## FORM U-DR-1 USER'S DESIGN REQUIREMENTS FOR SINGLE-CHAMBER PRESSURE VESSELS

Owner:	Operator:		stallation: State/ Install					e of	City	City of Installation:							
Service:				Liquid Level: Specific Gravity:								Item No.:					
Diameter:				Length, Tangent-to-Tangent:						Type: Vertical Horizontal Sphere							
National Board Canadian Registration Required: Yes No Yes No				Special Service: Lethal (L) D Unfired Steam Boile				Pirect Firing (DF)				Overpressure Protection:  Valve Rupture Disk Other System Design					
OPERATING CONDITIONS:				Minimum Pressure				Maximum Pressure				Minimum Temperature Maximum Temperature					
Case 1																	
Case 2												Townson					
DESIGN CONDITIONS:			Pressure							Temperature							
Internal Design Pressure External Design Pressure																	
MAWP Internal:	· .		Same as Design Pressure							Calculated by Manufacturer:							
MAWP External:			Same as Design Pressure								Calculated by Manufacturer:						
Minimum Design Metal	Temperature		Carrio						Due to: Process Other								
(MDMT) – Case 1	Temperature		Deg @										· ·	ent Temperature		<u> </u>	
Minimum Design Metal Temperature (MDMT) – Case 2			Deg @							Due to: Process Other Ambient Temperature				]			
Corrosion Allowance:	Shell	He	ads	N	lozzles		Jacket		Coil		Supports		Internals			Corrosive Service?	
	Int. Ext.	Int.	Ext.	Int	. Ext.	Int	t. E	xt.	Int.	Ex	ct.	Int. Ext.			Ye		No
																]	
Cyclic Service: Yes	No 🗌		_ Cycle:	s per	·	De	sign L	ife _		year	s	Fatigue Ana	lysis?	Yes [	No		
Wind Loading: ASCE 7 Wi UBC IBC Other None			nd Spee	sification Exposure tegory Category													
Seismic Loading: ASCE 7 Soil F UBC IBC Other None			rofile C	PWHT: Per Code Process Required				Other Loadings per UG-22: Temp. Gradients Deflagration Diff. Thermal Exp.									
2,			nal ıal	Density ———				Coating Specification  Permitted Prior to Pressure Test  Yes  No  \[ \Backslash									
Vessel Support: Legs			Saddle	Fireproofing: Yes  No			Type: Rating (hr):										
					MAT	ERI/	ALS										
Component Specification								Component				Specification					
Shell						Ellipsoidal Head											
Hemispherical Head	E				Torispherical Head												
Toriconical Head					Conical Head												
Nozzles					Flanges												
Stiffener Rings				Pressure-Retaining Bolts				s									
Attachments								Internals									
Reinforcing Pads								Other									
				NOZZI E				SCHEDULE									
Description	Number	Size	Flan	an l	Class		scripti					Number	Size	Fla	nge	Cla	
Description	Required	0120	Тур	٠,	Class	DU	Scripti	OII				Required	0120		pe	Cia	133

## FORM U-DR-1 (Back)

WELDED PRESSURE JOINT REQUIREMENTS									
			ND CONE THICKNESS BASED ON: FICIENCY <i>E</i> =		HEAD THICKNESS BASED ON:  JOINT EFFICIENCY E =				
JOINT LOCATION UW-3			TYPE OF JOINT (Use Types as Described in UW-12)		NDE WITH COMMENTS				
Category A									
Category B	Head-to-	-Shell							
Other									
Category C	Category C Body Flanges								
	Nozzle Flanges								
Category D									
			BODY FLANGE REQUIREMENTS	3					
Description	Description		Facing/Surface Finish	Gask	et Style	Joint Assembly (See ASME PCC-1)			
SKETCH									
GENERAL NOTES									
CERTIFICATION									
We certify that the statements made in this form are accurate and represent all details of design as per the user or his designated agent [see Nonmandatory Appendix NN]									
Date:									
User:					_				
Signed:									
		(Re	epresentative)		-				
Registration Identification:(Optional)						tration Soal (Ontional)			
l					L negis	tration Seal (Optional)			