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

_			15.110.110.110.110																	
. Ma	nufactured and ce	rtified by	_		DAEKY	UNG MA	CHINERY	/ & ENGI	NEER	RING	CO., LTD / 12		SUGOK-DO		KU, UL	SAN, 680-1	10. SOL	JTH KOREA		
Ма	nulactured for					C/O BA	NTREL	TOWER	4 TH F	LOOF	R, 700-6 TH AV	/ENUE	S.W CAL		ERTA	CANADA				
Loc	cation of installatio	n .					SUNC	COR VOY	/AGE		JPGRADER / I	FORT	McMURRA	Y ALBERTA	A CAN	(ADA				
Тур		HORIZ		(Name and address) HEAT EXH. DK2007-090B (Texit, separator, jil, vessel, heat exh., etc.) (Mig's serial No.)																
		łońz., vet., o	r spinere)					(Tank	c, seper	rator, jk	t, vessel, heat exh.,	, etc.)					(M	lo's serial No.)		
_	U251			DK2007-090-001 REV.5 (Drawing No.)						2418 (Narī. Bd. No.)							2008 (Year built)			
. AS	ME Code, Section			. + 2006									N/A Special Service per UG-120(d)							
ems	6-11 incl. to be c	ompleted	for singl	e wall w		n and Adden kets of ja		vessels,	shell	of he				f multi-cha	mber		al Service (per UG-120(d)		
She	ell (a) No. of co	ourse(s):	575V 2	4				(b) Ove	rall le	ength	(ft & In.):	15.	21' & 10.66"							
	Course(s	s)	· · · · · · · · · · · · · · · · · · ·	Material			Thickness (In.)				Long. Joint (Cat, A)		Circum. Joint (Cat, A, B,			, & C) Heat Treatment				
ło.	Diameter, In.	Length	(ft & In.)	Spec./Grade or Type		Nom. Corr.		Тур			ne	e Eff.		Type Full, Spot, None		Eff. Temp. Ti		Time		
1	52' (I.D)	9'8	8.14	SA516-70N		0.87	0.87' 0.125'			SPOT		85%	1	SPOT		85%	-	-		
1	52* (I.D)	5' & 7.38'		SA516-70N		0.87	0.87' 0.125'		Ĺ.,	SPOT		85%	1	SPOT		85%	-	-		
1	52" (I.D)	5' & 7.33'		SA516-70N		0.87	87' 0.125' 1			SPOT	85%		1	SPOT		85%	-	-		
1	57' (I.D)	57' (I.D) 11.81'		Ser. 1997	SA516-70N		1'	0.125	5 1		SPOT		85%	1		SPOT	85%	-	-	
-			-		-		-	-	-	-	•		-			•	-			
He	ads: (a)				V (60min. de or Type) H					_ (8	b)		()	lafi Spec. No.,		V/A r Type) H.T. – Tri	ie & Temp			
	Location (Top),	Thickn	ess (In)		ladius	Ellipti		Conica	, 1	He	emispherical	1	Flat	Side	to Pre	ssure	1	Category	Α	
	Bottom, Ends)	Min.	Corr.	Crown		Rati		Apex Ang			Radius		ameter	Conve	x	Concave	Type	Full, Spot, I		
a)	END	0.81*	0	51.30	9,69*	2:1					20		_	12		YES	S	-	100%	
b)		-	-	-	-	-					-		-	-			-	-	-	
rem	ovable, bolts used	l (describe	other fa	estenino)	NP III							N/A					Y-12-14		
	0100.0, 00.10 00.0	, (dwoller	outor it	23 CO FI IN								(Vari Sc	oec. No., Grade	, size, No.)						
Tyr	e of jacket				N/A	Č.				14	Jacket closure	4				N/A				
	oar, give dimension					250			-	N/A		100000			ie .			d, describe		
MA	WP 425.0 (internal)	- F.V (external		at Ma	ix, temp	(intamat)	(exter		Mi	in. de	sign metal te	mp.		20	'F at	420	(1.11)	F.V(EXT)	_ psig	
). In	npact test	- 22 - 5	YES (SH		ANGE, SH						ZLE NECK)			at test te	empera	ature of	_	-20	*F	
-	ydro., pneu-, or co				5	66 psig			of tes						N/A		-,			
	12 and 13 to be o				s.		C 4 071				C 07				125"			BOLTE	n	
2. 11	ubesheet:	SA182- Stationary (I				Dia., in	54.87°			_	6,87°		//		120 Mow., h	i.	- AI	schment (welder		
	SA182-F6	Sa Cl 1				1.56*				6.8	7.			0.125*				BOLTED		
-	Floating (Mati					Subject to pre	ss.)		1	Nom, th		-		r. Ažov., In.		<u> </u>	Mosta	nent (welded or b	olied)	
3. Tu	ubes:	SA268-					1"						065*			1008		STRAIG		
		ri Spec. No.,				200	0.D., In.	=	**************************************	==5.		m. tk.	in, or gauge			Number		Type (Straigh	(or U)	
ams 1. Si	14-18 incl. to be nell (a) No. of (er cham	bers of jad	cketed ve		channel Overall le					3' & 9	.85"						
		200					20			7.80 DOSEN				-	2000	<u></u>	a) T			
	Course		- 140. 1	-	Materia		-	ness(mm)	_	To a -	Long. Joint		-			(Cat, A. B. &	-	Heat Tre		
lo.	Diameter, In.		h (ft&ln.)	S	pec./Grade		Nom.		_	Туре	Full, Spot, N	one	EII.	Type		Spot, None	Eff.	Temp.	Time	
1	52" (I.D)	3,5	3 9.85	_	SA516-7	UN	1'	0,125	D.	1	SPOT		85%	1		SPOT	85%	1125'F	60 min.	
-			-	_			-								-	-				
-		-				-						-	-							
_											-	-			-					
		1			-							-			305.33	an lefteral ter	A 25.00	e-ana		
5. H	eads: (a)				COVER: S se or Type) H.					(b)						66-2N(135m Type) H.T Time		25 ' F)		
	Location (Top),	Thickne	2000 March 10		adius	Elliptic		Conical		Hen	nispherical	F	lat	Side t	o Press	sure		Calegory A		
	Bottom, Ends)	Min.	Corr.	Crown		Ratio		Apex Ang			Radius		meter	Convex	T	Concave	Type	Full, Spot, No		
a)	END	6*	0.125*	-	-	-			1		-	6	52"	-		-	S	-	100%	
b)	END	2.03*	0.25	-	-	-		-			IR: 43"		-	YES		YES	S	7-	100%	
	oughla halfa	l (dossit	a other f	netocin-	1		(2)	Δ103_D	7 - 1	3/8-	8UN x 17.32	: 52	cate (h) SA103-F	7:1	1/4-8UN x 2	0 081	: 56sete		
em	ovable, bolts used	(uescribe	s outer la	satel iti iğ			(0) 3	×199. D	1 1	0/0-			sers (C			.,	L	, 505013		



FORM U-1 (Back)

6. MAWP: 503 (internet)		F.V (external)	psig at max.	temp. 650 (intensi)	(external) *F Min. (design metal te		-20 'F at _	503(IN	.// ٢.٧(0	psig	
7. Impact test YES	(CHAN	NEL (COVE		TUBESHEET, FLOATING OF THE COMPONENTS IN	G(HEAD, FLANGE), BAC	CKING DEVICE)	at tes	st temperature of		-20	*F	
8. Hydro., pneu., er ce	mb, les	st press.		663 psig F	Proof test			N/A				
9. Nozzles, inspection,	and sa	fety valve o	penings:									
Purpose	No.	Diameter	Flange	Ma	terial	Nozzle Thic	kness(In.)	Reinforcement	How A	Itached	Location	
(Inlet. Outlet. Drain)	NO.	or Size	Type	Nozzle	Flange	Nom.	Corr.	Material	Nozzie	Flange	(Insp. Open.)	
SHELL SIDE INLET	1	16"	CL.300 WN	SA266-2N	SA105N	1.25	0	5	•2	+4	-	
SHELL SIDE OUTLET	1	16"	CL.300 WN	SA266-2N	SA105N	1.25	0		*2	14	-	
TUBE SIDE INLET	1	10"	CL.300 WN	SA106-8	\$A105N	0.59"	0	SA516-70N	+3	*5	-	
TUBE SIDE OUTLET	1	10"	CL.300 WN	SA106-B	SA105N	0.59*	0	SA516-70N	+3	•5	-	
PRESSURE GAGE CONN.	4	2	CL.300 LWN		SA105N	1.31*	0	-	-	+1		
EMPERATURE GAGE CONN.	2	2.	CL.300 LWN		SA105N	1.31*	0		-	*1		
EIN EIVIORE ONCE COUNT.	-		CL.SOO LVIN		3410314	- 1.51	-		-			
	-			283		_		2	-			
	-			- -			-	-	-	-		
·	-	-		_					-	-	-	
	-	-		-		-		-	-	-	-	
-	721			~			-		-	-		
O. Supports: Skirt	N	0 1	Lugs N/A	Legs N/A	Other S	SADDLE	Δt	arhed	SHELL	& WELF	DED	
0. Supports: Skirt NO Lugs N/A Legs N/A Other SADDLE Attached SHELL & WELDED (Yes or no) (No.) (Describe) (Where and how)												
1. Manufacturer's Partial (List the name of part					oned Inspectors have bee	en furnished for	the following i	tems of the report	:			
2. Remarks:												
1) OVER PRESSURE	PROT	ECTION D	VICE WILL B	INSTALLED IN THE	SYSTEM							
		TO SECTION AND ADDRESS OF THE PARTY OF THE P		WS: *1 : FIG. UW-16	Manager and Manage	FIG. UW-16.1	(-)	· FIG. 1881 4C 4	14 11			
2) THE MARK(*) UF	ABOVI	E IIEM 19	IS AS FULLU					: FIG. UW-16.1	(0-1)			
				*4 : SNGL.,BUT	r weld, rt-spot 🔹	5 : SNGL.,BUT	IT WELD, RI	-NO				
3) ADDITIONAL IMP	ACT TE	ST : YES (SUPPORT SA	DDLE, LIFTING LUG.	STIFFENING RINGS, N	AME PLATE BE	RACKET) AT	TEST TEMPERAT	TURE OF	-49 °F		
					-							
ASME Code for Press	sure Ve	ssels, Sec		correct and that all del sion 1.	CATE OF SHOP COMPL tails of design, material,	, construction,		nship of this vess	el confor			
U Certificate of Author	onzalio	n No.		22,056	Expires	JUN	E. 24		1	20	109	
Date May 36	5	Nam	۱ مر									
- 4	7000				RY & ENGINEERING C	O., LTD.	Signed		Repre	sentative)		
	7000			(Manufacturer)		Signed		(Repre	sentative)		
		_		CERTIFIC	Manufacturer) CATE OF SHOP INSPE	CTION			Repre	sentative)		
		_		CERTIFIC	Manufacturer)	CTION		d/or the State o	(Repre	sentative)		
I, the undersigned, he	olding :	a valid cor	nmission issu	CERTIFIC red by the National B	Manufacturer) CATE OF SHOP INSPE oard of Boiler and Pre	CTION ssure Vessel Ir					CT	
I, the undersigned, he	olding :	a valid cor	mmission issu	CERTIFIC ded by the National B demployed by	Manufacturer) CATE OF SHOP INSPE oard of Boiler and Pre '	CTION ssure Vessel In		OF a	HAR	TFORD		
I, the undersigned, he have inspected the co	olding : HI(ompon	a valid cor	mmission issu and bed in this Ma	CERTIFIC ded by the National B demployed by inufacturer's Data Re	Manufacturer) CATE OF SHOP INSPE oard of Boiler and Pre F port on MA	CTION ssure Vessel In ISBCT	nspectors an	OF 2008	HAR and st	TFORD ate that,		
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