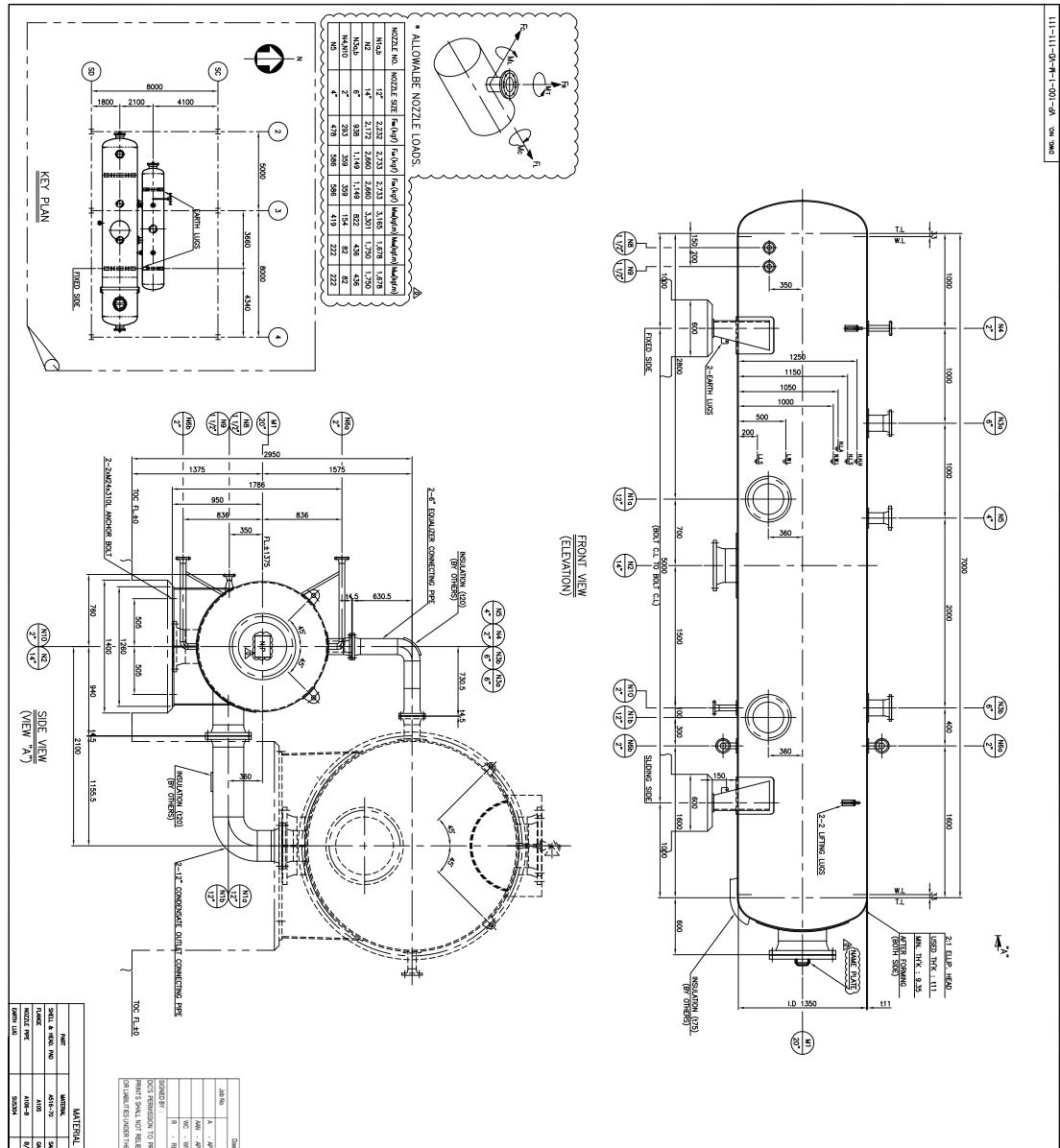
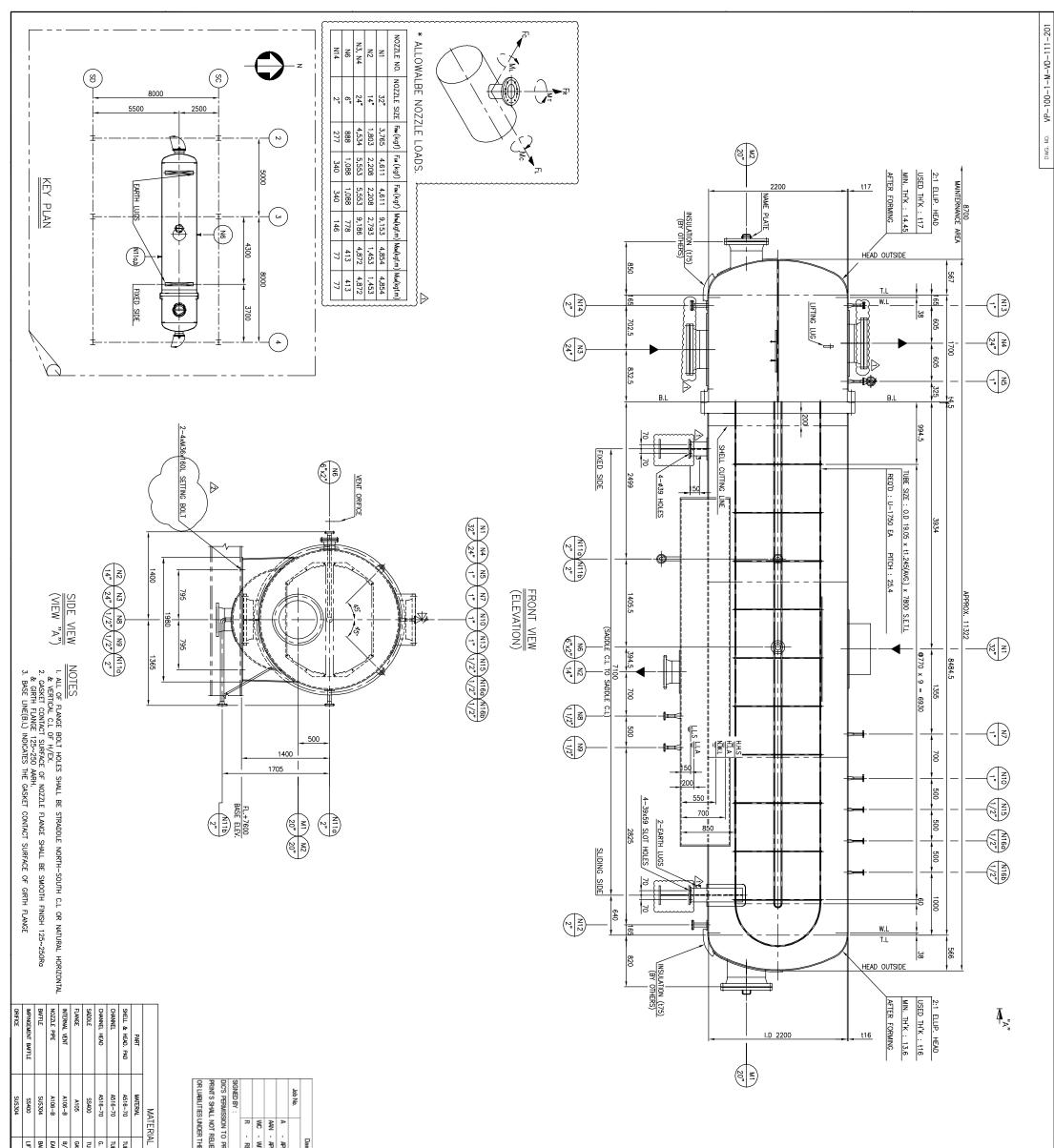


111-101 A1 0	-1-M-VD-1	ş	5 g 170-	060353	1/30		00100				
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의 수 1 Suffer NO 1	ı			도면변호 DWG.NO.	에 11000		SUS304	2			EARTH LUG
ER #1 SEMBLY	DH HEATER #1 ENERAL ASSEMBL	ENEF	Ω		E B B B B B B B	Ϋ́	spiral wound 1-B7 / A194-	SPIRM	>		gasket B/n
Tech Co., Ltd.	Нх Т	ower	Po				A266GR4 A213-TP304	A213			g. Flange Tube
	Ī				¥		SUS304	A266GR4+SUS304(CLAD)	2		TUBE SHEET
DAALEUNA INDUSTRUAL CO., LTD. seoul, korea 경남기연조신하사	11/19 [아조더(다 X "no as Sond Millarvio			94			METERWL	s R	<u>'</u>	PART	
	드신중공연주식회N Dosan Heavy Industries & Construction Co., Ltd	Heavy Indu			L /2				CONSTRUCTION		
SEOUL, KOREA	SEOUL,					≦ ≩					
	MBINED H		SONC		L	S R	IBILITIES	PONS	SLI	VENDOR FROM ITS	LIEVE VENDOR FROM
incheon Total Energy Company 송도 집단에너지사업 건설공사 source coupure LEAT & power plant	Total 문 집단에너지	бар ар П ар	ind	T		0	VENDO	2	EW TAKEN	DATE OR REV	PROCEED OR
ᆌ주식회사	압애	ᅄ	<u>r</u> e			;				IMENT	WITH COMN REJECTED
UNLEEEIISAWGIJAKMIJAKM 제도 설계 검사 심사 DRN DGN CHK CHK	DR APPROVAL ESCRIPTION			에 전 가 가 가 가 가 다 다 다 다 다 다 다 다 다 다 다 다 다 다	'HD-I	 ₂≁⊾			8	ROVED AS NOTED	APPROVED
J.H.LEE ILSIANO	rev. As marked rev. As marked	REV. AS		'08.05.19 '08.03.19					ω a	strial Co., Ltd 060353	aelim Indu
THIEFENSI	ISTRUCTION		,	09.1.20	≷						
Shell side vent Shell side drain	1365 1365	.R. R.	S.W	SI 150# SI 150#	ANSI AN	A106-B A106-B	160 160	2, 1,		N18	
	1365	<u>.</u>	S.W			A106-B	160	1/2"		N17	
₽	1365	ק. ק	S.W			A106-B	160	1/2"		N15	
CHANNEL SIDE DRAIN	1365	~ ~	S.W			A106-B	160	2, -		N14	
INLET (N? GAS)	1365	ק ק ק	S.W			A106-B	160 160	· - ·		N13	
EQUALIZER	1365 1365	R. 7.	W.N	SI 150#	ANSI	A106-B A106-B	160	6" ¹ 4	2	N10 N11a,b	
VENT INLET (DH HEATER #2)	1365	: .	S.W			A106-B	160	2"		ß	
INLET (CONDENSATE PUMP)	1365	R. R. F.	S.W	SI 300#	ANS ANS	A106-B	160 160	1 1/2"		N8 1	
N. COND GAS OUTLET	1365	ר ד <u>ר</u>	W.N			A106-B	8	6*x3		8	
SAFETY VALVE	1365	R. R.	W.N		ANSI NS	A516-70 A106-B	160	1"x2"		5 ¥	
DH WATER INLET	1365	R	W.N			A516-70	t17	24"		ß	
CONDENSATE OUTLET	1365	- <u></u>	¥.u	SI 150#	ANS	A106-B	8 1	12ª	2 -	N2a,b	
CHANN	SEE DWG.	<u></u>	W.N	SI 150#		A516-70	t17	; 2 0 ,	•	M2	
SHELL SIDE MANHOLE	SEE DWG.	FACING	W.N	rating ANSI 150#		MATERIAL A516-70	SCH. t15	20"	- <u>,</u> N	N.	
	ANGE FROM			NOZZLE S	18		PP		REQ'D	NOZZLE	
	1계역(인퀜)		į					ACTOR	QUAKE F	EARTH	
M/SEC	N/A								VELOCITY	WIND VELOCI	
8.2 · ·c	PAINTING P	SEE								PAINTING M.D.M.T.	
			82,200			WATER	FUL W				
S S			53,100			NG N	OPERATING		-	WEIGHI	
5			37,400				EMPTY		•		
75 MM KG		۵ چ	21,370	75		UNDLE	TUBE BI	_	LATION	INSUL	
2 (TWO)			1 (ONE)				₽	PER SHELL	PASS		
PER CODES 2:1 ELLIP.				2 4			ATMENT) EAT TRE	post weld heat treatment type of head	TYPE	
0.85 / 1.00		1.00	5	0.85		(S/H)		ğ	IOINT EFFICIENCY	JOINT	
' SEAMLE		SEAMLESS		SPOT		(S/H)	'		Ř.	RADIO	
65 / 89.91 °c 1.6 MM	_	.17 M	/ 95.17	25+124.71) 95.25	NG (IN/OUT)	OPERATING	≸—	SION ALLO	CORRO	
	G		.				DESIGN			TEMP.	
24.0 KG/cm ² G	KG/CM ² G	8 8		5.25		ESI ESI	hydro. Test Pneum. Test				
	KG/CM ² A	5		0.87		ING	OPERATING		ÜRE	PRESSURE	
2,039,600 KG/HR 16.0 KG/CM ² G	KG/CM ² G	8 8	F.V	92,110 + 3.5 /	92		DESIGN	_	RATE	FLOW	
DH WATER		/ CONDENSATE		· 🕿	3					KIND	
POINT 2 TUBE SIDE	ĬĜ	R	ц Ц Ц Ц	s						БА	
		1201		1 (ONE)					NO. REQUIRED	NO. R	
UIV.1 + HEI 1	SEC. VIII L	ZONE		ດີ						TEMA	
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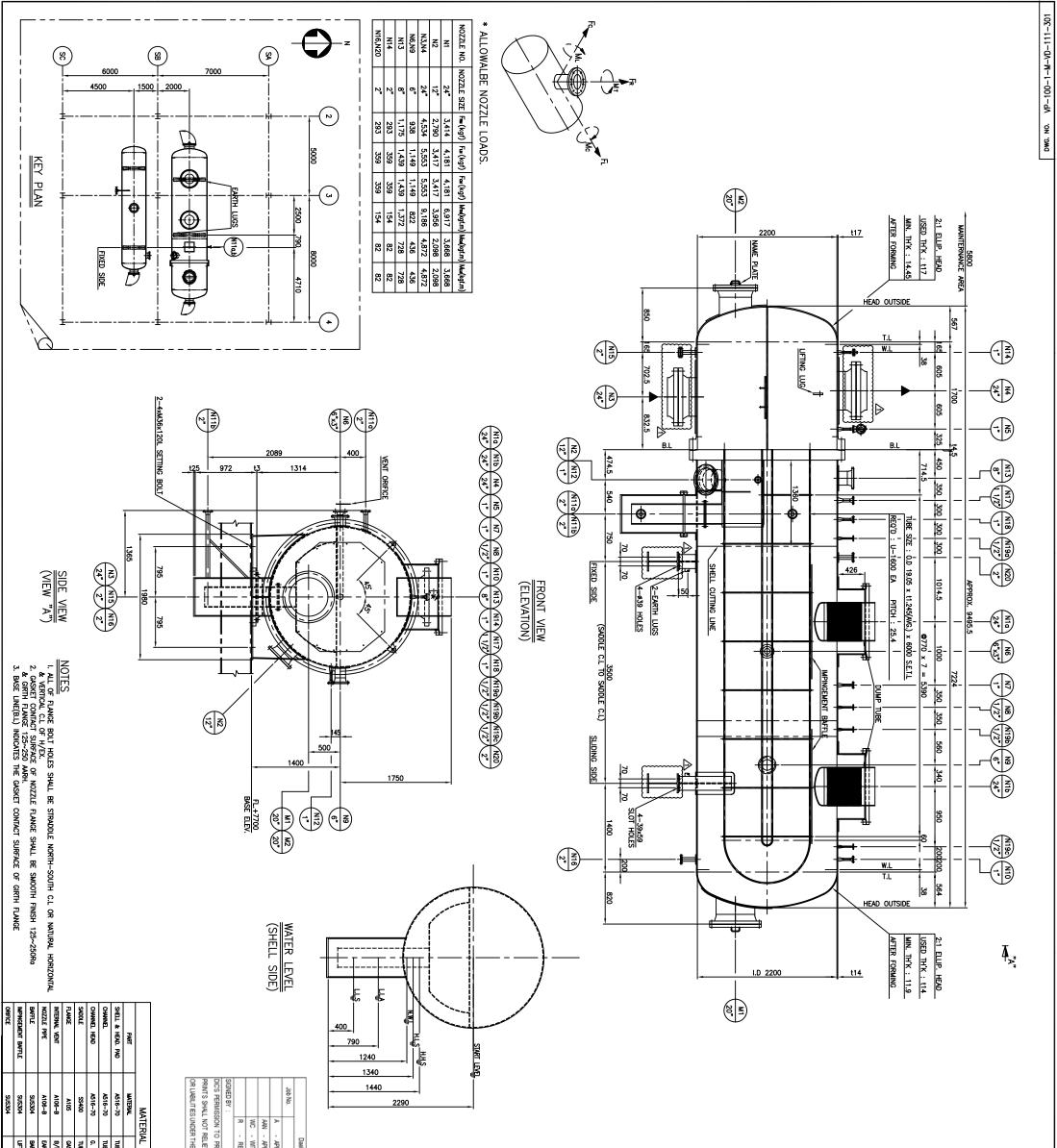
	ã	-	1/2	60	A106-B	ANC		W.N	Ā.	SEE DWG.	=				
	ß	-		_	A106-B	A	ANSI 150#	W.N	R.5		╡				
	N10	-		160	A106-B	ANS	ANSI 150#	W.N	R.F	940	DRAIN				
Z	NOTES														
-	ALL O	TICAL A	ALL OF FLANGE BOLT HOLES & VERTICAL C.L OF VESSEL.		SEES SH	P F)e strad	ĎÆ	NORTH-	SHALL BE STRADDLE NORTH-SOUTH C.L OR NATURAL HORIZONTAL	OR N	ATUR	HOF	NOZIS	۴
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						₽	09.1.20	-	OR CON	FOR CONSTRUCTION	٤	HLIEFINS	JANGT.H.K	THIEF NUMBER TO AND A DESCRIPTION OF THE DESCRIPTIO	LD LEE
					~		08.05.19		REV. AS	REV. AS MARKED	٤	HLEENS	JUNGT.H.K	J.H.LEENSJONGT.H.KINT.H.KIN KOLEE	10 E
							08.03.19		REV. AS	REV. AS MARKED	E	HIEF	J.H.LEENSJWWGT.H.KIM	INT.H.KIM K.D.LEE	Ê
					~	₽	07.11.19		FOR A	FOR APPROVAL	E	HLEENS	JUNIC T.H.K	T.H.KOM	
					a †	수정번호 REV.NO.	망 문 관		DESCRIPTION	IPTION OR		망 철 명 민 말	실 계 넘 사 DGN CHK	웆 웆 봊	λρ Ρ Γ
					수명산			<u>r</u> e	(종) (종)	인천종합애너지주식회사	거주	Ľ	봔		
Daelim Industrial Co., Ltd	al Co., Lt	ļ				_	1	ind	* • • •	incheon Total Energy Company 좋도 지단에너지사업 거석표사	vbaa		ypany		
	060353	[SONO	Š,	MBINED HE	≥₁2 ∞0	POWE		7	
APPROVED					설계사		i								
APPROVED AS NOTED	SNOTE	ľ					ł	B		darlim industrual co., LTD.		P	8	Þ	
WITH COMMENT	ENT									SEOUL, M	OREA				
REJECTED					사용사	17		Ŋ,			X	1			
	DATE					<u>I</u>	Needo	Doosan	Heavy Indu	Doosan Heavy Industries & Construction Co., Ltd.	Tion Co., L	a C			
PROCEED OR REVIEW TAKEN ON VENDOR	R REVIE	W TAKE	N ON V	ENDOR			ł	Z		DATELIM INDUSTRUAL CO., LTD.	Ĩ	P		þ	
ELIEVE VENDOR FROM IT'S RESPONSIBILITIES	IR FROM	1 IT'S RE	SPONSIE	BILITIES				1	2	SEOUL	OREA		•		
THE PURCHASE ORDER	SE ORDE	20					1	01 01		경남기업수식외사					
ছ	FOR C	SNO	CONSTRUCTION	OLL	VENDOR		ZŲ	Po	Power	Нх Те	Tech	С <u>о</u>	, _	td	
AL LIST					ᆲᇣ	EBB3)	HO	HOT WELL #1	, # ;				
PART	14	_	MET	METERIAL	ž	₽ n	9 9	G		GENERAL ASSEMBLY		۲ ۲			
SADDLE		_		SS400	د د	지고 문제	CONT. DWG.NO.			I		똜트	Sheet No.	_	
BA		<u>></u>	A193-87	3-B7 / A194-2H	-2∺ scare		사업소번호 PROJECT NO.	b Ma	- 1-	도면번호 DWG.NO.		비	또면종류	수 정	୍ଷ
		+			-4	-	060353	-	-100-1	VP-100-1-M-VD-111-111	1	~	₹	。	
								L L							

Z																																									
NOTES	N10	N9	ß	ı	N6a,b	ß	N4	N3a,b	N2	N1a,b	M1	NO.	NOZZLE	EARTH	WIND \	METAL TEMP.	PAINTING		WEIGHT			INSULATION	NO. OF	TYPE (POST	JOINT	RADIOGRAPHY	CORRO	EMP.	;		PRESSURE			LIQUID	KIND		NO. RE	TEMA	CODE	
10,	-	1	1	I	2	-	-	2	1	2	L	NO.	REO'D	EARTHQUAKE FACTOR	WIND VELOCITY	TEMP.	6					NOIT	no. Of pass per	type of Head	Post weld heat	JOINT EFFICIENCY	RAPHY	sion al					7		liquid density	kind of Fluid		NO. REQUIRED			
	2"	1 1/2"	1 1/2"	I	2*	4"	2"	6"	14 <u>70(</u> XS)	12"		SIZE		ACTOR				_					Per shell	-		ICY		CORROSION ALLOWANCE		_	-	+	0	_							
	160	160	160	Т	80	8	160	80	8	80	t11	SCH.	망					FULL WATER	OPERATING	ERECTION	EMPTY		Ē		TREATMENT			m	OPERATING	DESIGN	PNEUM.	hydro. Test	OPERATING	DESIGN							
	A106-B	A106-B	A106-B	ı	A106-B	A106-B	A106-B	A106-B	A106-B	A106-B	A516-70	MATERIAL						ATER	ING	ž						(S/H)	(S/H)		6		TEST	TEST	ING								
	ANSI	ANSI 150#	ANSI		ANSI -	ANSI 2	ANSI	ANSI .	ANSI	ANSI	· ISNY	RATING	NOZZLE																									1			
	150#	150#	150#		150#	300#	150#	150#	150#	150#	150#	ดี	뀌																								ş	(ONE)	'		DESIGN
	W.N	W.N	W.N	ı	W.N	W.N	S.W	W.N	W.N	W.N		~ ~ ~																									Shelt side				
	유	R.F	Ŗ	ı	Ŗ.ŗ	Ŗ.	Ŗ	Ŗŗ	Ŗ.	Ŗ	R.F	FACING	FIC				SEE F										St									STEAM	M	CAPACITY	TYPE	ASME	DATA
	940	SEE DWG.	SEE DWG.	ı	940	940	940	940	940	940	SEE DWG.	£	SPECIFICATION	1계역(인毱)	N/A		PAINTING PROCEDURE	15,110	12,130	4,080	4,540	75	1 (ONE)	2:1 ELLIP.	PER CODES	0.85 / 1	SPOT / SEA	1.6	95.17	200	1	5.25	0.87	3.5 / F.V	961.5			4		SEC.	
	DRAIN	Ш	п	1	BRIDLE PIPE CONNECTION	PUMP MIN. FLOW RETURN	INITIAL FILLING	EQUALIZER	CONDENSATE OUTLET	CONDENSATE INLET	MANHOLE	DESIGNATION		1)			ROCEDURE)	P.	ES	1.00	SEAMLESS									CONDENSATE		10.66	HORIZONTAL	VIII DIV.1	
					-CTION	ETURN									M/SEC			ନ	ଚ	Ğ	ଜ	M						MM	°,	°,	KG/CM ² G	KG/CM ² G	KG/CM ² A	KG/CM ² G	KG/M ³			M3			

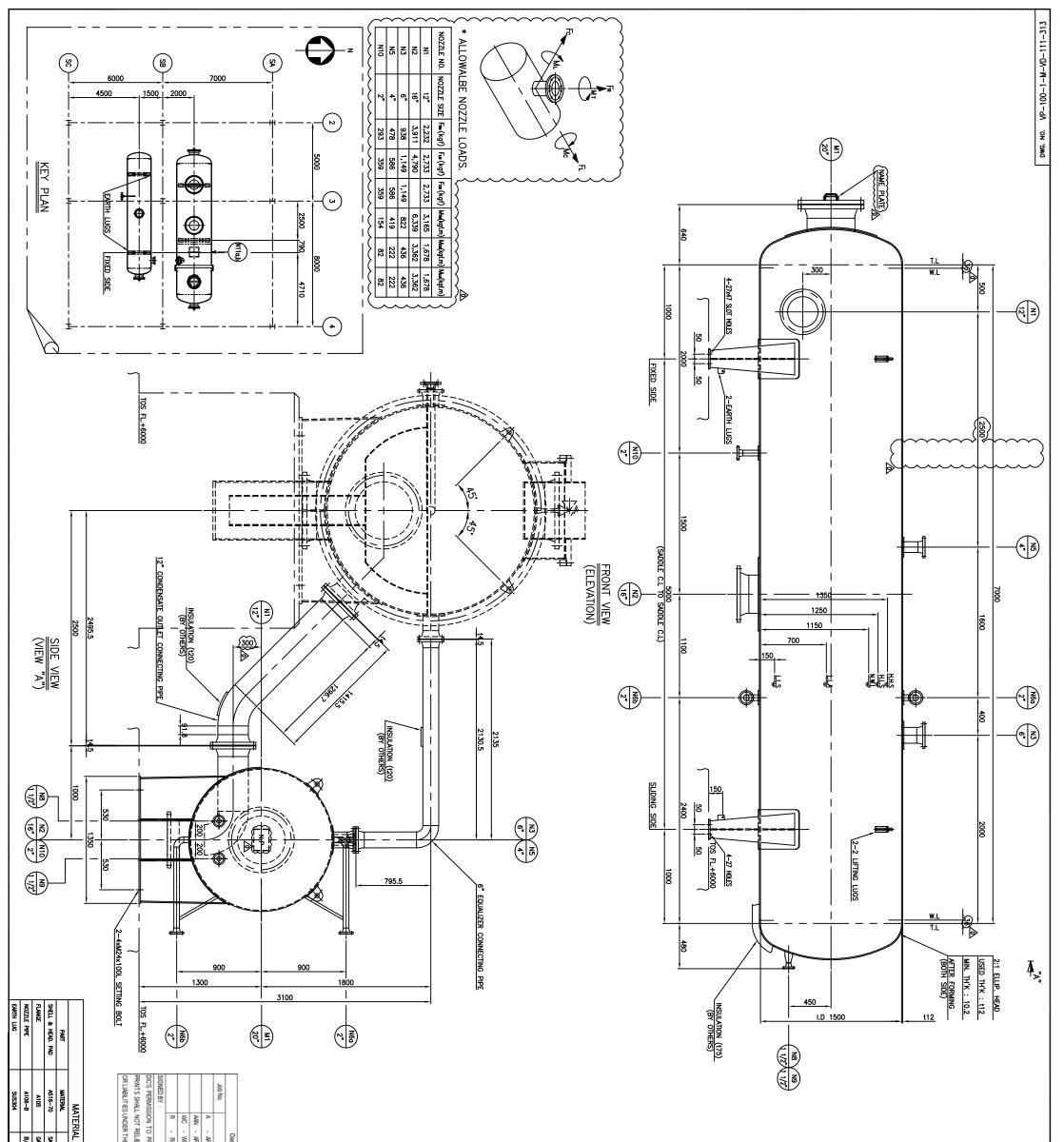


		09.6.1	FOR CONSTRUCTION	J.H.LEEN.SKANGT.H.KIMW.K.AHNK.D.LEE	(IM W.K.AHNK.D.LEE
	\square	09.01.16	FOR CONSTRUCTION	J.H.LEEWSKWGT.H.KIMW.K.AHWK.D.LEE	(IM W.K.AHNK.D.LEE
		08.08.18	FOR CONSTRUCTION	THIRE NOW ALL WAY HIS MAKEN	(IMT.H.KIM K.D.LEE
Daelim Industrial Co., Ltd.	V	08.05.19	REV. AS MARKED	J.H.LEENSKWGT.H.KINT.H.KINKKD.LEE	(IMT.H.KIM K.D.LEE
060353	A	08.03.19	REV. AS MARKED	J.H.LEEN.SKANGT.H.KIMT.H.KIMK.D.LEE	(IMT.H.KIM K.D.LEE
APPROVED	A	07.11.19	FOR APPROVAL	J.H.LEEN.SKANGT.H.KIMT.H.KIMK.D.LEE	(IMT.H.KIM K.D.LEE
APPROVED AS NOTED	수정변호	발자		제도 실계 검사 심사 승인	사실사 승인
WITH COMMENT	사업주	H			ŝ
REJECTED	/		인전풍알에너시주직의시	v la fed	-** 1
DATE	_	T	Incheon Total Energy Company	Company	<u><</u>
PROCEED OR REVIEW TAKEN ON VENDOR			SONGDO COMBINED HEAT & POWER PLANT 가운문과 기사되었다.	건열광지 POWER PLA	4
LIEVE VENDOR FROM IT'S RESPONSIBILITIES	설계사				:
THE PURCHASE ORDER.	_	4	DALLIM INDUSTRIAL CO., LTD.		UT D.
FOR CONSTRUCTION	nev Vesv		<u> </u>	2	
L LIST			DAAELIAN INDUSTRUAL		40
PART METERIAL			SEOUL, KOREA		4
TUBE SUPPORT PLATE SUS304	4	6	경남기업주식회사		
TUBE SHEET A266GR4+SUS304(CLAD)	유민주				
C. FLANCE A266CR4			Power Hx Tech Co.,	Co., L	Ltd.
TUBE A213-TP304					
GASKET SPIRAL WOUND	· 비미 동양대국		DH HEATER #2		
B/N A193-B7 / A194-2H			GENERAL ASSEMBLY		
EARTH LUG SUS304	계약자 5	도면변호 DWG.NO.	I	음 문 동 수	-
BAFFLE SPACER SCP	B2 HT	사업소변호	٩ ٩	유명조미	⊅ ⊵
LIFTING LUG SS400	SCALE	PROJECT NO.	DWG. NO.		<u> </u>
	1/30	060353	VP-100-1-M-VD-111-201	A1	2

N 1 6a, b	N15	N14	N13	N12	N11a,b	N10	ß	N8	۷7	N6	N5	V4	N3	N2	'n	M2		NOZZLE F		EARTHQUAKE FACTOR	WIND VELOCITY	M.D.M.T.	PAINTING			WEIGHT			INSULATION	NO. OF PASS PER	TYPE OF	POST WELD HEAT	JOINT EFFICIENCY	RADIOGRAPHY	CORROSION ALLOWANCE	TEMP.			PRESSURE		FLOW RATE	KIND OF FLUID		LOAD	NO. REQUIRED	TEMA	CODE	
2	-	-	-	-	N	-	-				-		-	-	-		-	NO.		IAKE F									2 N	PASS	OF HEAD	E	FICIEN	APHY	ON ALL				ñ		Ē	FLUID			UIRED			
1/2"	1/2"	2"	-	2"	2"	<u> </u>	1 1/2"	1 1/2	-	6"x2"	1"×2"	24"	24"	14"	32"	20"	20"	SIZE		ACTOR				-		m		_		PER SHELL			9		_OWANC		+				-							
160	160	160	160	160	160	160	160	160	160	160	160	t17	-	-	t16	t17		SCH.						FULL WATER	OPERATING	ERECTION	EMPTY	TUBE BUNDLE		۴I		TREATMENT			"	OPERATING	DECICN	HYDRO.	OPERATING	DESIGN								
A106-B	A106-B	A106-B	A106-B	A106-B	A106-B	A106-B	A106-B	A106-B	A106-B	A106-B	A106-B	A516-70	A516-70	A106-B	A516-70	A516-70	A516-70	MATERIAL						ATER	NG	N		UNDLE					(S/H)	(S/H)		IG (IN/OUT)	E	TEST	NG	i								
ANSI	ANSI	ANSI	ANSI	ANSI		ANSI	ANSI	ANSI			ANSI	ANSI 300#	ANSI	ANSI		ANSI 300#	ANSI	RATING	NOZZLE																	136.96									1]
150#	150#	300#	300#}	150#	150#	ANSI 150#	150#	150#	150#	0#/300#	ANSI 300#	300#	300#	150#		300#	150#	ING FLANGE											75	_	2:1	PER	0.85	SPOT	6	~ §	360 1	12.0	2.34	8.0 / 1	7,2		ş		(ONE)	"C"		
S.W	S.W	S.W	S.W	S.W	¥.N	S.W	₩.N	¥.z	S.W	W.N	₩.N	¥.z	W.N	W.N	I	W.N		Ř						82,160	56,360	39,410	40,460	23,310		~	1 ELLIP.	R CODES		/ SEA		124.70				F.V	0	STEAM	SHELL SIDE					
R.F	R.F	R.F	R.F	R.F	R.F	R.F	R.F	R.F	R.F	R.F	R.F	R.F	R.F	R.F	ı	R.F	R.F	FACING	IFIC,				SEE F)	Ŭ	ММ		.Р	ĒS	1.00	SEAMLESS			-		8	8	8		Ř	_	EFFECTIVE SURFACE /	ZONE	ASME SEC.	
1365	1365	1365	1365	1365	1365	1365	1800	1800	1365	1400	1365	1400	1400	1800	1470	SEE DWG.	SEE DWG.	C.L	CIFICATION	1??(??)	N/A	-18.2	PAINTING PROCEDURE						_	_			_		-		r KG/CM-G	KG/CM*G	KG/CM ⁴ A	KG/CM ² G	KG/HR			DESIGN POINT	VE E AREA		SEC. VIII DIV.1	
PIT	PI	CHANNEL SIDE DRAIN	CHANNEL SIDE VENT	SHELL SIDE DRAIN	BRIDLE PIPE CON	SHELL SIDE VENT		Ш	INLET (NITROGEN GAS)	N. COND GAS OUTLET	SAFETY VALVE	DH WATER OUTLET	DH WATER INLET	CONDENSATE OUTLET	STEAM INLET	CHANNEL SIDE MANHOLE	SHELL SIDE MANHOLE	DESIGNATION					ROCEDURE						75	2 (TWO)	2:1 ELLIP.	PER CODES	ω.	SPOT / SEAMLESS	ارە	89.42 / 120	190	24.0	12.0	16.0	2,012,500	DH WATER	TUBE SIDE	INT 1	1,747.5	1	IV.1 + HEI	
		RAIN	T		CONNECTION				GAS)	ᄪ				Ē		NHOLE	ÍOLE	Ż			M/SEC	r.		ĸĢ	ଚ	KG	KG	ĸĢ	ММ				0	ESS	ММ	ri r	NG/CM-G	KG/CM-G	KG/CM ⁺ A	KG/CM ² G	KG/HR				M2			



BAFLE SPACER LIFTING LUG				tube sheet G. Flange	8 월		aua	JRCHASE ORDER	PROCEED OR		ROVED	ndustrial (ZZ	z	zz	zz	z	z	z				-		z,		, <u>s</u>			E		£		=	z J	_	5 7		=		7				. =	ᠳ	4
					PLATE			FROM ITS ORDER.	REVIEW		AS NOTED	1 Co., Ltd. 060353		NING~c J	N18	17 16	N15	3	N12 1		5 6	7	5 5	4		a, b	<u> </u>	ZZLE RE	AKI HQUA	WIND VELOCITY	PAINTING M.D.M.T.		EIGHT		INSULATION	NPE OF HEAD	S1 M	OINT EFFIC	ORROSIO	TEMP.		RESSURE		kind of fluid	NO. REQUIR	TEMA	CODE	
		A193-SI		A266G			CONSTRUCTION	RESP	REN N														1 1"x2"	- ·	1 12	2 24	20, 20, 20, 20, 20, 20, 20, 20, 20, 20,	2								PASS PER	HE I	CIENCY	ALLOW				.		@			
SS400	SUS304	-187 / 1	A213-TP	R4+SUS30 A266GR4	METERIM SUS304			ONSIBILIT	ON VEN					·** 160		1/3" 16	160 00	8 8 1 6 6	1" 16 16	160	6" /2" 16		2ª 80		12" 80 24" t17		0" t14	8	Ş			밑	ERECTI	TUBE		SHELL	TREATM		I≩ŀ	OPERAT	P	OPERATI	B					
	*	WOUND / A194-2H	-IP304	304(CLAC	↑ ۴		ION	TIES	DOR							_		_			_				0 A106 7 A516-	4 A516	+ +	PIPE				. WATER	ERECTION	BUND						NG T	PNEUM. TEST	operating hydro. Test	<u>କ୍</u>					
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