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

42412(20612)-4953 Fltr

											·										
1. N	anufactured and	d certified by	Little	eford Day,	Inc. 74	51 Em	ipire d	lrive	, PO Bo										-		
2. N	lanufactured for	B.F. (Goodric	ch, P.O. B	ox 4125	6, Bred	cksvill	le, O	H 4414	4 <u>î</u>			of Manufactu								
3. L	ocation of install	ation <u>B</u>	F. Go	odrich, 99	21 Brec	ksville	e Road	i, Br	ecksvill	•	4414	1				^-\		,			
	37.	A* 1		T141	x 7 1				122	20	(Nar	ne an	nd address)	1000E	0/4			1502		1000	
4. Type: Vertical Jacketed Vessel (Horiz, vert., or sphere) (Tank, separator, jkt. vessel, heat exh., e									133 (Mfg's se					1000858/A (Drawing No.)			1583 (Nat'l, Bd. No.)			1997 (Year built)	
	,		• •	•		(mg o condition)				(5,44)		(
	SME Code, Sec s 6 - 11 incl. to t	•		Editio	95,1995 n and Adde s, jackets o	enda (da		els, sh	nell of hea	t exchan	Code gers, or o			hambei	vesse		Servic	e per U	G-120(d)		
6, 5	hell (a) No. of	course(s):		1					(b) Over	all length	(ft & in.)	: .	3' 3	-5/16'	'			<u>.</u>			
	Cou	rse(s)			Material			Thic	ckness	1	ong Joir	t (Ca	at A)	Circ	um, Jo	int (Cat. A	, 8 &	C)	Heat Trea	tment	
No	Diameter, in. Length (ft. & in.)			Spec./Grade or Type				Nom.	Corr.			I, Spot, None Eff.		Туре	e Fuil, Spot, No		ne Eff. Te		emp.	mp. Time	
1	17-1/2"ID	3' 3-5/	16"	SA	240-316	,	3/	/16"	Nil	2	None		65%		None		Τ.		NA.	NA	
7. F	leads: (a) _		,	None						(b)			No								
		(Ma	ati Spec.	No., Grade o					()		I Spec. No., Grade or Type) H.1										
	Location (Top,	Thickness		Radius		Elliptical		Conical		•	herical	1			Pressure					gory A	
<u> </u>	Bottom, Ends)	Min.	Corr.	Crown	Knuckle	Rati	io A	Apex.	Angle	Ra	dius	Diar	meter Co	nvex	Co	ncave]	Гуре	Full, Sp	ot, None	Eff.	
(a)						ļ	_		-			-									
(p)			-									L				i					
	if bar, give dime AAWP	nsions 150 nternal)	(exter		at max. ten		400 (internal)	_	(extern		°F	Min.	design metal	temp.		32	If bo	•	150	sketch psi.	
10.	Impact test	No per (Л НА 51	l (d) & (e)																	
	•					(În	dicate y	es or	no and the	e compo	nent(s) ir	npact	t tested)								
	Hydro., pneu., ons 12 and 13 to		•		<u>SI</u>		Proof to	est													
12.	Tubesheet:																				
		Stationary (A	//at'l Spec	c. No)	Dia., ir	n. (subje 	ct to pre	ess.)		No 	m. thk., i	n.	Ce	orr. Allo	w., in.		Attach	ment (velded or	bolted)	
13.`	Floating (Mat' Tubes:	l Spec. No.)		Dia.,	in.		No	m. thi	k., in.			Corr.	. Allow., in.				Attach	nment			
		Spec. No., G				O.D., in.					in, or ga	uge		Numi	er			Type (S	itraight or	U)	
	ns 14 - 18 incl. t Shell (a) No. of		ted for in	ner chambers	of jacketed	d vessel	s or cha	nnels			rs. n (ft & in.):	3'	8-1/4'	1						
	Car	urea/e\	Т		Material			1	Thickne		1 1	ODG	Joint (Cat. A)		Circu	m, Joint (Cat. A	. B & C	Heat Tr	eatment	
No	Diameter, in.					Nom.					, Spot, None E			Full, Spot, None				Time			
1			<u></u>	SA240-316			1/4"		Nil			None	70%	+	None			NA	NA		
1	15-1/2"ID	3' 8-1/4"		OI LUTO-DIO				1 1/7		11/1		 	11016	7070		1 10			1		
-				,								t^{-}		 	 						
15.	Heads: (a)		A.240-3					L		(p)			None			N 11 447	Ti	o Tom			
(Mat'l Spec. No., Grade or Type) Location (Top. Thickness Radius						TTime			Conica	ـ برا				No., Grade or Type) H.T Side to Pressure			Category A				
	Location (Top, Bottom, Ends)	<u> </u>	3			Elliptic Ratio	- {	Apex An		Radius		Flat Diameter			Concave	Type	Type Full, Spot,				
(2)					, (pox / 9)	3.7	· 		15-1/2"	Convex			175		None						
(a)	Тор	.625	Nil										13-1/4				<u> </u>	+			

<u> </u>													
10. HIAWP	50			max. temp. 400	400	. °F 1	Vlín. design	metal temp.	32°Fat	_50) psi.		
(internal) (internal) (internal) (external) 17. Impact test No per UHA 51 (d) & (e)													
				(Indicate ye	s or no and the comp	юnent(s) іп	pact tested	d)					
18. Hydro., pneu., o 19. Nozzles, inspec	or cor ction,	nb. test pre and safety	valve openings;	Proof te	st								
Purpose (inlet,		Diameter	Flange	Mate	erial	Mazzla	Thiskness	Deinferson	How AH		T		
Outlet, Drain, etc.)	No		Type	Nozzle Nozzle	Flange	+	Thickness	Reinforcement	How Att		Location (Inch Open)		
<u> </u>	,					Nom.	Corr.	Material	<u> </u>	Flange	(Insp.Open)		
Vapor Outlet	1	2"	CL #150 Flg.	SA312-316	SA182-316	.154"	Nil	Inherent	UW16.1(d)	2-4(9)	Drum		
Nitrogen Inlet		3/4"	W.E.	SA-312-316		.113"	Nil	Inherent	UW16.1(e)		Drum		
Jacket	4	1"	CL #150 Flg.	SA312-316	SA182-316	.133"	Nil	Inherent	UW16.1 (c)	2-4(9)	Jacket		
Inlets/Outlets	<u> </u>										-		
Top and	2	22"OD	F.F. Flg.		SA240-316	1-3/8"	Nil	, 4000		2-4(9)	Drum		
Bottom Flange													
			Washington and the second of t			<u></u>			<u> </u>				
20, Supports: Skirt	: <u> </u>	No	Lugs	Legs	Othe	rs	Bottom 1	Flange A	ttached We	lded to In	mer Drum		
		(Yes or N		(No.)	(No.)		(Descri			(Where and	d How)		
21. Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:													
(List the name of part, item number, mfg's. name and identifying number)													
22. Remarks: Exe	empi	t from Ir	npact Testing per	r UHA 51 (d) & (e)	Jacket is for n	on-corro	sive serv	ice only. Safe	ty relief by 1	ISET			
22. Remarks: Exempt from Impact Testing per UHA 51 (d) & (e). Jacket is for non-corrosive service only. Safety relief by user.													
		***************************************				-							
		 	***************************************	·····									
				CERT	IFICATE OF SH	OP COM	IPLIANC	E					
We certify that	the s	statemen	ts made in this repo	ort are correct and that	t all details of desi	gn, mater	ial, constr	ruction, and work	manship of thi	s vessel co	onform to		
			Vessels, Section						//				
U Certificate of	Aut	horization	No	1,193		Expires	J:	an. 30 /	/1 19 9)8			
	1/							- /	// $/$	1,1,	/		
Date _ 7/	1/9	77	Name Littleford	d Day, Inc.				Signed L	1. H. 11	110+			
7	7		.,		facturer)			1300	(Represer	tative)			
					ICATÉ OF SHO	P INSPI	ECTION			<i>/</i>			
I, the undersigne	d, hol	lding aval	id commission issue	ed by The NationalBoa	rdof Boiler and Pr	essure Ve	ssellnspe	ectors and the Stat	e or Province o	f Kentu	icky		
and employed by		Con	nmercial Union I	nsurance Co.				of Boston, N	1A	have in	spected		
the pressure ves	sel c	lescribed	in this Manufacture	er's Data Report on	フー/ ,19	97.	and state	that, to the best	of my knowle	edge and b	elief, the		
Manufacturer ha	s coi	nstructed	this pressure vesse	el in accordance with	ASME Code, Sect	ion VIII, D	ivision 1.	By signing this co	ertificate neith	er the Inspe	ector nor his		
				ied, concerning the pro									
				any personal injury o									
			0	12 . 1	Med		•	J					
Date 7-/-9	77	Sia	ned A	DICHUMU		Commissio	ons /	10/18/1 /	W 875				
				Authorized Inspector)				at'l Board incl. en	torsement St	ate Provin	ce and No		
					CICL D'A COCTA	31 V 001			30,00,00,00,00		00 and 110.)		
Macartifu that th	a ata	tomonto.		CERTIFICATE OF							-4.0145		
			on this report are co	rrect and that the field	assembly constitu	iction of all	i parts of t	nis vessei contor	mswith the rec	luirements	OI ASME		
Code, Section V	•	•	1_					•					
U Certificate of A	vutno	orization r	40.		Expires				_ , 19				
Date		Nam	e			Sigr	red						
				(Assembler)				(Repres	entative)				
			С	ERTIFICATE OF FI	ELD ASSEMBL	Y INSPE	CTION						
the undersigne	d he	nidina a v	alid commission is	sued by The National	Board of Boiler on	d Draceus	n Manaal	Inconstore and th	a State or Or	wince of			
and employed by		ording a v	and commission is:	sucu by The Hationar	board of boster at	u riessui		inspectors and tr	ie State of Pit	Willion of _			
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mave compared	ine s	tatement		rer's Data Report with							_		
				cluded in the certificat							1		
i .				assembled this press							1		
•		•	o a hydrostatic test		By signing this ce								
expressed or imp	olied	, concern	ing the pressure ve	essel described in this	Manufacturer's Da	ata Repor	t. Further	more, neither the	Inspector nor	his employ	er shall		
be liable in any r	nann	er for any	personal injury or	property damage or a	loss of any kind a	arising from	n or conn	ected with this in	spection.		destroy		
					•	_					-		
Date		Signed		اد جاد مسمسا المجازين المعاطق	Commis		NI_III D	Military and	ioni Ciale De	oulogo and	No.		
			(At	uth and Inspector)			Nat'i Boa	cl. endorsen	ient, State, Pr	ovince and	140.)		