FORM A-1 MANUFACTURER'S DATA REPORT Pag FOR PRESSURE VESSELS As Required by the Provisions of the ASME Code Rules, Section VIII, Division 2

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1.	Manufactured and	lanufactured and certified by											
2.	(Name and address of manufacturer)												
Ζ.	Manufactured for	Manufactured for											
3.	Location of installation(Name and address)												
4.	Туре	or vert. tank											
_	Horiz.				serial no.		CRN		ving no.				
5.	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 ASME Code, Section VIII, Division 2.												
	Yea	ar				Class					Code case no.		
lter	ms 6 to 11 incl. to be	completed	l for single w	all vessels, j	ackets of	jacketed v	essels, or s	shells of	heat excha	angers			
6.	Shell Material (s	pec. no., grad	le) N	Nom. thk.		Corr. allow.		Dia	meter		Length (overall)		
7.	SeamsLongitudinal								Nondestructive examination				
				Heat treatment									
8.	Girth	Nondestructive examination (b) Matl.					No. of courses						
о.	Heads: (a) Matl.			Spec. no., grade					Spec. no., grade				
	Location (Top, Bottom, End)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Ap Angle		nispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)		
(a) (b)													
(,	1		<u> </u>					I			1		
9.	lf removable, bolts	used (desc	ribe other fas	stenings):			Matl. sp	bec. no., g	rade, size,	number			
10.	Jacket closure				If bar	r, give dim	ensions			If bolted,	describe or sketch.		
	Jacket closure If bor, give dimensions If bolted, describe or sketch.												
11.	MAWP at max. temp Min. design metal temp at												
	Impact test At test temperature of												
	Hydro., pneu., or o	comb test p	ressure										
	ms 12 and 13 to be c	ompleted f	or tube section	ons									
12.	Tubesheets Stationary matl. (spec. no., E grade)			Diam. (subject to pressure) Nom. thk.			k.	Corr. allow. Attach. (wld		ttach. (wld., bolted)			
	Float	(Diam.) Nom. thk.				κ.	Corr. allow. Attach. (wld		ttach. (wld., bolted)				
13.	Tubes	. (spec. no., g		0.0	<u> </u>		Nom. th		N	ımber T	ype (straight or "U")		
lter	ms 14 to 18 incl. to b					essels, or				iniber i	ype (straight of O )		
14.	Shell	spec. no., gra		Nom. thk.		Corr. allow.		Diam	neter	- <u> </u>	ength (overall)		
15.	Seams	spee. no., gra						Dian		_	ingth (oronall)		
	Longitudinal         Heat treatment         Nondestructive examination										examination		
	Girth	Heat treat	tment	Nondestructive examination No. of courses						rses			
16.	Heads: (a) Matl (b) Matl Spec. no., grade Spec. no., grade												
	Location	ide Crown Radius Knuckle Elliptical Conical /			ical Anov	Spec. no., grade Apex Hemispherical Flat Diameter Side to Pressure							
	(Top, Bottom, End)	Minimum Thickness	Corrosion Allowance	Crown Naulu	Radiu			Angle	Radius		(Convex or Concave		
(a) (b)					_								
L		used (desc	ribe other fas	teninas):	1	1	1		I	I	1		
	If removable, bolts used (describe other fastenings):Matl. spec. no., grade, size, number												
10.	(Internal) (External)			(Internal) (External)									
	Impact test							At test t	emperatu	re of			
	Hydro., pneu., or comb test pressure												

Manufactured by

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Manı	ufacture	r's Serial N	lo <u>.</u>			CR	IN			National Boar	d No		
					vessels whe relief device								
	Purp	-	1		m. or Size	Туре	-	erial No	m. Thk.	Reinforceme	nt Material	How Attached	Location
iniei	, Outlet	, Drain, et	0.7										
	ody Flar Flanges	nges s on Shell	s										
												Bolting Washer	
No.	Туре	ID	OD	Flange Thl	c Min Hub Thk	Mate	erial	How Attached	Location	Num & Size	Bolting Materia	al (OD, ID, thk)	Washer Materia
ody	Flange	s on Head	S		<u> </u>			1				Bolting	
No.	Туре	ID	OD	Flange Thl	Min Hub Thk	Mate	erial	How Attached	Location	Num & Size	Bolting Materia	Washer	Washer Material
01 0	Support	Skirt		Luc	0	Loge		Othe	or.		Attache	d Where and I	
22. \$	Service: narks:	Fatigue a	analys	is require	edYes or r	and זס	D	escribe conter	nts or serv	ice			
leo	r's Dosi	n Specif	ication	on file a	.+			FICATION O					
Man	ufactur	er's Desig	ın Rep	ort on fil	e at							Beg No	
User's Design Specification certified by Manufacturer's Design Report certified by				PE State				Reg. No					
vess	sel confe	orm to the	e ASN	IE Code f	or Pressure	e correc Vessels	t and tha , Section	n VIII, Divisio	of desig on 2.	n, material, c		and workmansh	
Date	9			U	o. name			res Manufacturer		Signed _		Representat	ive
Vess I, the	sel mad e under	e by signed, h	olding	ı a valid c	ommission	CEF	RTIFICAT at by the N	<b>E OF SHOP</b> ational Boa	INSPEC	<b>FION</b> ler and Press	ure Vessel Ir	nspectors and em	ployed by
have and Sect cond liabl	e inspec state th tion VIII, cerning le in any	ted the p at, to the Division the press manner	ressur best o 2. By ure ve for ar	re vessel f my kno v signing essel deso ny persor	described in wledge and this certific ribed in this nal injury o	n this Ma belief, tl cate neitl s Manufa r proper	anufactu he Manu her the acturer's ty dama	rer's Data R Ifacturer has Inspector no ' Data Repor ge or a loss	eport on constructor for his en t. Furthe of any ki	of cted this press pployer make rmore, neithe nd arising fro	sure vessel i s any warra r the Inspec	n accordance wit inty, expressed o tor nor his emplo cted with this ins	, h ASME Code, or implied, over shall be
Jait	·			oigneu_	Authorized	d Inspecto	r	Commissio		National Board	Authorized In	spector Commissior	number

## FORM A-1

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Manufactured by							
Manufacturer's Serial No	CRN	National Board No					
CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE							
We certify that the field assembly construction of all parts of this vessel conforms with the requirements of Section VIII, Division 2							

of the ASME BO	ILER AND PRESSURE VESSEL CODE		
"U2" Certificate	of Authorization No.	expires	
Date	Co. name	S	igned
	Asser	nbler that certified and constructed field assemb	Dly Representative
	CERT	IFICATE OF FIELD ASSEMBLY INSPECTIO	DN
I, the undersigne	ed, holding a valid commission issue	d by the National Board of Boiler and Pr	essure Vessel Inspectors and employed by
			of
have compared data items	the statements in this Manufacturer's	s Data Report with the described pressure	e vessel and state that parts referred to as
	· · · ·	ave been inspected by me and that, to t ressure vessel in accordance with the AS	he best of my knowledge and belief, the ME Code, Section VIII, Division 2.
	· · · · · ·	a hydrostatic test of	
vessel described	d in this Manufacturer's Data Report		used or implied, concerning the pressure his employer shall be liable in any manner vith this inspection.
Date	Signed	Commissions	

Vate \_\_\_\_\_ Commissions \_\_\_\_\_ Authorized Inspector \_\_\_\_\_ National Board Authorized Inspector Commission number

(07/17)