## TAKEN FROM MASTER DATA REPORT BY NATIONAL BOARD

## FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1 P.O. #BR7024895

1. 1	Manufactured a	nd cer	tified h	, SIS	TERSVI	LLE	TAN	K WOR	KS,	INC.,	1942	MC	COY S	ST., SI	STER	SVI	LLE, W	V 261	
	Manufactured and certified by SISTERSVILLE TANK WORKS, INC., 1942 MCCOY ST., SISTERSVILLE, WV 261 (Name and address of Manufacturer)  Manufactured for LUCITE INTERNATIONAL, 6350 NORTH TWIN CITY HIGHWAY, NEDERLAND, TX 77627 (Name and address of Purchaser)																		
	Lucite International, 6350 NORTH TWIN CITY HIGHWAY, NEDERLAND, TX 77627																		
										(Name and	address	11			דאהת	מאמ	, IA /	1041	
4.	HORIZONTAL HEAT EXCHANGER 06-290  (Horiz., vert., or sphere) (Tank, separator, jkt. vessel, heat exch., etc.) (Mfr.'s serial No.)  X 06-289, 06-290 REV. 1 3879 (Mfr.'s serial No.)																		
_	<u> </u>	(	onizi, vert.	0	6-289	, 06	-290	REV.	1	3879					200				
5	(CRN) (Drawling No.) (Nat'l. Bd. No.) (Year built)  SME Code, Section VIII, Div. 1 2004 ED. 2005 ADD. X  [Edition and Addenda (date)] (Code Case No.) [Special Service per UG-120(d)]																		
	(Edition and Addenda (date))  (Code Case No.)  (Edition and Addenda (date))  (Edition and Addenda (date))  (Code Case No.)  (Special Service per UG-120(d))  (Edition and Addenda (date))  (Code Case No.)  (Special Service per UG-120(d))  (Edition and Addenda (date))  (Code Case No.)  (Special Service per UG-120(d))																		
Item	s 6–11 incl. to l	of com	pleted	for singl	e wall ve: 3	ssels, j	jacket	s of jacke	ted ve	<i>ssels, shel</i> oth (ft & in	i of hea	at ex 19	changer. 9	s, or cham	ber of	muiti	chamber v	essels.	
0. 3	Course(s) Material Thickness Long. Joint (Cat. A, B, & C) Heat Treatment																		
No.	No. Diameter, in. Length (ft & in.) Spec./Grade or Type Nom. Corr. Type Full, Spot, None Eff. Type Ful													Time					
1					\$A240-316L			0	1 SPOT			85%				85%	X	X	
2	21½" OD				SA240-316L		.250			SPOT	85%			SPOT		85%	X	X	
3	21½" OD			40-31		.250		1		85% 1 S				85%	X	X			
7. Heads: (a) X (Mat'l Spec. No., Grade or Type) (H.T. — Time & Temp.) (Mat'l Spec. No., Grade or Type) (H.T. — Time & Temp.)																			
						T		remp.,	T					to Pressure		Category A			
	Location (Top, Bottom, Ends)	• • • • • • • • • • • • • • • • • • • •					ical io	Conical Apex Angl	Hemispherical Radius		Flat Diameter		Convex	T	Туре			e Eff.	
(a)	X	X	X	X	X	X	-	X	-	X	X		X		X	1	X	X	
(b)	X	X	X	X	X	X		X		X	X		X	Х	X	X		X	
lf rer	novable, bolts	used (d	describe	other f	astening)			X											
	ype of jacket				x				l.	(N Loket closus	Nat'l Spe	c. No.,	Grade, size	e, No.)	7	ζ			
														escribe as oge					
	If bar, give dimensions If bolted, describe or sketch.																		
9. 1	MAWP 150 X psi at max. temp. 320 X of Min. design metal temp. 20 of at 150 psi.																		
10. l	mpact test	NO -	- EXI	тчм:	FR IIH	A-51	(a)						at test t	temperatur	e of _	Х		°F.	
11. }	lydro., MXXX	~~~~~	K test i	(Indica	ate yes or no	and the	compo	nent(s) imp	act teste	d) test				X					
													,						
item 12	s 12 and 13 to : Tubesheet:	SA2	1 <b>0-3</b> 1	<i>for tube</i> L6L	sections. 25	3/4	**		1 1	/2"			NON	E		WE	ELDED		
	[S	tationary	(Mat'l Sp	ec. No.)]	L 25 3/4" No.)] (Dis., in. (subject to pr				(Nom. thk., in.)				(Corr. A	llow., in.)	[Attachment (welded or bolted)]				
	[]	Floating	Mat'l Spe	c. No.)]		(Dia., in	1.)		(No	m. thk., in.)			ICorr. Allo				achmant)		
13. 1	Tubes: SA249-1	316L ec. No.,	TYPE 2 Grade or	CAT.	111	3/4" D., in.)			16 I	., in. or gauge			(Numi				(Straight or	uni	
item	s 14-18 incl. to	be cor	npleted	for inne	er chambe	ers of	jacket	ed vesse	s or ch	nannels of	heat ex	xchai	ngers.			(.,,,,,	, co. a.g. r. o.	· · ·	
14. 5	Shell (a) No.	of cou	rse(s)		2			(b) Over	all leng	gth (ft & in	.):		1'8	3/4"		_			
	Course	(s)			Material		Thi	kness	Long, Joint (Cat. A)				Circum. Joint (Cat. A, B,			k C) Heat Treatment		tment	
No.	Diameter, in.	Length	ft& in		/Grade or		Nom.	Corr.	Турв	Full, Spot,		Eff.	Туре	Full, Spot,		Eff.	Temp.	Time	
1_	21½" OD	$\frac{1'}{2}$	3/8		40-316		.25		1	SPOT		35%		SPOT		85%	X	X	
<u>2</u> x	21½" OD		/4" X	SAZZ	40-316 X	느	.25 X	X	<u>X</u>	SPOT		35%		SPOT		85%	X	X	
	landar (n)				Λ		Λ	Λ	Λ	L X	SAZ	X 240-	X 3161.	X		X	X	X	
10. 1	15. Heads: (a) SA240-316L (b) SA240-316L (Mat'l Spec. No., Grade or Type) (H.T. — Time & Temp.) (Mat'l Spec. No., Grade or Type) (H.T. — Time & Temp.)																		
	Location (Top,		Thickness		Radius Ellipti		cal	Conical	Han	Hemispherical			Side to	Pressure		Ca			
	Bottom, Ends)			Crown	n Knuckle F			pex Angle		Radius		eter	Convex	Concave Type		Full,	Full, Spot, None		
(a)	END			21"ID		X		X	X		X		Х	YES X		NONE		85%	
(b)	04100 p7 0//W y ( 1/9W = 0 ((/) por mg 0410/ 07 0//W/109 y																		
fren	novable, bolts	used (d	lescribe	other fa	stening)	SAI	93-	D/ 3/4	+ A				Grade, size		1194	-2H	, 3/4	(120)	

FORM U-1 (Back)  16. MAWP 150 X psi at max. temp. 305 X of tinternal) (internal) (external) (external) psi at max. temp. 20 of at 150 psi.												
(internal)	(extern	al) psi at i	nax. temp	(interna	al) (ext	ernal)	Min. de	sign metal temp.		°F at _	150 psi.	
17. Impact test NO- EXEMPT PER UHA-51(d) at test temperature of X °F.												
18. Hydro., XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX												
19. Nozzles, inspection, and safety valve openings:												
Purpose		Diameter	Flange	Mat	terial	Nozzle T	hickness	Paint	How A	ttached		
(Inlet, Outlet, Drain, etc.)	No.	or Size	Type	Nozzie	Flange	Nom.	Corr.	Reinforcement Material	Nozzle	Flange	Location (Insp. Open.)	
VENT, DRAIN	2				LSA182-			X V	ELDED	WELDED	X	
INLET, OUTLET	4.				LSA182-				WELDED	WELDED	X	
X	X	X	X	X	X	X	X	X	X	X	X	
X	X	X	X	X	X	X	X	X	X	X	X	
X	X	X	X	X	X	X	X	X	X	X	X X	
X	X	X	X	X	X	X	X	X	X	X	X	
20. Supports: Skirt NO Lugs 2 Legs X Others (6) SADDLES* Attached SHELL (WELDED)												
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, mfr.'s name and identifying number)												
NONE / INSPECTION OPENINGS OMITTED PER UG46(a)												
E-205B AMMONIA STRIPPER BOTTOMS/PHOSPHATE STRIPPER FEED EXCHANGER.SER. NO. 06-290  22. Remarks: E-205A AMMONIA STRIPPER BOTTOMS/PHOSPHATE STRIPPER FEED EXCHANGER SER. NO. 06-289												
(2) BODY FLGS. TUBESIDE SA182-316L EACH UNIT: 2 1/4" thk. x 25 3/4" OD												
*(4)SADDLES SER. NO. 06-289 (2) SADDLES SER. NO. 06-290												
OVER PRES	SURE	PROTECT	ION PE	ROVIDEI	D BY OT	THERS.				V = · · · · · · · · · · · · · · · · · ·		
				CERTIFICA	TE OF SH	OR COMP	IANOT					
We certify that the state	ments	in this repor	t are corr	ect and th	nat all deta	ails of des	ign, mate	rial, construction	and work	manshin d	of this vessel	
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 Code for Pressure Vessels, Section VIII, Division 1.												
U Certificate of Authorization No. 490 Expires 2-28-2009												
Date 3-1-02 Name SISTERSVILLE TANK WORKS, INC. Signed Kick Hundersch												
			/ivid	OF DELETO				,	(Representa			
I, the undersigned, holding	ig a val	id commissi	on issued	hy the Nat	tional Boar	d of Daile	D	sure Vessel Inspe	ctors and/	or the State	or Province	
or and	embio	yed by	111	)D 01			of	HARTFORD	CT			
have inspected the pressure vessel described in this Manufacturer's Data Report on												
state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ACMS Co. L. C												
VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's' Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any												
percental injury of proper	ty dama	age of a loss	of any ki	nd arising	from or c	onnected	with this i	nspection.	i be liable	in any mai	iner for any	
personal injury or property damage or a loss of any kind arising from or connected with this inspection.  Date 3-1-67 Signed Commissions NB8/53AB WV/802												
(Nat'l Board incl. endorsements, State, Province, and No.)												
We certify that the staten	nents o	n this repor	CERTI	FICATE O	F FIELD AS	SSEMBLY	COMPLIA	NCE				
requirements of ASME Co	ode, Se	ction VIII, Di	vision 1. L	J Certificat	te of Autho	orization N	lo.	ation of all parts	of this ves	sel confor	ns with the	
requirements of ASME Code, Section VIII, Division 1. U Certificate of Authorization No Expires  Date Name Signed Signed												
(Assembler) (Representative)  CERTIFICATE OF FIELD ASSEMBLY INSPECTION												
I, the undersigned, holding	g a valid	d commissio	CERTIF n issued b	ICATE OF by the Nati	FIELD ASS	SEMBLY II	NSPECTIO	N				
of		ha	ve compa	red the st	atamento i	n this Mar	nufacturer	's Data Report wi	th the des	cribed pres	SUre vessel	
of, have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items, not included in the certificate of shop inspection, have been inspected by me and to the best of my knowledge and halife the Manufacturer's Data Report with the described pressure vessel												
The date to the beat of my knowledge and belief, the Manufacturer has constructed and accombled the												
The results of the control vill, Division 1. (Te described vessel was inspected and subjected to a feet of the control vill, Division 1.												
and softmedie field inspector nor his employer makes any warranty expressed as invalid												
described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.												
Date Signed Signed												

\_ Commissions \_

(Nat'l Board incl. endorsements, State, Province and No.)

\_ Signed \_\_

(Authorized Inspector)