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

1, Mar	nufactured and c	ertified by	, <u>R</u> i	NG PRO-	TECH INC	. 800	rue	Cabana	Sh	ierbrooke Q	C J1K	<i>3</i> C3							
2 140	nufactured for	SARI	F OFFSI	HORE EN	FRGY PRO	JECT 1	1100.	Moneor		Name and addre				Cal	oarv. A	lberts	T2P 3W3	;	
ľ								(1	Nam	e and address o			<u> </u>		<u></u>				
3. Loc	ation of installati	on S <u>ab</u>	le Offs	shore E	nergy Pr	oject,	, Sab	ole Isla		N.S. (Name and addr	000)								
4. Тур	e: Hori	zonta	1	Tai	nk.				,	8-9		24-	8 9	9800)47-2R4			19	99
5 ACI	(Horiz,, ve			(Tank, sep 1995 E		essel, he		ı., etc.)	(M	líg's serial No.)	(0	CRN)		(Dra	awing No.)	(Na 	rł. Bd. No.)	(Ye	ar built)
5. ASI	ME Code, Sectio	n VIII, DII ;	v. 1; <u> </u>	1990 C	Edition an			ie)		Coc	le Case	No.		-	Spe	cial Ser	vice per UG-	120(d)	•
										eat exchangers, o				namb	er vessels.		•		V
6. She	ll (a) No. of c	ourse(s):	41	<u>Z.</u>			 ·	(b) Overa	ıll ler	ngth (ft & in.):	i	19:	_8"			· · · · · ·			
Course(s)				Ma	Thickness				g Joint (Cat. A)			Circum, Joint (Cat. A, B					Treatment		
No.	Diameter, In.	Length ((ft & in.)	Spec./Gra SA-516-	ade or Type _7∩	Nom. 1.125	Corr.		Fu	III, Spot, None Full	Eff.	Typ 1			Spot, None	Eff.	Temp.	ļ	Time
1	1 144 I.D 9' 8"		1	SA-516-70		1.125				Full	1 1		l Full I Full		1				
					7. 1		L,	<u> </u>	L,		_·	l					.l	<u> </u>	
7. Hea	ıds: (a)			norma Grade o	l 1260 r Type) H.T.	- Time 8	& Temp	<u> </u>	_	(b)	(1)	/at'l S	pec. No	o., Gr	ade or Type) H.T	Time & Tem		
	Location (Top., Thickness Bottom, Ends) Min. Corr.			Radius Crown Knuckle		Elliptical Ratio		Conical Apex Angle		Hemispherical	Fi				Pressure	-	Category		Ā
			+							Radius	Diameter		Convex		Concave	Туре	Full, Spot, None		Eff.
(a) (b)	<u>ENDS</u>	1.107	062			2:1		<u> </u>			-		<u> </u>		concave	_1_	Full_		
L.`-	<u> </u>	.1	94 99.	2.14		•				L <u>-</u>	-l								
If remov	able, bolts used	describ	olher fa	stening)															
0 T											'l Spec. I			ize, l	No.)		,		
в. тур	e of jacket								_	Jacket closure				(Des	scribe as oge	ee & we	ld, bar, etc.)		
þa	ar, give dimensio		4.4								-						If bolted, des		or sketch.
9MA			11		psi at max.	temp.	14				F Min	ı. desi	gn met	al ten	np. <u>-1/</u>	' 	°Fat	<u> 250</u>	psi.
10. imp	(internal act test	•	exter) empt	,	JG-20 (F) a	inten) nd U	•	. •	xternal) (1)(1)(b)									
,			٠,							the component(s) impac	t teste	d)						
•	lro., proteck, XXXXX	•	_	•	psi		Proof to	est									 _		
	2 and 13 to be on esheet;	ompleted	for tube s	ections.															
12, 100		Stationary	(Mari Sp	ec. No.)	Dia.,	in. (subj	ect to p	oress.)		Nom. thk., i	n.	-	Cor	r, Alic	ow., in.	Atta	chment (wel	ded or	bolted)
	loating (Mat'l Sp	ec. No.)		Dia	a., in.			Nom. th	nk., i	n	Co	orr. All	ow., in.				Attachment		
13. Tub	-	pec. No	Grade or	Type		O.D., i	 in.			Nom. thk., in.	or gauge			Nun	nber		Type (Strain	ght or l	J)
items 1	4 - 18 incl, to be	complete	d for inne	r chambers	s of jacketed	vessels	or cha	nnels of h	eat e	exchangers.									
14, She	ll (a) No. of c	ourse(s):						(b) Overa	li len	ngth (ft & in.):									
[Course	(s)		Ma	terial	Thick	ness		Lon	g Joint (Cat. A)		(Circum,	, J oin	t (Cat. A, B	& C)	Heat	Treatm	ent
No.	Diameter, in.	Length ((ft & in.)	Spec./Gra	ade or Type	Nom.	Corr.	Туре	Fu	ill, Spot, None	Eff.	Тур	e F	ull, S	pot, None	Eff.	Temp.	T	ime
												-							
								 											
15. Hea	ds: (a)									(b)									
	Landing (Tan		<u> </u>		Time & Temp		p Conical		Hemispherical	(Mar'i Sp		pec. No., Grade or Type Side to Pressure				p egory A			
	Location (Top, Bottom, Ends)		Thickness Min. Corr.		dius Knuckle	Elliptical Ratio		Apex Angle		Radius	Diameter		Convex Concave			Туре	Full, Spot, None		Eif.
(a)		1		Crown															
7																			
/																			
II remov	able, bolts used	(describe	e other fa:	stening)						(Mat	l Spec. i	۷o., G	rade, S	ize, l	No.)				IB-26

16. MAWP		nei at	max, temp.			۰F	Min. design metal tem	ıp.	°F at				
(internal) (externa	•	, , , , , , , , , , , , , , , , , , ,	(internal)	(externa	<u> </u>							
17. Impact test								•					
			•	•	no and the co	mponent(s) ii	mpact tested)						
18. Hydro., pneu., or con 19. Nozzles, inspection,		enings;		Proof test									
Purpose (inlet,	Diamete		Ma	ıterial	Nozzle	Thickness	Reinforcement	How Attach	ned Location				
Outlet, Drain, etc.)	No. or Size	Туре	Nozzle	Flange	Nom.	Corr.	Material		lange (Insp. Oper				
MANWAY VENT	1 24" I.D	. W.NECK	SA-105		4.00"	.062"	SA-516-70	(W.16.1(H)	SHELL				
以ENT	1 6" I.D		SA-105		2.50"	.062"	INTEGRAL	W.16.1(Q)					
LEV. IND/PRES. VE			SA-105		.655"	.062"	INTEGRAL	W.16.1(C)					
LEV.CTRL/PURGE	3 2.9" I.I		SA-105 SA-105		1.24" 1.305"	.062"	INTEGRAL INTEGRAL	JW.16.1(Q) JW.16.1(Q)					
INL/TRANS/RELIE THERMO WELL		D. W.NECK D. W.NECK	SA-105	 	1.00"	.062"	INTEGRAL	JW.16.1(Q)					
LIQUID OUTLET		D. W.NECK	SA-105		3.25"	.062"	INTEGRAL	W.16.1(C)					
20. Supports: Skirt _	NO	Lugs		gs 2	Othe	0.44		Attached WEI	_DED_TO_SHELL				
	(Yes or No)	(N		(No	 D.)		(Describe)		(Where and How)				
21 Manufacturer's Parti	al Data Reports prop	erly identified a	nd signed by (Commissione	d Inspectors h	ave been fur	nished for the following	items of the report:					
(List the name of pa	rt, item number, mfgʻ	's. name and ide	entifying numb	•		4							
	A TYPE: TW						HD#4 AND W.	18451 HD	<u>#5</u>				
מסטו	<u>ACTURED BY:</u> PANE STORAG			D. SEE	<u> ATTACI</u>	HED							
ZZ. Nemarks.				matrio	3 CC N	4 T D 3	x 38.48 M O/A	1)					
		904 USWG	2" U/A !	metric	2.60 T	1.1.1/.	X 70.40 M U//	1)	·				
	MAWP 1724/-		55°C			JA 99-3	219						
	M.D.M.T27°					1.16 99-0							
			CEF	TIFICATE	OF SHOP C								
Date 02/19/	799 Name	KING PI		anufacturer)		<u> </u>	(/	(Represen	tative)				
					OF SHOP I			tal October	OUFRE				
		OMMISSION ISS	sued by The T	National Bo	ard of Boile	and Pressu	ure Vessei Inspector: ا ا ا ا ا	s and the State o V. DU QUEBEC	r Province of QUEBE have inspected				
and employed by				ort on /2=4	3-17- 1	9 99			wledge and belief, the				
Manufacturer has	constructed this pr	essure vessel	in accordance	e with ASMI	E Code, Sec	tion VIII, Div	ision 1. By signing thi	s certificate neithe	er the Inspector nor hi				
employer makes a	ny warranty, expres	ssed or implied	, concerning	the pressure	vessel desc	ribed in this f	Manufacturer's Data F	leport. Furthermor	e, neither the inspecto				
nor his employer s	hall be liable in an	y manner for a	any personal	injury or pro	perty damag	e or a loss o	of any kind arising fro	m or connected w	ith this inspection.				
D. F. 10	1606 0	/ /	2/1	/ /		Commiss	inna Augus	1. 9456					
Date / <u>2/~·/7</u>	<u>-/77</u> 7 Signed	<u> </u>	7/ 277666	rized Incom	etor)	Commiss	/Natl-Roard incl.	endorsement Ste	ate, Province and No.				
······.					LD ASSEM			ericordenicini, ote	No., I to Miles direction				
We certify that the	statements on this	report are cor						onforms with the I	requirements of ASMI				
•	We certify that the statements on this report are correct and that the field assembly construction of all parts of this vessel conforms with the requirements of ASME Code, Section VIII, Division 1,												
	uthorization No.				Expires								
Date	Name						Signed						
				Assembler)			·	(Represen	itative)				
					ELD ASSEN				- Dravings of				
		commission iss	sued by The	National Bo	ard of Boile	and Pressi		s and the State o	r Province of				
and employed by		this Manufac	turor's Data	Report wit	h the descr	ibed press	of ure vessel and state	that parts refer	red to as data item				
nave compared t	не зышенень П								best of my knowledge				
and belief, the Ma	nufacturer has con								. The described vesse				
was inspected an	d subjected to a h	ydrostatic test	of	psi. By	signing this	certificate	neither the Inspector	nor his employe	r makes any warrantv				
expressed or impl	ied, concerning th	e pressure ve	ssel describ	ed in this Ma	anufacturer's	Data Repo	rt. Furthermore, neitl	ner the Inspector	nor his employer sh				
be liable in any m	anner for any pers	sonal injury or	property da	nage or a lo	ss of any ki	nd arising fr	om or connected wit	h this inspection.					
	<u>.</u> ,					•	·						
Date	Signed			rized Inspec	- 4 - 12	Commiss		andarament Ct	ate, Province and No.				