FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
(Alternative Form for Single-Chamber, Completely Shop- or Field-Fabricated Vessels Only)
As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. [Manufactured and certified by																
Melco Steel, Inc. 1100 VV. FOOtnill Blvd., Azusa, CA 91702 (Name and address of Manufacturer)																	
2. 1	Manufact	ured for				Ac	uaHydrex			oxelder S			e, CO 800	27	1004		
								(IVAII)	ie and	Unkno		seri					
3. I	ocation o	of install	lation _						((Name and		5)					
4 7	vne	Horiz	ontal		4474	erial number)	n/a		4	1474-01-\	/, Rev	2	1	617		<u> </u>	2020
	(Ho	rizontal or	vertical, ta	nk) (Mar	ufacturer's s	erial number)	(CRN)			(Drawing r	number)	(National E	Board numb	er)	((ear built)
5. /	5. ASME Code, Section VIII, Div. 1 2019 - No Addenda n/a n/a n/a [Special service per LIG-120(d)]																
[collina and Addenda, in applicable (date)]																	
6. 5	Shell		SA 240 3					O" Corr. allow.	2' - 8" (Inner diamete			3' - 7" (Length (overall))					
_		(Material	spec. num	ber, grade	(Ni	ominal thickness					(inne	er diameter	,			(Cengin (ov	erany
Body Flanges on Shells Bolting																	
No.	Type	ID	OD	Flange Th	k Min Hub T	hk Mater	ial	How Attac	hed	Location	Nun	n & Size	Bolting Ma	terial		sher ID, thk)	Washer Material
n/a	n/a	n/a	n/a	n/a	n/a		n/a n/a			n/a	n/a		n/a		n/a		n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	_	n/a		n/a	-	n/a	n/a		n/a		n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a		n/a		n/a			n/a		n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a		n/a		n/a		n/a	n/a		n/a		n/a
7.	Seams _	Long. (wel	Type 1 ded, dbl., s		utt)] [R.T. (s		0.85 (ff., %) (l	I.T. temp.)	(Ti		iirth (we	Type elded, dbl.,	sngl., lap, bu		pot (spot	0.85 (Eff., %)	(No. of courses)
						SA 240 304								or SA 240	full)]		
8.	Heads: (a	i) Materi	aı	- 50015 500	(Sp	ec. no., grade)			- (1	o) Materi	aı —		(Spec. no., grade)				
		on (Top,		imum	Corrosion	on Crown Knuckle Elliptical			0.00	Conical Hemisp					o Pressure		
	-	n, Ends)	-	kness	Allowance	Radius	Radius	Rati	12513	Apex Angle Radii				er		or Concave)	
(a)		nd	_	43"	0"	n/a	n/a	n/a 2:1		n/a			n/a	n/a	-	Concave	
(b)	1	nd	0.	43"	0	n/a	n/a	2.1	-	n/a			n/a	n/a	1		Officave
			_				Body	Flanges o	n Hea	ds				6.1			
								411				- 12		Bolti	-	asher	Γ
(a)	Location	Туре	ID	OD		k Min Hub Thk	Mater		How			n/a Bolting		aterial		ID, thk)	Washer Material
	n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a			n/a n/a	n/a		n/a n/a			n/a n/a	n/a n/a
(b)	n/a	-	440 psi	11/a	II/a	14.7 psi				0.4012.1		350 1				350 °F	
	MAWP _	-	(Internal)			(External)		at max	c. ten	np.		(Internal	Charles and the same			(Externa	
	Min. desi	gn meta	l temp.	11 °	Fat	440 psi	Hyd	dro., pne	u., o	r comb.	test p	ressure			615	5 psi	
	Proof test	n	ı/a														
10. Nozzles, inspection, and safety valve openings:																	
	Purpose		\top	$\overline{}$	T		Material		IN	lozzle Thick	ness	223345	ere a very	Attachm	ent D	etails	aparategori
(Inlet, Outlet, Drain, etc.)		No.	No. Diameter or Size		Туре	T T				Nom. Corr.		Reinforcement Material		Attachment Details Nozzle Flange			Location (Insp. Open.)
Misc.		2		1/2"	CPLG	SA 105	_	n/a		000#	0"	n/a		16.1 bb	\top	n/a	Shell
		1	1	1/2"	CPLG	SA 182 304		n/a		000#	0"	n/a		16.1 z-2		n/a	Head
Misc.		1		12"	CI 600	SA 106B	S	SA 105		.500"	0"	n/a		16.1	(CATIC	Head
n/a		n/	a i	n/a	n/a	n/a		n/a	_	n/a	n/a	n/	a	n/a	_	n/a	n/a
n/a		n/	a ı	n/a	n/a	n/a		n/a	_		n/a	n/		n/a	1	n/a	n/a
n/a		n/		n/a	n/a	n/a		n/a	-	_	n/a	n/		n/a	-	n/a	n/a
												n/a					
11. Supports: Skirt No (Yes or no) Lugs 0 Legs 0 Other Two Saddles Attached Welded-Shell (Where and how) 12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following																	
				rantial L	ата керог	is properly i	dentified	and sign		ee Form I		ieu insp	ectors na	ve been 1	urni	sileu for	ine rollowing
1	tems of t	ne repor			(Name of part, ite	m number, N	lanufacture	0.771			stamp)		*	-		
		2112					444 (1107) (1107)					and the second second	, V. 14				

FORM U-1A

Page_	2	_of _	2_	_
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Manufactured by			neste milita je je kim oseni.	- 310 - 310		
Manufacturer's Serial No	4474	CRN	n/a	Nat	ional Board No	1617
	С	ERTIFICATE OF	SHOP/FIELD	COMPLIANC	E	
We certify that the statements ma conform to the ASME BOILER AND expiresMarch 23, 2022				-		
Date 10/29/20 Co. name	Melco Steel, Inc. (Manufacturer)			Sign	ed Mans	Presentative)
	C	ERTIFICATE OF	SHOP/FIELD	INSPECTION	li de la companya de	
Vessel constructed by	Melco S	Steel, Inc.		_ at	1100 W. Foothill Blvd.,	Azusa, CA 91702
I, the undersigned, holding a v	alid commission i SH - CA	ssued by the N	lational Boar		State of Californ	
have inspected the component of to the best of my knowledge and VESSEL CODE, Section VIII, Divisional of the pressure shall be liable in any manner for a Date 12-2-2027 Signed	belief, the Manufac sion 1. By signing e vessel described any personal-injury	turer has const his certificate r in this Manufac	ructed this pr neither the Ins turer's Data I nage or a loss	essure vesse spector nor h Report, Furth	nis/her employer makes hermore, neither the Ins arising from or connecte	any warranty, expressed or pector nor his/her employer

(07/17)

2/2

FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1	Manufactured and cert	ified by	Melco Steel, Inc. 1100 W. Foothill Blvd., Azusa, CA 91702								
	Manufactured and core	med by									
				nd address of Man							
2	Manufactured for		AquaHydrex, Inc. 1797 Box	xelder Street, L	ouisville, CO 80027						
۷.	Manufactured for		(Name and addr	ess of Purchaser)		374					
3.	Location of installation			Inknown							
				e and address)							
4.	Туре	Horizontal	Autoclave Vess	10.000 pg 10.00	(Manufacturer's serial number)						
		ntal, vertical, or sphere)	(Tank, separator, heat e	exch., etc.)							
	n/a		4474-01-V Rev. 2		1617 (National Board number)	2020 (Year built)					
	(CRN)		(Drawing number)		(National Board Humber)	(Teal built)					
	Data Report Item Number		R	emarks							
-	12	The Harris Quick Opening Door Shell Extension and Head Extension (SA 240 304) long seams were having 100% radiographed and liquid									
		penetrant inspected.	11.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12								
	12	The Harris Quick Opening	Door Locking Ring (SA 516 Gr70 MT) long	seam was having	g 100% radiographed inspected and	have been stress					
		relieved at 1125°F for 3 hours.									
	12	Autoclave furnished with I	farris Quick Opening Door (SA 240 304 & S	SA 516 Gr 70 MT).						
	12	Misc. brackets are (SA 36).								
	12	Safety device per UG-52.2	2.								
	12	Loading per UG-22 (c)-(h)				5-92					
	12	Impact test exempt per UC	CS-66b & UHA-51d.		, 100 mm						
	12	12 Safety Relief Valve by others.									
	_	7-									
				42							
			40.00								
_		3									
		: 				-11010					
		1 100									
_		0.									
_											
_		S 			70.	<u> </u>					
Cer	tificate of Authorization:	Type	No 11,143	Expires	3/23/2022	2					
					. ^-						
Dat	te 10/29/20 Nam	e	Melco Steel, Inc. (Manufacturer)	s	igned Many (Repres	entative)					
			$\sqrt{ \alpha }$		120211/1	1 7 4 5					
Dat	e 10-29-2020 Name	e	utho ized Inspector)	Commissions	National Board Authorized Inspector	or Commission number)					
		5	1								