pr	essure		Category	/ A	
· · . · · · · · · · · · · · · · · ·		rown Knuckle	Ratio	Apex Ang					Concave	Туре		ot,None	
		100% 4%	NA	NA	. N			YES	YES	NA		one	NA NA
(b) End .25"	.0625	100% 4%	<u>NA</u>	NA	N	A NA	<u> </u>	YES	YES	NA.	N	ne	NA J

If removable, bolts used (describe other (astening)

SA325, 5/8" Qty. 112. SA194-2H, 5/8", Qty. 112 (Mat'l Spec. No., Grade, Size, No.)

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F١	OR	М	U-1	lít	ac	k)	

Nat'l Bd. #

16. MAWP	52	emal) (e	-15 p				eg F Mir	n. dasign metal te	mp. <u>-20</u> de	g Fat <u>52</u>	/-15 psi.
17. Impact test	•	, ,	r UCS-66 &	UHA-51		xternal)					
18. Hydro., Pne			ess. 1	02	Proof test	nd the comp) impact (ested)		*********	
Purpose (inlet,		Diameter	Flange	Material	· ··· ·· ·· ·	Nozzle Tr	ik.	Reinf.	How Atta	ched	Location
Outlet, Drain,)	No.	or Size	Туре	Nozzie	Flange	Nom.	Corr.	Material	Nozzie	Flange	(insp. Open.)
In/Out	1	14" O.D.	LJ	SA516-70	SA516-70	.375"		SA516-70	Weld	Loose	NA
In/Out	1	16" O.D.	LJ	SA516-70	SA516-70	.50"		SA516-70	Weld	Loose	NA.
In/Out	2	28" O.D.	LJ	SA240-316L	SA516-70	3125	.0625	SA240-316L	Weld	Loose	NA
t	-										
	1					-	ļ .		, :		
•	-		····································			-		+ -			
20 Supporte. S	klit L	No (Yee or No	Lugs		NA (No.)	ı. Others	Sad	l dies 75%-ubas	Attached		, Weld
21 Manufacture	ers P			entified and signed t		inspectors t	ava bec	(Describe) in furnished for ti	he fallowina t	(vvnere) lems of the	s and How) recort:
				and identifying nur			,				
						• •				•• -	
22 Remarks	!	Pressure n	elief devices	to be provided	by others pe	r UG-125					
			openings pe							-	
			congrammaticals.		•	•					•
		a distribute tigan		• •		• • •	* *		• .		
			•		-	•	-			•	
		** **	CERTI	FICATE OF SHO	P COMPLIANC	· · E		•			
We certify tha	it the	statements m		t are correct and the			l. constr	uction, and work	manship of t	his vessel c	onform to
the ASME Co	de fo	r Pressure Ve	ssels, Section V	III, Division 1,		• • • • • • • • • • • • • • • • • • • •	.,				
		Nuthorization		2,619	Expir	es	Apr	il 30	, 19	99	
Date 것-	2 E.	48	Name ind	lustrial Alloy Fe	abricators, Inc) .	Signad	A Milchel	I. Su	Izme	
				(Manufecture				(Repr	esentative)		
1.48		4 1 19 · · · 11		FICATE OF SHO							
and employed				sued by The National ODES DIVISIO		and Pressur	e Vesse	•	the State or I		OR respected
				er's Data Report on				state that, to the			
Manufacturer	has d	constructed thi	is pressure vess	el in accordance wi	th ASME Code, S	ection VIII, E	nolatviC	1. By signing thi	s certificate r	either the l	nspector
				or implied, concern							more,
			loyer shall be ila	ble in any manner f	or any personal in	nth or brobe	erty dam	age or a loss of	any kind arisi	ng from or	
connected wit	n una	пвресноп.									
Date	٠,	δ Signe	v/11/2 .	Tool and the		Commissi	ons 4	1311488	~ "x" .	or 11	488
			/ 	thorized Inspector				ard incl. endor			
	•			FICATE OF FIEL	4						
		statements on ction VIII, Divi	this report are	correct and that the	field assembly co	nstruction of	all parts	s of this vessel c	onforms with	the require	ments
U Certificate	of A	luthorization	NoN	<u> A</u>	Expir	os			, 19		
Date			Name NA	<u></u>	.		Signed	1			
				(Assembler)		· ······		(Repre	esentative)		
				FICATE OF FIEL							
		holding a valk	d commission is	sued by The Nationa	al Board of Boller	and Pressur	e Vesse		the State or I	Province of	
and employed		e statements !	n this Manufact	Itala Data Banadii	th the dearth as	7,000	nal	of	-(Jala 9	
neve compar	eu (I)	c araccilkulig ()		ire's Data Report wi				•			nect of
my knowledge	and	belief, the Ma	nufacturer has o	not included in the constructed and ass	embled this press	ure vessel ir	accord	ance with ASME	Code, Section	n VIII, Divis	ilon 1.
his employer	make	s any warranty	y, expressed or i	ed to a hydrostatic te mplied, concerning	the pressure vess	el described	in this h	oning this certifi Janufacturer's D	ata Report. I	urthermore	,
		ctor nor his e with this inspe		be liable in any m	nanner for anype	rsonal inju	ry or pr	operty damage	or a loss o	f any kind	arising
Date		Signe				Commissio	ons				
-			(Au	thorized Inspector	r)			ard incl. endor	sement, Sta	ite, Provinc	ce and No.)