FORM U-DR-2 USER'S DESIGN REQUIREMENTS FOR MULTI-CHAMBER PRESSURE VESSELS

Owner:	Opei		Country of In				allation:	- 1	State/Province Installation:			ce of			City of Installation:				
Service:					l Leve fic Gr			amber 1 Chamb amber 1 Chamb							Item	Item No.:			
Diameter:					Shell Length, Tangent-to-Tange					·			ype: Jacket Internal Coil Shell and Tube						
National Board	Canadian	1		Speci	al Se	rvice:						Overpressure Protection:							
Registration Required:	Registrat	ion Req	quired:	Letha			ire	ect Firing (D	OF)	П		Valv	_	_	ıpture [
Yes No	Yes 🗌	No		1		eam Boile			•			Other System Design							
OPERATING CONDITIONS:					mum	Pressure	:					Minimum Temperature				- 🗀			
Chamber 1 – Case 1																			
Chamber 2 – Case 1																			
Chamber 1 – Case 2																			
Chamber 2 – Case 2																			
DESIGN CONDITIONS:				Cha				mber 1					Chamber 2						
Internal Design Pressure				@								@							
External Design Pressur	e:					@						@							
MAWP Internal:				Same as Design Pressure:				Calculated by Manufacturer:				Same as Design Pressure:			Calculated by Manufacturer:				
MAWP External:				Same as Design				Calculated by Manufacturer:				Same as Design				Calculated by Manufacturer:			
Minimum Design Metal Temperature				@				Wallufacturer.				Due to: Process				Other _			
(MDMT) – Case 1															ent Temperature				
_	Minimum Design Metal Temperature					@						Due	Proce						
· · · · · · · · · · · · · · · · · · ·	(MDMT) – Case 2						\perp								Temperature Tubes				
Corrosion Allowance:	Sh		Hea		_	lozzles	١.	Jacket		Со				ports					ubes
Corrosive Service?	Int.	Ext.	Int.	Ext.	Int.	. Ext.		Int. Ext.	+	Int.	Ex	α.	Int.	Ext.	SS		TS	Int.	Ext.
Yes No Cyclic Service: Yes	No 🗆			Cyclo	c por		-	Design Life			225		Eatia	<u> </u>	lycic?	Yes	\vdash	No	
				_ Cycles per				Design Life years											
Wind Loading: ASCE 7 Wi UBC IBC Store Other None							egory Category												
Seismic Loading: ASCE 7 Soil P			Profile Classification:				PWHT:				Other Loadings per UG-22:								
UBC IBC							Per Code			Temp. Gradients Deflagration									
Other None								Process Required			Diff. Thermal Exp.								
Insulated: Yes No Type:				Thickn				ess Density				Coating Specification:							
			nber 1							Permitted Prior to Pressure Test									
			Cham	ber 2			_	-			_		Ye	s 📙	No 🗌				
Vessel Support: Legs [Skirt	Lu	ugs 🗌	Saddle	es 🗌		Ι.	Fireproofin	٠.		'	Туре	:			Rati	ing (h	r):	
							_		No) 📙									
						MAT	_	RIALS											
Component	Specif	ication	1					Component				Specification							
Shell						Ellipsoidal Head													
Hemispherical Head							Torispherical Head												
Toriconical Head					Conical Head														
Nozzles						Flanges													
Stiffener Rings						Pressure Retainii				ning B	olts	lts							
Attachments						Internals													
Reinforcing Pads							-	Coil											
Jacket							Т	Tubes			\perp								
Tubesheet							C	Other											
NOZZLE SCHEDULE																			
Description Number Size				Flange Class				Description				Num		Size	T	Flang		Class	
	Requi	red		Тур	ре								Requ	ired			Тур	e	
																\perp		_	
				1	\perp							\perp				\perp		_	
												_				+		\perp	
I	1						1												

FORM U-DR-2 (Back)

			W	ELDED PRESSURE JOINT REQUIRE	MENTS						
				NE THICKNESS BASED ON:		DISHED HEAD THICKNESS BASED ON: JOINT EFFICIENCY <i>E</i> =					
JOINT LOCATION UW-3			(1	TYPE OF JOINT Use Types as Described in UW-12)		NDE WITH COMMENTS					
Category A											
Category B Head-to-Shell											
	Other										
Category C Body Flanges		nges									
Nozzle F Tubeshe		Flanges									
		ets									
Category D											
	BODY FLANGE REQUIREMENTS										
Description		Туре		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:											
		-									
Registration Identifica	ntion:										
			(Option	nai)		Regist	ration Seal (Optional)				