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

1.	Manufactured	and c	certified t	оу				J.D. C	ousins	, Inc. 667	Tifft S	Street Buffalo	NY 142	20 USA	<b>\</b>					
,	Manufactured	for					TUE		(1)	lame and	addre	ess of Manufa	cturer)					-		
3. l	ocation of ins	fallati	ion		THERMAL KINETICS 667 TIFFT ST. BUFFALO, NY.14220  (Name and address of Purchaser)  CENTRAL ILLINOIS ENERGY 23133 EAST COUNTY HWY 6 CANTON, IL 61520															
, ,							CENTRAL IL	LINOIS E		Y 23133 E Name and			Y b CA	NION,	IL 61520					
4.	Гуре:		(Horiz	Horiz.	r sphere)				(	CONDENS	ER						606-5			
			- (110112.	, vert., o	r spnere)	TKST	) D2-BC-7001 RE	Tank, sepa EV 0	arator	, jkt. vesse	7 9	at exchetc.) 999				(Mfr.	's seria 2006			
5. /	ASME Code, S	,	RN) on VIII. D	iv. 1	(Drawing No.) (Nat'l. Bd. No.) (Ye								(Year built)							
				_		(Edition and	on, 2005 Addend d Addenda (date	-13			(Co	de Case No.)			(Sp	ecial Serv	ice per	UG-120(d	1)1	
tems	: 6 - 11 <i>incl. to</i> Shell (a) No.	be c	completed ourse(s):	d for sing	le wall ves	sels, jackets N/A	of jacketed ve	ssels, she	of he	eat exchan	gers,	or chamber o	f multi-	chambe	er vessels	3.	•			
	Cours			<del></del>		Material				verall leng				Circus	n loint ((	N/A	8 C) I	Heat Ter	atment	
Vo.	Diameter, in.		gth (ft &	in.)	Sp	ec./Grade c		Nom.	Kness			Joint (Cat. A) , Spot, None	Eff.	Type	Full, Spe	ot, None	Eff.	Temp.	Heat Treatment	
1	-		-			-	,,,,		-	-		-	-	-		-	-	-	-	
2			-					-	-	-		-	-		-		-	·	-	
3		<u></u>				-			<u>_</u> -			-	-	-		-	-		-	
. H	leads: (a) —		/Mat	" Cana !	VI- 0 1	N/A			_	(b)					N/A					
	Location (T	ор		ness		dius (F	I.T Time & Te	emp) Conica		Hemisphe		(Mat'l Spec. N		de or I		Time &	e & Temp)  Category A			
	Bottom, En	ds)	Mín.	Corr.	Crown	Knuckle	Ratio	Apex Ang		Radius		Diameter	Conv	ex C	oncave	Type I	ull, Sp	ot, None	Eff.	
(a)	-		-	-	75	-	-	-		-		-	-		-	-		-	-	
(b)	ovable, bolts	USOC	d (descri	ha athar	factoring'	-	-			-			-						-	
	iovable, build	uset	u luescii	De Other	lasterning,							N/A								
					-					(M:	at'l Sr		e size	No.)						
	ype of jacket					N/A				(Ma Jacket cla		pec. No., Grad	le, size	, No.)	N	I/A				
. 1			ions:	-		N/A				•		pec. No., Grad				e & weld,		010.500	or sketch	
. 7	bar, give din		ions:	N	/A	N/A psi at ma	ax. temp. N	I/A		•		pec. No., Grad	(	Describ		e & weld, If t	olted,	c.) describe N/A		
ר . וו יו	bar, give din	nensi		N (exte			ax. temp. N	I/A		Jacket cl	osure	pec. No., Grad	(	Describ	e as oge	e & weld, If t	olted, at	describe N/A	p:	
ר . וו יו	bar, give din	nensi				psi at ma	(inter	rnal) N/A	(ext	Jacket class	°F	pec. No., Grad	(	Describ	e as oge	e & weld, If t	olted, at	describe N/A		
. 1 ! ! ! !	bar, give din	nensi N/A ernal)	)	(exte	rnal)	psi at ma	(inter	rnal) N/A	(ext	Jacket class	°F	pec. No., Grad	(	Describ	e as ogee	e & weld, If t	olted, at	describe N/A	p:	
. 1 M 0. 1 1. F	I bar, give din IAWP   (intermpact test	nensi N/A emal)	( READAX	(exte	rnal) ss. ses.	psi at ma	(inter	nnal) N/A I the comp	(ext	Jacket class	°Fteste	Min. design	(	Describ emp	e as ogee N/A	e & weld, If t	olted, at	N/A N/A ture of	p:	
). I N D. I 1. F	i bar, give din MAWP (interpreted the state of the state	nensi N/A emal)	s genata completed	(extended) test preside for tube SA-240-	rnal) es. e sections. 304/304L	psi at ma (Indicat N/A	(inter	nnal) N/A I the comp of test	(ext	N/A. lernal) (s) impact	°F teste	pec. No., Grad	metal f	Describ emp	e as ogee N/A	e & weld,  If the second of th	oolted, at empera	describe N/A	N/A	
. 1 M D. 1 11. F	i bar, give din AAWP ! (interpreted the state of the sta	N/A Pmal)	SERRAX Completed [Statio N/A	(extended for tube SA-240-)	rnal) ss. sections. 304/304L at'l Spec. N	psi at ma (Indicat N/A	(interesponding (interespondin	nnal) N/A I the comp of test	(extonent	Jacket cli N/A. lernal) (s) impact	°F teste	Min. design ed) .437 thk., in.)	metal t	Describ emp.  N/A  0 Corr. Alle	e as oged N/A	e & weld,  If the second of th	empera	N/A ture of  Bolted (welded	N/A	
. 7 M M D. 1 11. H ems 22. 7	AWP / (intermpact test / 12 and 13 to ubesheet:	N/A Pmal)	SERRATE COMPLETE OF N/A (Mat'l Sp	(extended for tube SA-240-nary (Ma	rnal) esssections. 304/304L at'l Spec. N	psi at ma (Indicat N/A	(interesponding processing proces	nnal) N/A the comportest 25"X 55"	(extonent	N/A. lernal) (s) impact	°F teste	Min. design  ed)  .437  thk., in.)	metal t	Describ emp.  N/A  0 Corr. Alle	N/A	e & weld,  If the second of th	empera	Modescribe N/A ture of Bolted (welded	N/A	
NO. 1 1. Femsez. 1	I bar, give din  AAWP  (interpreted the state of the stat	nensinensi	Statio N/A (Mat'l Sp	(extended to the section of the sect	ss. sections. 304/304L at'l Spec. N	psi at m: (Indicat N/A	(interespondent of the process of th	I//A mal) N/A If the comport test 25"X 55" ubject to p	(extonent	Jacket class N/A.  N/A.  Iernal)  (s) impact  (n. thk., in.	°F teste  1. Nom.	Min. design ed) .437 thk., in.)	metal t	N/A  OCorr. Alk	e as oged N/A	e & weld, if t	chment	N/A ture of  Bolted (welded	N/A S	
. 7 N N 0. 1 1. F ems 2. 7	MAWP (intermediate in the control of	N/A  Prinal)  C, SOK  be c  (Matto be	SA-2	(extended test pressured for tube SA-240-1 nary (Marec. No.)) 249-304/3 No., Graded for in	ss. sections. 304/304L at'l Spec. N	psi at m.  (Indicat N/A  Io.)]	(interespectation (interespectation) (interespectat	I//A mal) N/A If the comport test 25"X 55" ubject to p	(extended to the content of the cont	N/A. lernal) (s) impact  m. thk., in. (Nomexchange)	°F teste  1. Nom.	Min. design  Min. design  437  thk., in.)  (Co049  , in. or gauge)	metal t	N/A  OCorr. Alk	N/A N/A Dw., in.)	e & weld, if t	chment	MA ture of	N/A Properties	
. 7 h	MAWP (intermediate in the control of	N/A  Prinal)  C, SOK  be c  (Matto be	Statio N/A (Mat'l Sp	(extended test pressured for tube SA-240-1 nary (Marec. No.)) 249-304/3 No., Graded for in	ss. sections. 304/304L at'l Spec. N	psi at ma (Indicat N/A lo.)] (a) ers of jacke	(interespondent of the control of th	I/A mat) N/A If the comp of test 25"X 55" ubject to p  in, in.)	(extonent	Jacket cli N/A lernal) (s) impact (f) m. thk., in. (Nom exchange	°F teste  1. Nom)	Min. design  Min. design  ed)  .437  thk., in.)  (Co049  , in. or gauge)  & in.):	((C	N/A  OCorr. Alle	e as ogee  N/A  Dow., in.)	e & weld, if t  "F  at fest te  [Attace  4'-3 1/4"	chment (Atta	Bolted (welded -chment) Straight (Straight of straight	N/A  or bolted  or U)]	
0. 1 1. Hems 2. 1 -	i bar, give din AAWP (intermediatest lydro., pressor 12 and 13 to ubesheet: [Float ubes: 14 - 18 incl. is thell (a) No	nensinensing (Matting (Mattobee(s))	Station N/A (Mat'l Sp SA-2") Spec. ocomplete course(s	(extended test pressured for tube SA-240-3nary (Marec. No.)) 249-304/3No., Granded for in.	ss. sections. 304/304L at! Spec. N 304L de or Type ner chamb	psi at ma (Indicat N/A lo.)] (e) ers of jacke 2 Materia	(interespondent of the process of th	I/A mal) N/A If the compositest 25"X 55" ubject to p in. in.) channels o	(extonent) (No f heat (b) O	Jacket cli N/A lernal) (s) impact (nm. thk., in. (Nom exchange, verall leng	°F  teste  1. Nom)	Min. design  Min. design  A37  thk., in.)  (C049 , in. or gauge) & in.):	((Control of the control of the cont	N/A  OCorr. Alk	N/A	e & weld, If t  F  at test te  [Attau  4'-3 1/4"	chment (Attac	Bolted (welded chment) Straight Straight	N/A N/A or bolted	
0. I 1. Hemse2. 1 3. 1 4. S	i bar, give din AAWP (intermediates) (intermed	nensinensing (Matting (Mattobee(s))	[Statio N/A (Mat'l Spec. o complete course(s	(extended test pressured for tube SA-240-3nary (Marec. No.)) 249-304/3No., Granded for in.	ss. sections. 304/304L at! Spec. N 304L de or Type ner chamb	psi at ma (Indicat N/A lo.)] (a) ers of jacke	(interespondent of the contract of the contrac	I/A mat) N/A If the comp of test 25"X 55" ubject to p  in, in.)	(extonent (No (b) Ockness (Control (Con	Jacket class N/A.  N/A.  Iernal)  (s) impact  (nomexchange exertall lengus  srr. Type	°F  teste  1. Nom) n.thk., rs. tth (ft Long.	Min. design  Min. design  ed)  .437  thk., in.)  (Co049  , in. or gauge)  & in.):	((Control of the control of the cont	N/A  OCorr. Alle	N/A	e & weld, if t  "F  at fest te  [Attace  4'-3 1/4"	chment (Attac	Bolted (welded -chment) Straight (Straight of straight	N/A N/A or boited	
0. I 1. Feems 2. 1 3. 1 4. 5	i bar, give din AAWP (intermediatest lydro., pressor 12 and 13 to ubesheet: [Float ubes: 14 - 18 incl. is thell (a) No	nensinensing (Matting (Mattobee(s))	Station N/A (Mat'l Sp SA-2") Spec. ocomplete course(s	(extended test pressured for tube SA-240-3nary (Marec. No.)) 249-304/3No., Granded for in.	ss.  e sections. 304/304L at'l Spec. N  304L de or Type ner chamb	psi at m.  (Indicat N/A  lo.)]  ers of jacke 2  Materia	(interespondent of the control of th	I/A mat) N/A If the compositest 25"X 55" ubject to p in in.) Thi Non	(extenses (exten	N/A  N/A  Iernal)  (s) impact  (normathk., in.  (Normathk., in.  exchange.  verall lengus  s  irr. Type  ) SMLS	°F  teste  1. Nom)  n.thk., rs. th (ft	Min. design  Min. design  A37  thk., in.)  (Co. 049  , in. or gauge)  & in.):  Joint (Cat. A. All, Spot, None	((Coorr. Alle	N/A  OCorr. Alk	N/A	e & weld, If t  F  at test te  [Attau  4'-3 1/4"	chment (Attac	Bolted (welded chment) Straight Straight	N/A N/A or bolted	
0. 1 1. Herms 2. 1 3. 1 4. S	i bar, give din AAWP (intermpact test lydro., PREED 12 and 13 to ubesheet: [Float ubes: 14 - 18 incl. in Cours Diameter, in. 53"	nensinensing (Matting (Mattobee(s))	SERRITA  SOMPLETE  [Station N/A  (Mat'l Spec. or complete course (station course) (station	(extended test pressured for tube SA-240-3nary (Marec. No.)) 249-304/3No., Granded for in.	ss.  e sections. 304/304L at'l Spec. N  304L de or Type ner chamb	psi at m.  (Indicat N/A  No.)]  (indicat N/A  No.)]  (indicat N/A  No.)]  (indicat N/A  No.)]	(interespondent of the control of th	I/A mat) N/A the comp of test  25"X 55" ubject to p  " in.) channels o  Thi Non	(extenses (exten	N/A  N/A  Iernal)  (s) impact  (normathk., in.  (Normathk., in.  exchange.  verall lengus  s  irr. Type  ) SMLS	°F  teste  1. Nom)  n.thk., rs. th (ft	Min. design  Min. design  A37  thk., in.)  (C049 , in. or gauge) & in.):  Joint (Cat. A	((C	N/A  OCorr. Alk	N/A	e & weld, If t  F  at test te  [Attau  4'-3 1/4"	chment (Attac	Bolted (welded chment) Straight Straight	N/A N/A or bolted	
0. 1 1. Hemse 2. 1 3. 1 4. S	i bar, give din AAWP (intermpact test lydro., PREED 12 and 13 to ubesheet: [Float ubes: 14 - 18 incl. in Cours Diameter, in. 53"	nensinensing (Matting (Mattobee(s))	[Statio N/A (Mat'l Spec. complete course(s	(extended test pressured for tube SA-240-3 nary (Marec. No.); 249-304/3 No., Graded for in.; );	ss.  se sections. 304/304L at'l Spec. N  304L de or Type ner chamb	psi at m.  (Indicat N/A  No.)]  (indicat N/A  No.)]  (indicat N/A  No.)]  (indicat N/A  No.)]  (indicat N/A  (indi	(interespectation of the control of	I/A mat) N/A the comp of test  25"X 55" ubject to p  " in.) Channels o  Thi Nom .375	(extenses (exten	N/A  N/A  Iernal)  (s) impact  (normathk., in.  (Normathk., in.  exchange.  verall lengus  s  irr. Type  ) SMLS	°F  teste  1. Nom)  n.thk., rs. th (ft	Min. design  Min. design  A37  thk., in.)  (C049 , in. or gauge) & in.):  Joint (Cat. A	((C	N/A  OCorr. Allo (Nu  Circu Type	N/A	e & weld, If the second of the	chment (Attac	Bolted (welded chment) Straight Straight	N/A  or bolted  or U)]  Freatment  Time	
0. I 1. Hems 2. 1 3. 1 4. S	i bar, give din AAWP (intermediate (intermediate)) (intermediate)	nensinensing (Matting (Mattobee(s))	[Statio N/A (Mat'l Spec. complete course(s	(extended test pressured for tube SA-240-3 nary (Marec. No.); 249-304/3 No., Graded for in.; );	ss. sections. 304/304L at! Spec. N  304L de or Type ner chamb	psi at m.  (Indicat N/A  io.)]  ers of jacke 2  Materia pec./Grade SA-240-304 -SA-240-304 ade or Type	(interespondent of the control of th	I/A mat) N/A If the comport test  25"X 55" ubject to p  Thi Non .375 .250 .	(extenses substituting (b) Ockness (c)	Jacket cli N/A lernal) (s) impact  (h) m. thk., in. (Nom exchange everall leng s orr. Type ) SMLS ) SMLS (b)	estere 1. Nom) n.thk., rs., tth (ft	Min. design  Min. design  A37  thk., in.)  (C049 , in. or gauge) & in.):  Joint (Cat. A  II, Spot, None  None  None  (Ma	((( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (	N/A  OCOTT. Alle  OW., in.)  (Nu  Type	N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/A	e & weld, If the second of the	Chment (Attail (Type (	Bolted (welded chment) Straight Temp.	N/A  or bolted  or U)]  Freatmer  Time	
0. 1 1. Hemse 2. 1 3. 1 4. 8	i bar, give din AAWP (intermediate (intermediate)) (intermediate)	nensing (Matting (Mat	[Statio N/A (Mat'l Sp SA-2 t'l Spec. complete course(s 88 5/8"	(extended to the state of for tube SA-240-) nary (Malec. No.); 249-304/3 No., Graded for in.); in.)	ss.  se sections. 304/304L at'l Spec. N  304L de or Type ner chamb  SA- c. No., Gra	psi at m.  (Indicat N/A  Io.)]  ers of jacke 2  Materia pec./Grade SA-240-304 -SA-240-304 de or Type dius	(interespondent of the control of th	I/A mat) N/A If the composite test  25"X 55" Ubject to p  Thi Non .375 .250 . Temp) Conice	(extenses s.)] (No cknes s. Co	Jacket cli N/A lernal) (s) impact  (normal)  (s) impact  (hormal)  (Normal)  (Normal)  (excharge)  (verall lenguments)  (b)  Hemisphere	°F teste  1. Nom) h.thk., rs. th (ft	Min. design  Min. design  A37  thk., in.)  (Co. 049  , in. or gauge)  & in.):  Joint (Cat. A. A. None  None  None  (Mat. A.	((((((((((((((((((((((((((((((((((((((	N/A  OCOTT. Alle  OW., in.)  (Nu  Type	e as oged  N/A  N/A  DW., in.)  400  mber)  Full, Si  SA-240-3  Grade or ressure	e & weld,	Can Care Care Care Care Care Care Care Care	Bolted (welded chment) Straight Temp	N/A or boited or U)]  Treatmen Time	
0. J 1. Hems 2. 7 3. 1 4. S	ibar, give din AAWP (intermediates) (intermedi	nensing (N/A be continued to b	[Statio N/A] [Statio N/A] [Statio N/A] [Shari Spec. ocomplete course (shari spec. ocomplete cour	(extended test press of for tube SA-240-1 nary (Marec No.); 249-304/3; No., Graded for inc.); in.)	ss. sections. 304/304L at! Spec. N  304L de or Type ner chamb	psi at m.  (Indicat N/A  io.)]  ers of jacke 2  Materia pec./Grade SA-240-304 -SA-240-304 ade or Type	(interespondent of the control of th	I/A mat) N/A If the comport test  25"X 55" ubject to p  Thi Non .375 .250 .	(extenses s.)] (No cknes s. Co	Jacket cli N/A lernal) (s) impact  (h) m. thk., in. (Nom exchange everall leng s orr. Type ) SMLS ) SMLS (b)	°F teste  1. Nom) h.thk., rs. th (ft	Min. design  Min. design  A37  thk., in.)  (C049 , in. or gauge) & in.):  Joint (Cat. A  II, Spot, None  None  None  (Ma	((C)	N/A  OCOTT. Alle  OW., in.)  (Nu  Type	N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/A	e & weld, If the second of the	Ca Full, S	Bolted (welded chment) Straight Temp.	ps N/A or bolted or U)]  Treatment	
0. I 1. Hems 2. 1 3. 1 4. S	MAWP (intermediate in the property of the prop	nensing (N/A be continued to b	[Statio N/A (Mat'l Sp SA-2 t'l Spec. complete course(s 88 5/8"	(extended to the state of for tube SA-240-) nary (Malec. No.); 249-304/3 No., Graded for in.); in.)	ss.  se sections. 304/304L at'l Spec. N  304L de or Type ner chamb  SA- c. No., Gra	psi at m.  (Indicat N/A  Io.)]  ers of jacke 2  Materia pec./Grade SA-240-304 -SA-240-304 de or Type dius	(interespectation) (interespecta	I/A mat) N/A If the composite test  25"X 55" Ubject to p  Thi Non .375 .250 . Temp) Conice	(extenses s.)] (No cknes s. Co	Jacket cli N/A lernal) (s) impact  (normal)  (s) impact  (hormal)  (Normal)  (Normal)  (excharge)  (verall lenguments)  (b)  Hemisphere	°F teste  1. Nom) h.thk., rs. th (ft	Min. design  Min. design  A37  thk., in.)  (Co049 , in. or gauge) & in.):  Joint (Cat. A All, Spot, None None None  (Mat. Co)  (Mat. Co)	((Coorr. Allki	N/A  OCOTT. Alle  OW., in.)  (Nu  Type	e as oged  N/A  N/A  DW., in.)  400  mber)  Full, Si  SA-240-3  Grade or ressure	e & weld, If the second of the	chment (Attai (Type (	Bolted (welded chment) Straight Control Temp.	ps N/A or bolted or U)]  Freatment	

in removable, bolls used (describe office)

(Mat'l Spec. No., Grade, size, No.)

16. MAWP	25		5	15	psi at max, temp.	250 25	50 °F	. Min. de	sign metal temp.	20 °	Fat	25/FV psi.				
	(interna	al)	(exte	ernal)	(ii	nternal) (exter						-4 °F				
17. Impact test					NO PER UHA-51 (d) AND UCS-66(a) at test temperature of *F.  (Indicate yes or no and the component(s) impact tested)											
18 Hydro	IN IN INVIV.	e en en	dx test pres	e	(Indicate yes or no and the component(s) impact tested)  33 Proof test N/A											
Purposi		in, an	d safety val	Flange		terial	Nozzle T	hickness	Reinforcement	How A	ttached	Location				
	rain, etc.)	No.	or Size	Type	Nozzle	Flange	Nom.	Corr.	Material	Nozzle	Flange	(Insp. Open.)				
-	let	1	36"	LAPJT	SA-240-304/304L	SA-105	.250	0	NONE	UW16.1	LAPJT	DOME				
		-	4"	LAPJT	SA-312-304/304L	SA-105	.237	0	NONE	UW16.1	LAPJT	DOME				
	ain 	1	6 <b>"</b>			SA-105	.280	0	NONE	UW16.1	LAPJT	DOME				
VE	ent	1	0	LAPJT	SA-312-304L			-	-	-	-					
		-	-	-	-			-		+	-					
			-	-	-											
	-	<u> </u>	-	-	-		<del></del>			<del>  -</del>						
	-	-	-	-	-	-			-							
20. Suppo	rts: Skirt		-	Lugs	4 Legs	_ Oth	ners	-	Attached		WELDED	TO DOME				
	-	(Ye	es or no)	_	(No.)	(No.)		(Describe			(Where a	nd how)				
21. Manufa	acturer's Pa	artial	Data Report	s properly	identified and signed by	Commissioned Inspect	tors have bee	n furnished	for the following items	of						
the rep N/A	oort: (List th	ne nar	me of part, i	tem numbe	er, mfr.'s name and identi	fying number)										
NA																
-																
			meters are													
			ED IN THE		DSITION											
SAFET	TY RELIEF	DEVI	CE BY OTH	ER												
PO# 7:	3338				1											
					CERI	TIFICATE OF SHOP	COMPLIAN	CE								
We cer	tify that the	state	ements in th	nis report a	re correct and that all de	tails of design, materia	l, construction	n, and work	manship of this vessel							
					sels, Section VIII, Divisio											
U Certi	ificate of A	uthori	zation No.		1219	Expires			1/31/2008							
	i	1							M	1	10					
Date [	215	10	Ø Na⊓	ne	J.D. (	Cousins, Inc.		Signed		100	ull	1				
3						(Manufacturer)			C(Re	presentativ	/e) (	$\mathcal{I}$				
						TITION TE OF CLION	INCOECTIO	ON!								
					CER on issued by the National	RTIFICATE OF SHOP	esure Vessel	Inspectors	and/or the State or Pro-	vince						
1						on AMERICA INSURA		of		ton, MASS						
of		٧Y		nd employ						ton, who		, and				
have in	nspected th	ne pre	ssure vesse	el describe	d in this Manufacturer's D	ata Report on			ACME Code Co							
state t	hat, to the	best	of my knowle	edge and b	pelief, the Manufacturer h	as constructed this pre	ssure vessel	in accordar	ice with ASIVIE Code, Se	ecuon						
VIII, D	ivision 1. B	y sigr	ning this cer	tificate neit	ther the Inspector nor his	employer makes any	warranty, exp	ressed or ir	nplied, concerning the p	oressure						
					Report. Furthermore, nei			shall be liat	ole in any manner for an	У						
persor	nal injury or	prop	erty damage	e or a loss	of any kind arising from o	or connected with this i	inspection.									
Date	12/5/	17.	Sign		I A. Thon	······································		issions	NBTTIOA 1	0427	as_					
	12/3/6	4			(Authorized	Inspector)		,	(Nat'l Board incl. endor	sements, S	State, Pro	vince and No.)				
					CERTIFICA	TE OF FIELD ASSE	MBI V CON	API IANCE								
10/	-4:£ . 414 41-			thic report	are correct and that the	field assembly constru	action of all pa	arts of this	- vessel conforms with th	e						
vve ce	ertify that th	e sta	tements on	this report	ivision 1 U Certificate 0	of Authorization No.			Expires							
require	ements of A	ASME	Code, Sect	tion VIII, D	ivision 1. U Certificate o	TABLETIZATION TO			_							
Date			Nar	ne	J.D	. Cousins, Inc.		Signe —		-4.4						
						(Assembler)			(Re	presentati	ve)					
					<del></del>											
					CERTIFIC	ATE OF FIELD ASS	EMBLY INS	PECTION	s and/or the State or Pro	ovince						
I, the	undersigne	d, hol	ding a valid	commissio	on issued by the National	Board of Boller and Pr	essure vessi	si ilispector	g anordi are e							
of		-		and emplo	yed by	-			./ .tturnete Data Report	with the d	escribed	nressure vessel				
· of				-		, have compared th	ne statements	in this Mar	nufacturer's Data Report not included in the certif	icate of sh	on inener	tion, have been				
and st	ate that pa	rts re	ferred to as	data items	3	-					oh mahen	adia na is book				
inspec	ted by me	and t	o the best o	f my knowl	edge and belief, the Mar	nufacturer has construc	cted and asse	embled this	pressure vessel in acco	idance						
with th	ACME C	oda	Section VIII	Division1.	The described vessel w	as inspected and subj	ected to a hyd	drostatic tes	St OI			psi.				
D	-: 41-:	- +:6 o	oto poither t	he Inspect	or nor his employer make	es any warranty, expre	ssed or impli	ed, concerr	ing the pressure vesser							
Ry sig	ming this co	er utica	de nemiel m	ota Ranort	. Furthermore, neither the	e Inspector nor his em	ployer shall b	e liable in a	ny manner for any perso	onal						
descri	bed in this	Manu	nacturer's D	ala Kepuli	nd ariging from or copper	cted with this inspection	on.									
injury	or property	dam/			nd arising from or connec	man and mapoond	Comr	nissions		-						
Date			Sign	ed _	(Authorized	Inspector		Anna Anna ann an 1877 (Albarta)	(Nat'l Board incl. endo	rsements,	State, Pro	vince and No.)				

(Authorized Inspector)

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

1. N	lanufactured a	ind c	ertified t	by				J.	.D. Co	usins	s, Inc. 66	7 Tifft	Street Buffalo	NY 14	220 US	SA.				
) N	lanufactured f	or					(Name and address of Manufacturer) THERMAL KINETICS 667 TIFFT ST. BUFFALO, NY.14220													
3. L	ocation of inst	allatio	on						/N	Jame	e and add	ess c	f Purchaser)			II 6152	20		-	
	vao:		_	Horiz.		CENTRAL ILLINOIS ENERGY 23133 EAST COUNTY HWY 6 CANTON, IL 61520  (Name and address)  CONDENSER 606-5A														
4. T	уре. ——		(Horiz.		r sphere)		-	/T I			CONDENS		eat exch., etc.	· -			(M	bub- Ifr.'s ser		
P			-			TKS	D2-BC-7001 R		sepa	rator	, jkt. vess	ei, iie	7997	,			(14	20		
5. A	SME Code, S	(CR ectio		Div. 1		2004 Editi	(Drawing No.) on, 2005 Adder				-	(	Nat'l. Bd. No.	)				(Year	built)	
				_		[Edition an	d Addenda (da	ate\1				(Co	de Case No.)					ervice pe	er UG-120	)(d)]
ltems 6. S	6 - 11 incl. to hell (a) No.	of co	ompleted ourse(s):	d for sing :	le wall ves	sels, jackel N/A	s of jacketed v	essels,			e <i>at exchar</i> Overall len			of multi	-chamb	er vesse	/s. N/A			
	Cours	e(s)		T		Materia		=_	Thick				Joint (Cat. A)		Circu	m. Joint	(Cat. A,	B, & C)	Heat T	reatment
No.	Diameter, in.	Leng	gth (ft &	in.)	Sp	ec./Grade			Nom.	Cor		, <u> </u>	, Spot, None	Eff.	Type	·	pot, None			Time
1	-		-			=		-+	-	-	-		-	-	-		-	-		-
2			-					$\neg +$	-	-	-		-	-	-		-	-	-	-
3			-			112	1 = 1		-	-	-		-	-	-		-	-	-	-
7. H	leads: (a)					N/A					(b)					N/A	١			
			(Mat	'i Spec. I	No., Grade	or Type) (I	H.T Time & T	emp)		_			(Mat'l Spec. N	o., Gra	de or T	ype) (H.	r Time			
	Location (T	·		kness	Ra	dius	Elliptical	Co	onical	T	Hemisphe	rical	Flat		e to Pre		<u></u>		egory A	T 54
	Bottom, En	ds)	Min.	Corr.	Crown	Knuckle	Ratio	Apex	x Angle	e	Radius		Diameter	Conv	ex C	oncave	Туре	Full, Sp	oot, None	Eff.
(a)		-		-		ļ	-	-		-			-		-+		-		<del>.                                      </del>	<del>  -</del>
(b)	<u> </u>		-			<u> </u>		ــــــــــــــــــــــــــــــــــــــ					- N/A							
rem	ovable, bolts	useo	(descri	be other	tastening)						(NA:	n#" Sr	N/A oec. No., Grad	0 9170	No.)					
3. Т	ype of jacket					N/A					Jacket cl			0, 5,20	,,	١	N/A			
		_								_				(	Describ	e as oge	e & weld			or ekatch
ı If	bar, give dim	ensi	ons:						N//							21/4		ooited, at	N/A	or sketch. psi
N	IAWP N	I/A			/A	psiatm —		N/A			N/A	-°F	Min. design	metai t	emp	N/A	· '	" <b>-</b>	INIA	
O. Ir	(inte npact test	rnal)		(exter	mal)		(inte	ernal) N/A	A	(exi	ernal)						at test t	empera	ture of	N/A °F
J	-					(Indicat	e yes or no and			nent(	(s) impact	teste	d)				•		-	
1. H	ydro., pomexox	ØK	egyytx 1	test pres	s	N/A	Pro	of test	_						N/A					
	12 and 13 to	be a	mpleted	d for tube	sections.		86	.25"X 5	5"			1.	437		0				Bolted	
2. 1	ubesheet:			SA-240-3	t'l Spec. N	lo )!	[Dia., in. (si			ss.)]	(1)	lom.	thk., in.)	(C	orr. Alic	w., in.)	[Atta	chment	(welded o	or bolted)]
			N/A	nary (wa	тторес. т															
_	[Float	ing (I		ec. No.)]			(Día., in.)	0.0		(Non	m. thk., in.		.049	rr. Allo		00			chment) Straight	
13. T	ubes:			249-304/3				2" ., in.)			(Nom		in. or gauge)			nber)			Straight o	r U)I
·	44 40 :	(Mat	Spec. I	No., Gra	de or Type	) ers of jacke	ted vessels or	channe	els of h	eat e	exchanger	s.	iii. Oi gaago,		(**	,		1.36- (	<b>3</b> · · · ·	,.
14. S			complet ourse(s		701 011-11-1	2			_ (b	o) Ov	verall lengt	h (ft 8	& in.):				4'-3 1/4"			
				<del></del>		Materia	al	T	Thick	ness	s I	ong.	Joint (Cat. A)		Circu	n. Joint (	(Cat. A, E	3, & C)	Heat Tr	reatment
No.	Cours		oth (ff &	in )	Sı	ec./Grade	or Type	١	Nom.	Cor	rr. Type	Full	, Spot, None	Eff.	Type	Full, Sp	oot, None	Eff.	Temp.	Time
1					SA-240-304			.375	0			None	70	-			<del>  -</del>	-		
2	53"		88 5/8"	$\dashv$		SA-240-304	1/304L		.250	0	SMLS	_	None	70	-		-	<u> </u>		
3	-		-						-	-	1.	<u> </u>	-		_		-		لـــا	
		L			_	(p)					A-240-30									
1J. F	leads:(a)	(H.T Time &	& Temp	)				<del>, ` </del>				ype) (H.T Time & Temp)  Category A								
Location (Top Thickness Radius							Elliptical	1 00	moun			emispherical FI		Conv	e to Pre	oncave	Type		ot, None	Eff.
	Bottom, En	-	Min.	Corr.	Crown	Knuckle	Ratio	Apex	x Angle	e	Radius	<u> </u>	Diameter 26 1/4X52.5		-	-	SMLS		ONE	100
(a)	END	-	.723	0	ud.	-		<b>├</b>		+	<del></del>		26 1/4X52.5 26 1/4X52.5	-			SMLS		ONE	100
(b)	END	$\neg \uparrow$	.723	0	-				-		90	193 P	7 HEX HD BO	LTS 3/	4" (212)		LL			
	ovable, bolts	(descri	fastening)								o., Grade, siz		()							

(Mat'l Spec. No., Grade, size, No.)

16.	MAWP	25		15	psi at max, temp.	250	250	F. Min. de	esign metal temp.	20	'F at	25/FV	psi.
17.	(in Impact test	nternal)	(ext	ernal)	NO PER UH	internal) A-51 (d) AND UCS	(external) S-66(a)			at test ten	 perature	of -	°F.
18	Hydro., pomes	Y MERM	my test nre	ee	(Indicate yes or noa	and the componer pof test	nt(s) impact tested	1)	N/A				_
	Nozzles, insp			-					N/A				
Γ	Purpose (inlet		Diameter	Flange		terial	Nozzle	Thickness	Poinfareau	T		· · · · · · · · · · · · · · · · · · ·	
1	utlet, Drain, e					Flange	Nom.	Corr.	Reinforcement		ttached	Locatio	
F				Туре	Nozzle			+	Material	Nozzle	Flange	(Insp. Op	en.)
<u>_</u>	Inlet		36"	LAPJT	SA-240-304/304L	SA-105		0	NONE	UW16.1	LAPJT	DOME	
_	Drain	1	4"	LAPJT	SA-312-304/304L	SA-105		0	NONE	UW16.1	LAPJT	DOME	:
L	Vent	1	6"	LAPJT	SA-312-304L	SA-105	.280	0	NONE	UW16.1	LAPJT	DOME	:
L	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-		-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	<del>  -</del>	<u> </u>	-	
	.=.	1-	<u> </u>			-		-					$\dashv$
20	Cunnada, Chi			L .	L	1		1			<u> </u>		
20.	Supports: Ski			Lugs —	4 Legs	-	Others	-	Attached		WELDED	TO DOME	
21.	Manufacturer the report: (L N/A	's Partial	es or no) Data Report me of part, if	s properly tem numbe	(No.) identified and signed by er, mfr.'s name and identi	(No.) Commissioned Ins fying number)	spectors have bee	(Describe In furnished		f	(Where a	nd how)	
22	Remarks: Al	l Chall die		2									
LE.	Remarks: Al												
	VESSEL HYD				SITION								
	SAFETY REL	IEF DEV	ICE BY OTH	ER									
	PO# 73338												
10 mm	U Certificate of Date 11/00  I, the undersign of the desired that, to the UIII, Division oversel described.	aned, hold NY depend the best of the best	ding a valid of an essure vesse of my knowle sing this cert is Manufacture.	commission nd employed described dge and be ifficate neith rer's Data F	CER	Expidencials, Inc. (Manufacturer)  TIFICATE OF SI Board of Boiler and MERICA INSUlata Report on as constructed this employer makes a ther the inspector or connected with the second of	HOP INSPECTION Pressure Vessel PRANCE CO. Pressure vessel in any warranty, exprinor his employer si	of  9/00 n accordancessed or imhall be liablessions	and/or the State or Proving Boston Bo	tion essure	105		and
-					(Authorized i	nspector)			Nati Board Incl. endorse	ments, St	ate, Provi	nce and No	).)
				on VIII, Div	are correct and that the fivision 1. U Certificate of	eld assembly con			Expires	esentative	•)		
-					CERTIFICA	TE OF FIELD 4	CCENADI VINC-	FOTION					$\dashv$
	ofofand state that inspected by r	parts ref	erred to as o	nd employed	issued by the National B	, have compare	d the statements in	n this Manu , no	offacturer's Data Report work included in the certificaterssure vessel in accorda	th the des		on, have bee	
					nor his employer makes								1
	described in th	nis Manu	facturer's Da	ta Report. I	rnor his employer makes Furthermore, neither the darising from or connecte	Inspector nor his	employer shall be			ıl			

(Authorized Inspector)

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