





National Board Number:	2088
Mfr. Representative: \( \sum \text{U} \text{U}^f \)	1 Date: Sep. 18/20
Authorized Inspector	Date: Sep. 18 -26

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

1. N	lanufa	actured ar	nd certifie	d by		Ilsung	Copo	ration #7	74 Daeje		o, Onsan-E		_		n 689-892,	Rep	oublic Ko	rea.			
2. N	lanuf	actured f	or		SHELL C	ANADA	ENE	RGY 40	0 4AVE.	S.W.,		STA	TION N		ARY, ALBI	ERTA	A T2P 0	J4			
3. L	ocatio	on of insta	allation			CARM	ON C	REEK E						PLEX, A	LBERTA, (	CAN	ADA				
				*							(Name and add	dress)			,						
4. T	ype	<del></del>		Horizonta tal, vertical,	or sphere)			(Tank, se		Exchang	Ger neat exch., etc.	.)					E-004 s serial nur	nber)			
		WS	955.2					30-001 F					2088					201	5		
_		·	CRN)				-	number)					nal Board	number)	(Year built)						
5. A	SME (	Code, Sect	ion VIII, Di	v. 1			ED (July.01,2013) N/A Addenda, if applicable (date)] (Code Case number								N/A [Special service per UG-120(d)]						
Item	s 6-	-11 incl.	to be c	ompleted	for single					eted ve	*****			xchange						essels.	
				•				-							25mm						
		Co	urse(s)			Material Thickness Long. Join								Circ	cum. Joint (Ca			1	leat Trea	itment	
No.	<del>                                     </del>	Diameter	_	Length		arade or T		Nom.	Corr.	Туре	Full, Spot,	None	Eff.	Type	Full, Spot,	None	Eff.	+	Temp. Time		
1	-	0 1910mm 0 1910mm		416mm 2120mm		16-70(*1 16-70(*1		18mm 18mm	1.5mm 1.5mm	1	Full Full		1.0	1	Full Full		1.0	+	35℃ 35℃	1.1Hr 1.1Hr	
1		1910mm		2789mm		16-70(*1		18mm	1.5mm	1	Full		1,0	1	Full		1.0	_	35℃	1.1Hr	
									Body Fla	nges on :	Shells										
							Т									Bolting					
		T	ID	OD	Flange Thk	Min Llub	The	Material	How A	ttaghad	Location	Г	Num	& Size	Bolting Materi	- I	Washe (OD,ID,t		Washar	Material	
N		Type (*2)		2176mm	158mm	18mr		(*3)	Welded,			- 6		-8UN×45			89, 45, 6			1-F436	
	1	(*2)	1910mm	2176mm	158mm	18mr	n	(*3)	Welded,	dbl., but	t Middle	-	(	*13)	(*13	)	(*13)		(,	·13)	
(BL/	ANK)						$\dashv$					-									
L				L		L	<u></u>									1					
7. I	lead	ls: (a)			SA516~70(*1) pec. number, gr				emp.)		(b)		(Materi	al spec. nu	mber, grade or	r type)	(H.Ttime	and te	mp.)		
		cation (Top	,	ickness	Radius	5	Ellipti		Conical		nispherical	lat	to Pressure Category A								
<u> </u>	Во	ottom, Ends	193117.		<del> </del>	(nuckle	Rati	—	Apex Angle	_	Radius		meter 	Convex	Concave	_			, None	Eff.	
(a) (b)	-	End (BLANK)	11mr	n 1.5mm			2:1			_	-			YES	YES		_	Seam	iess	1.0	
	`	(DE) (IO)							D-4. CI-											•	
				·	T		$\top$	,	Body Fla	nges on i	neads					Bolting					
														Ī	***************************************	<u> </u>	Washer				
(a	,	(BLANK)	Туре	ID	OD	Flange Th	ik M	Min Hub Thk M		aterial	How Attache	ed I	Num & Si	ze Bolt	ting Material	rial (OD, ID, thk)			Washer Material		
(t	_	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>										土									
8. 1	Гуре	of jacke	et			N/A				Ja	cket closu	re .				N/A		٠			
	li ha		limanajas							N/A				(	Describe as og		d weld, bar O <b>lted, d</b> e		o or c	kotoh	
	ir ba	r, give d	imensioi											•			okeu, ut				
9. 1	WAN		66kPa	F.V (Externa		ax. tem	p. <u>.</u>	340°C		340°(		. des	sign me	etal tem	p. <u>-45</u>	°C	_ at	12	66kPa	·	
10.	Impa	act test	icinai,	CENTOTINE	,		ES(S	SHELL-A		(=				at test	temperatu	re .o	f	-45°	С		
11.	Hyd	ro., <del>pnet</del>	r <del>., or co</del> i	nt. test i	(Indica pressure			the compon OOKPa	ent(s) impa		f test										
Iten	ns 12	2 and 13	to be d	ompleted	for tube s	ections.															
	Tub	esheet		SA765-II(	*1)		191	0mm			231mm				3mm			W	'elded		
			Station	ary (material	spec. no.)]	(Diame		bject to pre /A	ss.)]	(No	ominal thicknes N/A	s)			orr. allow.) V/A		Attach		welded o	r bolted)]	
			[Floatii	N/A ng (material :	spec. no.)]	***************************************	_	/A neter)	ELECTRICAL ESSEN	(Norr	IN/A inal thickness)	ndjaliketa pinte	atric PCDSonthipsin	CONTRACTOR STATEMENT OF THE STATEMENT OF	V/A . allow.)	TOTAL CONTRACT	4-17-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	COOTPONE'NG	N/A chment)	entra de la constante de la co	
13.	Tub			213-T22			05mm	1			03mm				2024				U		
		(M	aterial spec.	no., grade	or type)	(	O.D.)			(Nomir	nal thickness)			(N	lumber)		ı	Type (	Straight o	r U)]	





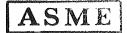
National Board Number: 2088

Mfr. Representative: Sp. III Date: Sp. II Sol.

Authorized Inspector Date: Sp. II Sol.

## FORM U-1 (Cont'd)

																	changers. 2103r	nm						
14. Shell: (a) No. of course(s) 1  Course(s) Material											_ (0) (	Ove	ian iei	gui										
		Co	urse	(s)			N	/laterial		Thic	kness		Lon	g. Joint	(Cat.	A)	Circu	m. Joint (Cat. A, E		B & C)		Heat Treatment		
No.	lo. Diameter Len		Length	s	Spec./Grade or T		Туре	Nom.	Nom. Corr.		e Fu	ull, Spot, Noi		Eff.	Туре	Full, Spot	, None	Eff.	Tr	emp.	Time			
1	1,1	D 1910mm	٦	2	103mm		SA5	1,6-70(*	1)	28mm	1.5mm	1		Full		1.0	1 1	Fu		1,0	60	34℃	1.3Hr	
	<u> </u>	(BLANK)								_		<u> </u>				_								
	<u> </u>					<u> </u>				<u> </u>													·	
											Body Fla	anges	on Shells	· · · · · · · · · · · · · · · · · · ·						***************************************			*	
				I		T												E	olting					
N	0.	Type		ID	OĐ	Flange	Thk	Min Hui	b Thk	Material	How	Attac	ched	Locati	ion	Num	& Size	Bolting Ma	terial	Wast (OD,ID	thk) Washer Materia			
/5/	1	(*2)	191	0mm	2300mm	00mm 227mm 28mm (*3) Welded, dbl., bu					ıl., butt	Enc	<del>1</del>	52,2 1/4"-8UN×645L SA320-L7M 127, 60, 6mm					6mm	AST	<i>I</i> -F436			
(Br)	NK)		_	-				ļ		······································	<del> </del>				$\dashv$			<b></b>				<u> </u>		
								ļ			<del>                                     </del>				-									
15.	15. Heads: (a) SA765-II(*1)/H.T-634°C & 1.3Hr (b) N/A  (Material spec. number, grade or type) (H.Ttime and temp.) (Material spec. number, grade or type) (H.Ttime and temp.)																							
	<u> </u>	ocation (Top			ickness		Radius	1	Ellip		Conical	Т	Homienh	orical	Γ	Flat	Side to F		typer (			tegory A		
		ottom, Ends		Min.	Corr.			nuckle	Ra		Apex Angle		Hemispherical Radius			ameter	Convex	Concave	Тур			t, None	Eff.	
(a)	m	End		205mr	n 1.5mr	n -	1	-	-			┪	-		23	00mm	-		_	$\neg$	<del></del>		_	
	<u> </u>											丁												
											Dody Clo		an Haad											
	Т		<u> </u>	Т			Т				Body Fla	inges	on nead:	3	. 1				olting					
															$\vdash$				T	Wash	· · · · · · · · · · · · · · · · · · ·			
	_	Location	T	Type ID		OD		Flange T	hk	Min Hub Tr	ik M	lateria	il Ho	w Attac	hed	Num	& Size	Bolting Ma	terial			Washe	Material	
ļ	_	(BLANK)					_												_			<u> </u>		
						<u> </u>	L											<u> </u>				<u> </u>		
17.	16. MAWP 3081 kPa F.V at max. temp. 200°C 200°C Min. design metal temp45°C at 3081 kPa (Internal) (External)  17. Impact test YES(CHANNEL-A01) at test temperature of -45°C .    Indicate yes or no and the component(s) impact tested																							
19.	Nozz	zles, insp	ect	ion, a	nd safe	ty valve	oper	nings: (	<b>*16</b> )															
		Purpose				Diameter	ameter			Mater	erial		Nozzle Th		iess	Reir	Reinforcement		nent D	nt Details		Location		
	(Inlet,	Outlet, Drai	in, el	tc.)	No.	or Size	٦	Гуре		Nozzle	Flang	е	Nom.	C	Corr.	N	faterial	Nozzle	Flange		(Insp. Open.)		en.)	
	SHE	LL SIDE I	NLE	ΕT	1	DN 450	\	w.e.	5	SA333-6			14.27mm 3.0mm SA516-70(*1)		16-70(*1)	(*4)			-					
Ş	SHEL	L SIDE O	UTL	.ET	1	DN 200		w.e.	5	SA333-6			12.7mm	3.	0mm	SA5	16-70(*1)	(+5)				_		
5	HELL	SIDE VE	ENT	(*6)	1	DN 50	Cl. 3	800 lwn.	<u> </u>	(*10)	(*10)		16,65mn	1 3.	0mm	INF	IERENT	(+4)	$\perp$	***				
S	HELL	. SIDE DF	AIN	l(*6)	1	DN 50		300 lwn.	<u> </u>	(*10)	(*10)	)	16,65mn	3.0	0mm	INF	ERENT	(+5)			ــــــــــــــــــــــــــــــــــــــ			
IN.	TERM	1. BLOWD	OW	N(*6)	1				<del> </del>	(*10)	(*10)	-+	16,65mn			+	IERENT	(*5)			<b></b>			
L		(*7)(*9)			1	DN 80		300 lwn.	ļ	(*10)	(*10)		20.6mm		0mm		IERENT	(*4)						
		(*8)(*9)			1	DN 80		300 lwn.	┼	(*10)	(*10)	_	20.6mm		0mm		ERENT	(*4)	_		┼	-		
<u>_</u>		SPARE(*9		<b>.</b>	1		<u> </u>	300 lwn.	<u> </u>	(*10)	(*10)		20.6mm		0mm		IERENT	(*4)				~		
	20. Supports: Skirt NO Lugs N/A Legs N/A Others SADDLES Attached WELDED TO SHELL  (Yes or no) (Number) (Describe) (Where and 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, Manufacturer's name, and identifying number):  NONE																							
22.	Rem	_			zed cor					App.2 F _7M/SA19			*3. SA				IG. UW-16 7. MIN. FL			FIG. L		3.1 (c)	· · · · · · · · · · · · · · · · · · ·	
	ΩΝ	/IN. FLO					· /=										7. MIN. FL 5/8"-10UN							
		SA350-			HNLC		SE C			CONN	y GOVE						movable b			<del></del>	annoi	Covo	<u> </u>	
					re conn						refer to						0.6. 14.							
																	J-4 FORM							



National Board Number: 2088

Mfr. Representative: \(\sigma\) \(\sigma\) Date: \(\sigma\) Date: \(\sigma\) \(\sigma\) Date: \(\sigma\) \(\sigma\) \(\sigma\)

## FORM U-1 (Cont'd)

	CERTIFICATE OF SHOP C	OMPLIANCE										
We certify that the statements in this report are correct and that all details of design, material, construction, and workmanship of this vessel												
conform to the ASME BOILER AND PRE	ESSURE VESSEL CODE, Section VIII, Div	vision 1.										
U Certificate of Authorization Number	32,997 Expires DEC. 04,											
Date 12/20/5 Name	ILSUNG CORPORATION.	Signed Signed										
Date Traine	. (Manufacturer)	(Representative)										
	CERTIFICATE OF SHOP II	NSPECTION										
I, the undersigned, holding a valid com	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the employed by											
HSB G	lobal Standards	of Hartford CT.										
have inspected the pressure vessel describ	ped in this Manufacturer's Data Report on	Sep. (8, 20/3 , and										
•	·	ted this pressure vessel in accordance with ASME BOILER AND										
PRESSURE VESSEL CODE, Section VIII, D	ivision 1. By signing this certificate neither t	the Inspector nor his/her employer makes any warranty, expressed										
		port. Furthermore, neither the Inspector nor his/her employer shall										
		kind arising from or connected with this inspection.										
Date Sep. 18. Sept Signed S.JAN	G Commis	ssions NB#14412(A,N)										
	(Authorized Inspector)	[National Board (incl. endorsements)]										
CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE												
	t are correct and that the field assembly cor	instruction of all parts of this vessel conforms with the requirements										
		•										
of ASME BOILER AND PRESSURE VESSEL CODE	t are correct and that the field assembly cor E, Section VIII, Division 1. U Certificate of Authoriza	•										
of ASME BOILER AND PRESSURE VESSEL CODE	t are correct and that the field assembly cor	ation Number Expires										
of ASME BOILER AND PRESSURE VESSEL COOR	t are correct and that the field assembly cor E, Section VIII, Division 1. U Certificate of Authoriza (Assembler)  CERTIFICATE OF FIELD ASSEME	Signed Expires (Representative)  BLY INSPECTION										
of ASME BOILER AND PRESSURE VESSEL COOR	t are correct and that the field assembly cor E, Section VIII, Division 1. U Certificate of Authoriza (Assembler)  CERTIFICATE OF FIELD ASSEME	Signed (Representative)										
of ASME BOILER AND PRESSURE VESSEL COOR	t are correct and that the field assembly cor E, Section VIII, Division 1. U Certificate of Authoriza (Assembler)  CERTIFICATE OF FIELD ASSEME	Signed Expires (Representative)  BLY INSPECTION										
of ASME BOILER AND PRESSURE VESSEL CODE  Date Name  ', the undersigned, holding a valid con  of	t are correct and that the field assembly cor E, Section VIII, Division 1. U Certificate of Authoriza (Assembler)  CERTIFICATE OF FIELD ASSEME namission issued by the National Board  , have compared the statements in this	Signed  (Representative)  BLY INSPECTION  of Boiler and Pressure Vessel Inspectors and employed by  Manufacturer's Data Report with the described pressure vessel										
of ASME BOILER AND PRESSURE VESSEL CODE  Date Name  ', the undersigned, holding a valid con  of	t are correct and that the field assembly cor E, Section VIII, Division 1. U Certificate of Authoriza (Assembler)  CERTIFICATE OF FIELD ASSEME namission issued by the National Board  , have compared the statements in this	Signed  (Representative)  BLY INSPECTION  of Boiler and Pressure Vessel Inspectors and employed by  Manufacturer's Data Report with the described pressure vessel										
of ASME BOILER AND PRESSURE VESSEL COOR  Date Name  ', the undersigned, holding a valid conformation of and state that parts referred to as data if	t are correct and that the field assembly cor E, Section VIII, Division 1. U Certificate of Authoriza (Assembler)  CERTIFICATE OF FIELD ASSEME nmission issued by the National Board  , have compared the statements in this	Signed Expires  Signed (Representative)  BLY INSPECTION  of Boiler and Pressure Vessel Inspectors and employed by										
of ASME BOILER AND PRESSURE VESSEL COOR  Date Name  ', the undersigned, holding a valid conformation of and state that parts referred to as data it inspected by me and to the best of my kinds.	t are correct and that the field assembly cor E, Section VIII, Division 1. U Certificate of Authoriza (Assembler)  CERTIFICATE OF FIELD ASSEME numission issued by the National Board  , have compared the statements in this tems nowledge and belief, the Manufacturer has	Signed  (Representative)  BLY INSPECTION  of Boiler and Pressure Vessel Inspectors and employed by  Manufacturer's Data Report with the described pressure vessel  , not included in the certificate of shop inspection, have been										
of ASME BOILER AND PRESSURE VESSEL COOR  Date	t are correct and that the field assembly core, Section VIII, Division 1. U Certificate of Authoriza  (Assembler)  CERTIFICATE OF FIELD ASSEMENT OF ASSEMBLY OF AS	Signed  (Representative)  BLY INSPECTION  of Boiler and Pressure Vessel Inspectors and employed by  Manufacturer's Data Report with the described pressure vessel  , not included in the certificate of shop inspection, have been a constructed and assembled this pressure vessel in accordance										
of ASME BOILER AND PRESSURE VESSEL COOR  Date	t are correct and that the field assembly core, Section VIII, Division 1. U Certificate of Authoriza  (Assembler)  CERTIFICATE OF FIELD ASSEMENT OF ASSEMBLY OF AS	BLY INSPECTION  of Boiler and Pressure Vessel Inspectors and employed by  Manufacturer's Data Report with the described pressure vessel  not included in the certificate of shop inspection, have been a constructed and assembled this pressure vessel in accordance in 1. The described vessel was inspected and subjected to a ector nor his/her employer makes any warranty, expressed or eport. Furthermore, neither the Inspector nor his/her employer										
of ASME BOILER AND PRESSURE VESSEL COOR  Date	t are correct and that the field assembly core, Section VIII, Division 1. U Certificate of Authoriza  (Assembler)  CERTIFICATE OF FIELD ASSEMENT OF ASSEMBLY OF AS	Signed  (Representative)  BLY INSPECTION  of Boiler and Pressure Vessel Inspectors and employed by  Manufacturer's Data Report with the described pressure vessel , not included in the certificate of shop inspection, have been a constructed and assembled this pressure vessel in accordance in 1. The described vessel was inspected and subjected to a ector nor his/her employer makes any warranty, expressed or										



National Board Number: 2088

Mfr. Representative: V.S.W.7 Date: Sep. 18/2

Authorized Inspector: Date: Sep. 18. - 2

## FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. Manufactured and certi	fied t	ру	llsung	Coporation #74 Daejeong-Ro, Onsan-Eub, Ulju-Gun, Ulsan 689-892, Republic Korea.											
				(Name and address of Manufacturer)											
2. Manufactured for _		SH	ELL CANAD	ADA ENERGY 400 4AVE. S.W., BOX 100, STATION M, CALGARY, ALBERTA T2P 0J4											
				(Name and address of Purchaser)  MON CREEK EXPANSION IN PEACE RIVER COMPLEX, ALBERTA, CANADA											
3. Location of installation	n	···	CAR	MON CREEK E	XPANSI				ALBERTA,	CANADA					
4 Tuno	Hariz	ontol		Li	eat Exc		ne and address	s)	15-HE-004						
	Horiza	ical, or sphere	.)			eat exch., etc	(Manufacturer's serial number)								
W99:		,,		VP-SG08-				208	8		2015				
(CR					rawing nu			(National Boa	rd number)		(Year built)				
Data Report Item Number						Rem	narks								
10. Nozzles, inspection, ar	nd saf	ety valve	openings:												
Purpose		Diameter		Material		Nozzle 1	hickness	Reinforcement	Attachme	nt Detalls	Location				
(Inlet, Outlet, Drain, etc.)	No.	or Size	Туре	Nozzle	Flange	Nom.	Corr.	Material	Nozzle	Flange	(Insp. Open.)				
AIR VENT	1	DN 50	Cl. 300 lwn.	(*10)	(+10)	16.65mm	3.0mm	INHERENT	(*4)	-					
PSV SHELL SIDE(*6)	1	DN 200	w.e.	SA333-6	***	12.7mm	3.0mm	INHERENT	(*4)	-	_				
P.I CONN.(*6)	1	DN 50	Cl. 300 lwn.	(*10)	(*10)	16.65mm	3.0mm	INHERENT	(*4)		_				
LEVEL IND. CONN(+6)	4	DN 50	Cl. 300 lwn.	(*10)	(*10)	16.65mm	3.0mm	INHERENT	(*4)		_				
LEVEL IND, CONN(+6)	4	DN 50		(*10)	(*10)	16.65mm	3.0mm	INHERENT	(+5)						
LEVEL GAUGE CONN(*6)	1	DN 50	Cl. 300 lwn.	(*10)	(*10)	16.65mm	3.0mm	INHERENT	(*4)	-					
EVEL GAUGE CONN(+6)	1	DN 50	Cl. 300 lwn.	(*10)	(*10)	16.65mm	3.0mm	INHERENT	(*5)	-	***				
TI CONN(+6)	1	DN 50	Cl. 300 lwn.	(*10)	(*10)	16.65mm	3.0mm	INHERENT	(*4)						
PRESS. GAUGE(*6)	1	DN 50	Cl. 300 lwn.	(*10)	(*10)	16.65mm	3.0mm	INHERENT	(*4)	_					
TUBE SIDE INLET	1	DN 700	w.e.	SA516-70(*1)(*17)		18mm	3,0mm	INHERENT	(*4)	_	<del></del>				
TUBE SIDE OUTLET	1 1	DN 700	W.e.	SA516-70(*1)(*17) (*10)	- (*10)	18mm 16.65mm	3.0mm 3.0mm	INHERENT INHERENT	(*4)	<del></del>					
TUBE SIDE PSV(*6) (*11)(*6)	2	DN 50 DN 50	Cl. 300 lwn.	(*10)	(*10)	16.65mm	3,0mm	INHERENT	(*4)	<del>                                     </del>					
(*11)(*0)		DIV 30	OI. 000 IVII.	(10)	(10)	10,0011111	0,000	11 11 12 1 12 1	<u> </u>						
	<u> </u>	<u> </u>	1	<u> </u>						<u> </u>					
	0 110	T MELL :-	-1111	main shell in the	ahana	of half aira	lo The bot	h and aids alsos	d by flot oo	or in the fe	rm of a round				
12. Remarks.															
	· · · · · · · · · · · · · · · · · · ·			ced by stiffeners.	Heler (	o peiow de	Hall. I Hus	it has complex s	знаре, то еч	aluate the	stability by				
				od) Analysis.				4		\ <del></del> 0009					
	****			516-70(+1), I.D 14											
				4516-70(*1), Thick		m.18mm, C	Corr. 1.5mm	n), Flat Diameter	1492mm, H.	T-635°C &	1.1Hr				
	*Stiffe	ener : Mate	erial SA516-7	0(*1), H.T-635°C			TOD.								
	1				1	_ <del></del>	TOP	L-, «			>				
	Λ		FULL AFTE	_R.T R GRIND FLUSH		10 1910 2-8	10 HOLES /	'	(23) 1-60x	95xt18 95xt18	C15 [				
		4-0200 HOL	ES 2-	010 HOLES		1 10	100	955		1 78	g (TYP.)				
	V		747		1YP.> 16			1							
ת	o \	250 1000	1000	1000 250	13	45		111		1 2 2	305				
,,	P.\	1 2021- 1000	2	+	4-\$200			lit.		1200	#				
		<del></del>			STIFFENER (BOTH SIDES) (T-60x95x118)	(23)	24.25.23	<u>"F"</u>			"G"				
	YP.>16 45		(21)		(T-60x95xl18)		BTM.				' L				
	13 7	'	= (1)	=						-=-					
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