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

Owner:	Operator:		stallation: State/F					of	City	City of Installation:							
Service:				Liquid Level: Specific Gravity:								Item No.:					
Diameter (in.):				Length, Tangent-to-Tangent:							Type: Vertical Horizontal Sphere						
National Board Canadian Registration Required: Yes No Yes No				Special Service: Lethal (L) Dir Unfired Steam Boiler				irect Firing (DF)				Overpressure Protection: Valve Rupture Disk Other System Design					
OPERATING CONDITION	IS:		Minii	Pressure	e Maximum Pressure				re	Minimum Temperature Maximum Temperature							
Case 1																	
Case 2																	
DESIGN CONDITIONS:			Pressure							Temperature							
Internal Design Pressure																	
External Design Pressure	9:									_							
MAWP Internal: MAWP External:				Same as Design Pressure Same as Design Pressure						Calculated by Manufacturer: Calculated by Manufacturer:							
	Tomporaturo		Same	Deg @	ssure []					Due to: Process Other							
Minimum Design Metal (MDMT) – Case 1	remperature		Deg @							Ambient Temperature							
Minimum Design Metal Temperature (MDMT) – Case 2			Deg @							Due to: Process Other Ambient Temperature							
Corrosion Allowance:	Shell	He	ads	N	lozzles		Jacket		C	oil		Supports Internals		rnals	Corrosive Service?		
	Int. Ext.	Int.	Ext.	Int	. Ext.	Int	t. E	xt.	Int.	Ex	t.	Int. Ext.			Ye		No.
Cyclic Service: Yes	No 🗌		_ Cycle:		_			ife _	\	/ears	s I	Fatigue Ana	llysis?	Yes [No		
Wind Loading: ASCE 7 Wi UBC IBC Wone			nd Spee	sification Exposure tegory Category													
Seismic Loading: ASCE 7 Soil FUBC IBC Other None			rofile C	PWHT: Per Code Process Required [Other Loadings per UG-22: Temp. Gradients Deflagration Diff. Thermal Exp.									
			nal ıal	Density					Coating Specification Permitted Prior to Pressure Test Yes No \[\Backslash								
Vessel Support: Legs Skirt Lugs			Saddle	Fireproofing: Yes No			-	Type: Rating (hr):									
					MATI	ERI/	ALS										
Component Specification								Component				Specification					
Shell				Ellipsoidal Head													
Hemispherical Head	ead				Torispherical Head												
Toriconical Head	l Head					Conical Head											
Nozzles					Flanges												
Stiffener Rings						Pressure Retaining Bolts				Bolts							
Attachments								Internals									
Reinforcing Pads								Other			_						
NOZZLE SCHEDULE																	
Description	Number Required	Size	Flan Typ	٠,	Class		scripti					Number Required	Size		nge /pe	Cla	ass

FORM U-DR-1 (Back)

WELDED PRESSURE JOINT REQUIREMENTS										
I I			ID CONE THICKNESS BASED FICIENCY <i>E</i> =	O ON:		HEAD THICKNESS BASED ON: JOINT EFFICIENCY E =				
JOINT LOCATION UW-3			TYPE OF JOIN (Use Types as Described		NDE WITH COMMENTS					
Category A										
Category B	Head-to-	Shell								
	Other									
Category C	tegory C Body Flanges									
	Nozzle Flanges									
Category D										
			BODY FLANGE REQU	JIREMENTS						
Description		Туре	Facing/Surface	Facing/Surface Finish		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 U-2(a), Footnote 4]										
Date:										
User:										
Signed:										
(Representative)										
Registration Identifica	ation:									
			(Optional)			Regist	ration Seal (Optional)			