FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
(Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only)
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

		т	STAITTY TAIT	HICTOTES	TNC	15/10 V	NCF '	STREET	BUCKA WO	NINT NC	PLANT #04
1. Manufactured a				,:•	ic Aido Abbilic			30050		70141 4 150	T Grate Ho.
2. Manufactured for	or <u>SYS</u>	TEMS (	CORP., 181	H & HOUL	AME AND ADD	RESS OF PUR	HASER)	30030	J		
3. Location of inst	allation _	SAME			(NAME A	AND ADDRESS					
4 Type HORIZ 122338										88651	1996
CHORIZ OF OR VERT TAN	i iki		GRIS SERIAL NO )		(CRN)		DRAWIN				BullT)
5 The chemical a The design, co	nd physic nstruction	al prope n. and w	rties of all parts orkmanship co	nform to ASN	ΛΕ Rules, S	of material s	Division	n 1 <u>199</u>	EAR		JRE VESSEL CODE.
ADDENDA :DATE:			.812	CODE CAS	ASE NOS S			PECIAL SERVIC	:E PER UG 120 (E . <b>25"</b>	36"-0	, tt
6. Shell: SA612				THK (IN)	CORR ALLOW (IN)			DIAM I D (FT	[ 8 IN )	LENGTH (	OVERALL: (FT & IN )
7. Seams: WELD, DBL			FULL T (SPOT OR FULL)	1009 EFF (%)				WEL	D.DBL (WELDED DBL .	FULL R.T. (SPOT. PA	ATIAL NO OF
	LAP BUTT	•							ORMED. N	OR FULL	
8. Heads: (a) Mail	. <u>SAU 1</u>	<u> </u>	SPEC NO GRA	NDE)		(D) Maii	5/101	(SPE	EC. NO GRADE)	<u> </u>	-
Se	g. Seams	s: WEL	D.DBL	H.T.:		R.T	: <u>SP</u>	OT	Eff:	85%	
LOCATION (TOP BOTTOM ENDS	MINI	MUM (NESS	CORROSION ALLOWANCE	CROWN RADIUS	KNUCKLE RADIUS	ELLIP!	ICAL IO	CONICAL APEX ANGLE	HEMISPHERICA I.S. RADIUS	E FLAT DIAMETER	SIDE TO PRESSURE (CONVEX OR CONCAVE)
A END	0.4		0"						654715		CONCAVE
B END	0.4		0"					<u> </u>	654715	<u> </u>	CONCAVE
If removable, b	olts used	d (descri	be other fasten	ings)			(N	MATL SPEC NO	O. GR SIZE. NO	1	
9. MAWP			250			psi at	max, ten	np		125	'F
Min. design me	tal temp.			`F	at <b>250</b>	•		est pressure		375	psi.
10. Nozzles, inspec										UW-16.	<u> </u>
PURPOSE	NO.	DIAN OR SI	TYPE		MATL.		NOM THK	REINF	ORCEMENT MATL	HOW ATTACHED	LOCATION
MANWAY	1	15	" PTFLG	SA51	6-70N	2	.5"	INTE	GRAL	(i)	HEAD
LEVEL GA	1,1	2.5"	7	SA10			00#			(y-2)	
TW,LL-PG	1,1	.75			SA105		00# 4.5.11	<del> </del>		(y-2) (d)	
FILL, VAP	1,2	<del> </del>	" PTFLG		SA516-70N SA516-70N		2.15" 2.53" INTE		CDAI	(d)	
LIQUID OUT	1	·	" PTFLG		6-70N		3.0" INTEGRA			(d)	
11. Supports: Skirt	NO	Lu	gs	Legs	Othe	er	(DESC	D.D.F.	Attache	ed	ERE AND HOW:
12. Remarks: Man	ufacturer	's Partia		properly ide	ntified and	signed by C	ommiss 955-9	ioned Inspe	ectors have b	een furnished fo	or the following items
of the report:				(NAME				ME AND IDENTI			
			ZONTAL LP IN A NON					30,000 k -205 AT	150 PSI.		
	LINE		IDMT/PSI B				\$-66		UG-20 (		
							1401144	10F			
. We certify that the	stateme	nts mad	e in this report			F SHOP CO			truction, and	workmanship of	this vessel conform
to the ASME Cod	e for Pres	sure Ve	ssels Section \	/III. Division	1, "U" Certi	ficate of Au	horizati	on No. 10.	,829 <sub>w</sub>	nich expires	ULY 18 19 97
Date 1-22-9	6c	o Na. 🛚	RINITY IN	DOSIKIES	, INC F	PLANT #0	<b>)4</b> Sig	neo	بدعما	REPRESENTATIVE	
						OF SHOP IN	SDECTI	ON			
Vessel constructe	ed by TR	RINITY	' INDUSTRI	ES, INC	PLANT !	#04	at _	ROCKY MO	DUNT, NC		
	d, holding	g a valid		sued by the	National B	oard of Bo	er and	Pressure Vo	essel inspect JRANCE CO	ors and/or the I	State or Province of
have inspected the			scribed in this				JANU	ARY 22	, 19		state that to the best of
my knowledge an	d belief, t	the Man	ufacturer has c	onstructed th	is pressure	vessel in a	ccordan	ce with ASN	ME Code. Sec	tion VIII. Divisi	on 1. By signing this
certificate neither	the inspe	ector nor	his employer n	nakes anv wa	rranty, exp!	ressed or in	plied co	incerning the	e pressure ve	ssel described i	n the Manufacturers' nage or a loss of any
kind arising from	or connec	cted with			Tan			NC 1332	_	BD 10867 A	•
Date 1-24-9		Signed	AUTH	ORIZED INSPEC	TOR)	2 Commis	SIUNS _			D (INCL. ENDORSEI E, PROV. AND NO )	AENTS).

FORM U-2A MANUFACTURER'S PARTIAL DATA REPORT (ALTERNATIVE FORM) S/O H-1958 A Part of a Pressure Vessel Fabricated by One Manufacturer for Another Manufacturer 131"Blank As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1 Manufactured and certified by . Trinity industries, Inc. 1901 Brennan, Ft. Worth, Tx 76106 Dallas, Texas Trinity Industries, Inc. 2 Manufactured for "Stock" Location of installation (Name and address) 958-95 Hemispherical Head 1995 Industries, S-40309-01 (Net'l Rd No.) (Drawing No.) 1992 A-93 5. ASME Code, Section VIII, Div. 1. Special Service per UC-120idi Code Case No (b) Overall length (ft & in.): (a) No. of course(s): Circum, Joint (Cat. A. B. & Ci Heat Treatment Land Joint (Cat. A) Type Full, Spot. None Full, Spot. None Ett Specificade or Type Diameter in Length, ft & in No SA-612 7. Heads: (a) (Mat'l Spec. No., Grade or Typel H.T .- Time & Temp IMai'l Spec. No., Grade or Type) H.T. -- Time & Temp Category A Thickness Hemispherical Fiat Conical Location (Top. Full, Suot, None Ett. Antin Anthers Apas Angle Bottom, Ends) WDE Spot 85% .. 65.937 (a) (b) If removable, bolts used (describe other fastening) (Mat'l Spec No., Grade, Size, No.) Min, design metal temp. psi at max, temp B. MAWP (internal) (external) 9. Impact test (Indicate yes or no and the component(s) impact tested) 10. Hydro., pneu., or comb. test press. 11. Nozzles, inspection, and safety valve openings: How Attached Location Purpose (Inlet. (Insp. Open ) Nozzie Flange or Size Outlet, Drain, etc. Top 1Y2 211 UW16. 3000# Cpla SA-105 Roto Ga (Describe) Head segments are hot formed @ 1650 degrees F and air cooled, double butt welded. Spot X-Rayed seams with joint efficiency of .466" min. x 131.875" O.D. segmental hemispherical head. CERTIFICATE OF SHOP/FIELD COMPLIANCE We certify that the statements made in this report are correct and that all details of material, construction, and workmanship of this pressure vessel part conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. Expires March 14. U Certificate of Authorization No. Trinity Industries, CERTIFICATE OF SHOP/FIELD INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of and employed by Old Republic Insurance Company of Dallas, Texas have inspected the pressure vessel part described in this Manufacturer's Data Report on U-LO 19 95, and state that, to the best of my knowledge and belief, the the pressure vessel part described in this Manufacturer's Data Report on Manufacturer has constructed this pressure vessel part in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his

This form (E00121) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

employer makes any warranty, expressed of implied, concerning the pressure vessel part described in this Manufacturer's Data Report. Furthermore, neither the Inspector

for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Commissions

9441-A Texas 1066

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

REPRINT 9/92

(12/91)

employer shall be liable in any mange

Signed

## FORM U-2A MANUFACTURER'S PARTIAL DATA REPORT (ALTERNATIVE FORM) S/O H-1955 2/A Part of a Pressure Vessel Fabricated by One Manufacturer for Another Manufacturer 131" Fitted As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

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. Mar	nufactured and o	ertified b	yT	rini	ty In	dustr	ies	, I	nc. 1901 E	of Manufactu	ian, Fi	. WOI	.11,	Tx. 7	0100	
	nufactured for	Tri	mity	, In	dustr	ies,	Inc	. Da	Allas, Tex	as						
				toc												
. Loc	ation of installat								(Nume and additi 955 – 9							
. Typ	e: Hemi	Descri	ption of vess	el part (sh	ell, Jwo piece he	ead, tube bundle	11		(Mtg's se	rial No.F	Tno		ICAN	1995		
	(Net'l. Bd. No		<u>s-</u>		92-C1		Tri	nit	y Industr	les,	Inc.			(Year b	with	
ASI	(Nath Bd. No ME Code, Section		v. 1		2A-93								. San .ca m	er UG-120idi		
	_				Edition and	i Addenija Idale		ul lanati	Code Case	No		Speci	Pi Severce bi	Er 03-120101		
. She						<del></del>		T Tengt	h (ft & in.):		Cucum	Joint (Cat. A. B. 4		Heat	Treatment	
	Course(s) No. Diameter, In. Length, ft & in.		16.00	Sunc	Material /Grade or Type	Nom	Truckines Nom Corr Type		-T	£!1.		ult, Spot, None Ett.		Temp.	Time	
No.	Diameter, In.	Caragin, 1					1	1								
							<u> </u>	<u> </u>			LL_					
. He	ads: (a)			-61	2 irade or Typel H	I Time & Te			(b)		(Mat'l Spec. N	o., Grade or Type	H.T Time	e & Temp		
	<del></del>	1 .				1					<del></del>	o Pressure		Category A		
	Location (Top. Bottom, Ende)	Min.	Corr	Crown	Radius	Elliptical Rafio	•	Conical pes Angle	Hemispherical Radius	Flat Owneter	Conves	Concave	Туре	Full, Spot, N.	one EII.	
(a)	Bottom, Ender								65.937"			Х	WDB	Spot	85%	
(b)		1.300							O.D.							
i remi	ovable, bolts use	d (descri	be other	fastenir	ıg)											
	0.0000, 00.00 00.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,									Grade, Size, No.) metal temp.		_ °F	at	psi.	
. MA	AWP	<u> </u>	(external)	psi a	st max, tem		rnall	(ext	eroal) P. Mi	in. design	metar temp.		_	•		
). Im	pact test						134	ndicale ve	s or no and the component(s)	mpact teste	edi					
n 1	lydro., pneu., or	comb te	et niess					Proof to								
	lozzles, inspection				ings:											
		1	T	<del>.</del>	<u> </u>	Ma	terial		Nozzie Thickness			How	Attached		Location	
	Purpose (Inlet, Outlet, Drain, etc.)	No	Diame or Si	1	Flange Type	Nozzie	Flan	199	Nam. Carr.		inforcement Material	Nozzie	Fla	snge	(Insp. Open.)	
	Loat Ga.	1	2 1	/2"	Cplq	SA-1	05		3000#		UW1				op	
1.T	PG.	1	3/4	11	Cplq.		A-105 6000#		UW1		↓		op			
Th	nermo.	1	3/4	11	Cplg.	SA-1			6000#	00011		6.1Y2	122		qoʻ	
Ma	anway	1_1_	15	11	Flg.	SA-5	16-	70	250#	Int	nerent	UW16.	112		rop qo'i	
		<u> </u>	<u> </u>	1		L	<u> </u>					L	_!			
12. 5	Supports: Skirt	- IVes	nr not	Lugs	(No )	Legs	(No.)			scribel		ached		(Where and h	iow)	
13. F	Remarks:	heal	seam	ent	sare				@ 1650 de							
	double	butt	wel	<u>ded</u>	. Spot	t X-Ra	ayec	l se	ams with	join	t_effi	ciency	of_	858		
-	.466" m	nin.	<u>x 13</u>	1.8	75" O.	D. se	egme	enta	l hemisph	eric	al head	<u> </u>				
						CERT	IFICAT	E OF S	HOP/FIELD COMPLIA ils of material, constr	uction a	nd workmans	hip of this p	ressure v	vessel part	conform to	
	te certify that the ne ASME Code f						a maca	an detai	is or material, consti							
•	Certificate of A			11	,454	131011 11	_ Ex	pires	March 14			19 96		/		
١		ILAC	-	T	rinity	v Indi	usti	ries	, Inc.		Signed	18	Tan	fort		
0	ate 10/3	17 13	. Name	•	1 1111 0.	1 1		nufacturer			. Signed		iRepy	entative)		
-						CER	TIFICA	TE OF	SHOP/FIELD INSPECT	TION	ı					
١.	the undersioner	d holding	a valid c	ommiss	ion issued l	by the Natio	onal Bo	ard of E	Boiler and Pressure V	essel Insp	ectors and/o	r the State o	r Provinc	ie of T	exas	
	nd employed by		C	ld	Repub	lic I	nsu	ranc	e Company	امسر	Daria	<u> </u>		nav	ve inspected	
	he pressure vess	el part de	scribed in	n this M	anufacturer	's Data Rep	port on	1	19 5		nd state that,					
١.	Aanufacturer has	construc	ted this p	ressure	vessel part	t in accorda	nce wi	th ASM	IE Code, Section VIII.	Division	1. By signing	this certifica	te neithe	er the inspe	ector nor his	
e	mployer makes a	iny warrai	nty, expre	essed g	implied, co	ncerning 🔑	e press	ure ves	sel part described in t	his Manu	facturer's Dat	a Report. Fur	thermore	e, neither th	he inspector	
n	or his employer	shall be li	able in ar	14 matrix	er for any p	personal (nj	ury or p	property	y damage or a loss of	f any kind	l arising from	or connected	with th	nis inspectio	on.	
L	ate 11-1-	25	Signed	$\perp \!\!\! \perp$	<u> </u>	1			Commis	sions .	9441-	A Texa		066	No.1	
														" LINAMES BUG		
112/9	111	Thi	s form (E	00/1211	may be ob	tained from	the A	SME Or	der Dept., 22 Law D	rive, Box	2300, Fairfie	id. NJ 0700	7-2300		REPRINT 9/92	