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

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1.	Manufactured an	d certifi	ed by _]	ate Meta	lworks, Inc.	255 Happy	y Lane, Roebu (Na	ck,SC 29376 me and address o	f manufacturer)					
2.	Manufactured for	_ <u>C</u>	ognis Co	rporation	<u>, 5051 Este</u>	creek Drive,	Cincinnati, OI	I 45232-1446 and address of pu	rchaser)					
3.	Location of instal	lation	Co	gnis Cor	poration, Ch	arlotte Plant,	, 3300 Westing		•			1) - 100		
4.	Type: <u>Horizon</u>	ıtal		00032	-02				02-00-1			2000		
(Horiz. or vert. tank) (Mfgr's serial No.) 5. The chemical and physical properties of all parts VESSEL CODE. The design, construction, and wo						meet the rec	RN) quirements of m nform to ASME	awing No.) (Nat'l. Bd. No.) (Year built) cations of the ASME BOILER AND PRESSURE tion VIII, Division 1 1998						
	to		Addenda			55					Year	,		
	Addenda (Date)					Code C	Case Nos.	*	al Service per U	Service per UG-120(d)				
6.		hell: SA-240 316L 3/8" Matl. (Spec. No., Grade) Nom. Thk. (in.)				Corr. Allov	ne w. (in.)	4'-6 Diam. I.D.	Length (d	7'-9" Length (overall) (ft. & in.)				
7.		ngle Bi (Welded, ., Lap, B	Dbl.,		pot pot or Full)	85% Eff. (%)	H.T. Temp. (F)	Time (hr)	UW-11(a) R.T. (Spot, or Full)	UW-11(a)5(b) 1 (One) R.T. (Spot, Partial, or Full) No. of Courses				
8.	Heads: (a) Matl				SA-240 316		(b)	Matl.		A-240 316				
		linimum ickness	n Corrosion		. No., Grade) Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	(Spec. N Hemispherical Radius			ide to Pressure		
(2)		3-12-12-12-12	200000000				 			TOTAL VIEW SEC	Concave			
(a)		0.32" 0.32		one			ASME 80/10 ASME 80/10							
()	If removable, bo			Construction	(V25-1);=(V5-1);		NONE					Concave		
									No., Gr., Size, No.)					
9.	MAWP:			15	50/FV		psi at m	ax. temp.		450				
	Min. design met					of at _15	0/FV psi . Hy	dro., pneu., or co	omb. test pressure	Hydrosta	atic	213.5 psi.		
_). Nozzles, inspec	tion and		alve open	ings:		Nom		Reinforcement	How				
(In	Purpose let Outlet, Drain)	No.	Diam. or Size	Ty	/ре	Matl.	Thk		Matl.	Attache	ed	Location		
L	Inlet	1	4"	S	E/LJ	SA312Tp.3	316L 0.23	7"	SA-240 316L	UW16.	1(l)			
L	Water Out	1 1	3"		E/LJ	SA312Tp.3		The second second		. UW16.	1(j)			
L	Solvent Out		4"		E/LJ	SA312Tp.3		100	SA-240 316L	7.7777.6	10			
L	Manway	1	18"	1	-Bolt	SA312Tp.3	316L 0.37	5"	SA-240 316L	UW16.	1(1)	Side		
11	. Supports: Skirt		No	Lugs			Other		dles Atta	ched		n Welded		
12	. Remarks: Manuf	(facturer	Yes or no) 's Partial	Data Repo	(No.) orts properly id	No) dentified and s	o.) signed by Commi	(Descr ssioned Inspect	ibe) ors have been furnis	hed for the fo		nere and how) items of		
the	e report: N/A							**************************************	160 m = 100 m					
11	F		. ,	TTTA 61	(Nar	me of part, item	number, Mfgr's. na	me and identifying	stamp)	40.0		* *		
1)	Exempt from in	npact	est per t	JHA-51.										
						r. +								
=							27.							
the	e ASME Code for	Pressu	e Vessel	s, Section		and that all de "U" Certi	ficate of Authoriz	material, constru	ction, and workman 9906 ex Signed	ship of this ve opires 12/1	2	nform to		
					VIII		CATE OF SHO	P INSPECTION	4.1 1/4					
Ve	essel constructed	bv T	ate Meta	lworks, I	nc.				ane, Roebuck,SC	29376				
						National Boar			Inspectors and/or th		vince o	f		
T	N			_and emp	loyed by	Commerc	cial Union Insu	rance Compan	y Boston, MA		have	e inspected		
	e component desc						9.28	Contract to the second	state that, to the bes					
Ma	anufacturer has co	nstruct	ed this pr	essure ves	sel in accorda	nce with ASM	E Code, Section	VIII, Division 1. E	ly signing this certific	ate neither the	Inspec	ctor nor his		
									urer's Data Report. F					
1			able in an Sigi		or any person	ial injury of pro	AL.		nd arising from or co NB-7436-B. TN-		ins ins	pection.		
08	ate 4/28	,,,,,,	Sig		Authorize	ed Inspector)	262	,	(Nat'l Board incl. endorse		, and No	.)		
·—					-		202				Platcom	10-98E98		

FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET

As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

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. Manufactured a	nd ce			s, Inc. 255 Happy	(Na	me and add	ress of Ma	anufacturer)				
2. Manufactured fo	r	Cognis	Corporation, 505	1 Estecreek Drive,							1145010	
3. Location of insta	llatic	on <u>C</u>	Cognis Corporatio	n, Charlotte Plant, 3		and addres se, Charl		Late Collinaria				
TT:-		.1		Toule	(Na	me and add	ress)		00033 0	12		
. Type: Horiz			t., or sphere)	Tank constate	or, heat exh., etc.)		-		00032-0		11-11-11-11-11	
	10	(HOIIZ., Vei	t., or spriere)			(Mfg's serial No.) 403 200						
-		(CRN)		00032-02-00-1 (Drawing No.)				(Nat'l. Bd. No.)	(Year built)			
. Nozzles, in	spec	Assessed 5	afety valve openings:		,			(14.1.54.710)				
Purpose (Inlet,		Diameter	Flange	Mate	Nozzle Thickne	nickness	kness Reinforcement	How Attached		Location		
Outlet, Drain, etc.)	No.	or Size	Туре	Nozzle	Flange	Nom.	Corr.	Material	Nozzle	Flange	(Insp. Oper	
Cleanout w/B.F.	1	10"	CL 150 SE/LJ	SA312Tp.316L	SA182F 316L	0.365"		SA-240 316L	UW 16.1(l)	Fig.2-4(1)		
Vent	1	4"	CL 150 SE/LJ	SA312Tp.316L	SA182F 316L	0.237"		SA-240 304L	UW 16.1(j)	Fig.2-4(1)		
Relief	1	4"	CL 150 SE/LJ	SA312Tp.316L	SA182F 316L	0.237"		SA-240 304L	UW 16.1(j)	Fig.2-4(1)		
Drain	1.	2"	CL 150 SE/LJ	SA312Tp.316L	SA182F 316L	0.154"		w 1	UW 16.1(j)			
Light	1	2"	Stud Pad	SA240 316L								
Sight Glass	1	4"	Stud Pad	SA240 316L								
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Data Rep Item Nun			7		Remarks	:	and the second				- va nu	
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			Section 1988									
			73-100-100-1		N							
			S					770000000000000000000000000000000000000		22042		
CATALOG CONTRACTOR	-				- 1751 - Ce-	-						
ertificate of Autho	rizati	ion:	Туре <u>U</u>	No. <u>199</u>	06	Expire	s 12/1	00	_ , <u>20</u>	02		
Date 9-28-00 Name Tate Metals				works, Inc. , signed Ray Pay .								
0.1		1	2.5.2	(representative)								
		100		1 7								