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

| Melco Steel, Inc. | | | | | | | | | | | | | | | | | |
|--|---|----------------------|-----------------|-----------------|---------------------|------------------|-------------------|-------------------------------|----------|-----------------------|-------------------------|-------------------------|----------------|-------------------------|---|---------------------|--|
| Manufactured and certified by Melco Steel, Inc. 1100 W. Foothill Blvd., Azusa, CA 91702 | | | | | | | | | | | | | | | | | |
| | Melco Steel, Inc. 1100 W. Footniii Bivd., Azusa, CA 91702 (Name and address of Manufacturer) | | | | | | | | | | | | | | | | |
| 2 1 | Manufactured for AquaHydrex, Inc. 1797 Boxelder Street, Louisville, CO 80027 | | | | | | | | | | | | | | | | |
| 2. 1 | (Name and address of Purchaser) | | | | | | | | | | | | | | | | |
| 3. L | Location of installation(Name and address) | | | | | | | | | | | | | | | | |
| (Name and address) | | | | | | | | | | 2021 | | | | | | | |
| 4. T | 4. Type Horizontal (Horizontal or vertical, tank) | | | | ufacturer's s | erial number) | | (CRN) | | (Drawing number) | | (National Board number) | | r) | (Year built) | | |
| | | | | | | 2010 No Addondo | | | | n/a | | | | | | | |
| 5. ASME Code, Section VIII, Div. 1 [Edition and Addenda, if applicable (date)] (Code Case number) [Special service | | | | | | | | | | | n/a ecial service pe | r UG-120(d)] | | | | | |
| | 'hall | S | A 516 C | Gr70 | | 7/8" | | 0" | | 4' - 6" | | | | | 5' - | 0" | |
| 6. Shell (Material spec | | | | nber, grade) | (Nominal thickness) | |) | (Corr. allow.) | | (Inner diamete | | | r) [Lengti | | | overall)] | |
| Body Flanges on Shells | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | ⊢ | | | Bolting | Washer | | |
| No. | Туре | ID | OD | Flange Th | k Min Hub 1 | Thk Mater | rial | How Atta | ched | Location | Nun | n & Size | Bolting Ma | terial (| OD, 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 | 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 | |
| | Seams _ | | Туре | 1 | | spot | 0.85 | n/a | | n/a | | Туре | | sp | | | |
| 0207 | ı | Long. (wel | ded, dbl., | sngl., lap, b | utt)] [R.T. (s | (Epot or full) | Eff., %) | (H.T. temp. |) (T | lme, hr) [G | iirth (we | elded, dbl., | sngl., lap, bi | utt)] [R.T. (or fo | | %) (No. of courses) | |
| 8. | Heads: (a |) Materi | al | | | A 516 Gr70 | | | _ (| b) Materi | al | | | SA 516 G | Sr70 | | |
| | | | | | | pec. no., grade) | | | | | | | | (Spec. no., grade) | | | |
| | 1,500,000,000 | on (Top, n, Ends) | 10000000 | nimum ckness | Corrosion | Crown | Knuckle Radius | Knuckle Ellipti Radius Rat | | Conical Apex Angle | | Hemispherical Radius | | Flat Diameter | Side to Pressure (Convex or Concave) | | |
| (a) | End | | _ | .75" | 0" | n/a n/ | | | | - | n/a | | n/a | | n/a Concave | | |
| (b) | | | - | .75" | 0" | n/a n/a | | 2:1 | | n/a | | | n/a n/a | | | Concave | |
| | | | | | | | D. 1 | F1 | | | 2211771 | | | | | | |
| | | Т | 1 | | T- | T 1 | Воа | y Flanges (| n Hea | ads | | | | Boltin | 9 | | |
| 8 | Location | Туре | ID | OD | Flange Th | nk Min Hub Thk | Mat | Material Hov | | v Attached Num | | n & Size Bolting Mat | | Washer (OD, ID, thk) | | Washer Material | |
| (a) | n/a | n/a | n/a | n/a | n/a | n/a | | /a | | n/a | | n/a | n/a | | n/a | n/a | |
| (b) | n/a | n/a | n/a | n/a | n/a | n/a | n | /a | | n/a | | n/a | n/a | | n/a | n/a | |
| 9. | MAWP _ | | 500 psi | | | 14.7 psi | Salley (O) (1-1) | at ma | x. ter | mp. | | 200 | | | 200 | | |
| | | | (Internal) | 2 % | | (External) | | | | | | (Internal |) | | (Exter | nal) | |
| | Min. desi | gn meta | l temp. | 2 °1 | at | 500 psi | Hy | /dro., pn | eu., c | or comb. | test p | ressure | - | | 030 psi | | |
| | Proof test | r | ı/a | | | | | | | | | | | | | | |
| 10. | Nozzles, i | inspection | on, and | safety va | lve open | ings: | | | | | | | | | | | |
| | Purpose | - I | Di | ameter | | Material | | | | Nozzle Thickness | | | Reinforcement | | ent Details | Location | |
| (Inlet, Outlet, Drain, etc.) | | N | | r Size | Туре | Nozzle | | Flange | | Nom. Cor | | Material | | Nozzle | Flange | (Insp. Open.) | |
| | Misc. | 2 | | 1/2" | CPLG | SA 105 | | n/a | - 3 | 3000# | 0" | n/ | 'a | 16.1 y-2 | n/a | Shell | |
| Misc. | | 1 | | 24" | CI 600 | SA 106B | _ | SA 105 | | 0.969" | 0" | | | 16.1 h | CATC | Head | |
| Misc. | | n/ | _ | n/a n/a | | n/a | | n/a | | | n/a | | | n/a | n/a | n/a | |
| n/a | | n/ | _ | 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/ | | n/a | n/a n/a | n/a n/a | _ | n/a n/a | + | | n/a n/a | | a /a | n/a | n/a | n/a | |
| n/a n/a | | n/ | _ | n/a n/a | | n/a | | n/a | + | | n/a | | a l | n/a | n/a | n/a | |
| | | | | | n/a | | | | | | | | | | | | |
| 11. | Supports | : Skirt _ | No Yes or no | _ Lugs | (Number) | Legs | O C | ther | Tv | VO Saddle | S | _ Attac | hed | | Welded- She | 1 | |
| 11. Supports: Skirt No (Yes or no) Lugs 0 Legs 0 Other Two Saddles Attached Welded-Shell (Number) (Describe) (Where and how) 12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following | | | | | | | | | | | | | | | | | |
| items of the report: Autoclave furnished with Harris Quick Opening Door(SA 266 Gr. 4 & SA 516 Gr70). Safety device per UG-35.2. Loadings per | | | | | | | | | | | | | | | | | |
| (Name of part, item number, Manufacturer's name and identifying stamp) UG-22 (c)-(h) by others. Impact test exempt per UCS-66b. Safety Relief Valve by others. Misc. Brackets are SA 36. Autoclave Vessel. | | | | | | | | | | | | | | | | | |
| - | | · | JG-22 (c | -(h) by oth | ers. Impact | test exempt pe | r UCS-66b | . Safety F | Relief \ | Valve by ot | hers. N | lisc, Brack | kets are SA | 36. Autocla | ive Vessel. | | |
| (07/1 | 7) | | | | | | | | | | | | | | | | |

FORM U-1A

| Manufactured by Melco Steel, Inc. | | | | | | | | | |
|---|--|---|---|---|---|---|--|--|--|
| Manufacturer's Serial No | 4484 | CRN | n/a | Nation | al Board No | 1623 | | | |
| | | | | | | 11 | | | |
| | 100.00 | CERTIFICATE OF | SHOP/FIELD CO | MPLIANCE | | | | | |
| We certify that the statements conform to the ASME BOILER A expires March 23, 2022 | | | | | | | o of this vessel | | |
| Date 4/20/21 Co. nan | ne | Melco Steel, Ir (Manufacturer) | nc. | Signed | _ slom | (Representative) | Zen | | |
| | | CERTIFICATE O | F SHOP/FIELD INS | SPECTION | | | | | |
| Vessel constructed by | Mel | co Steel, Inc. | | at1 | 100 W. Foothill Blv | d., Azusa, CA 9 | 1702 . | | |
| I, the undersigned, holding | a valid commissio | on issued by the | National Board | of Boiler and | Pressure Vessel State of Califo | | employed by | | |
| have inspected the componer to the best of my knowledge a VESSEL CODE, Section VIII, D implied, concerning the press shall be liable in any manner for Date APLIL W.W.USigned | and belief, the Man division 1. By signi sure vessel describ or any personal in | ufacturer has cons ng this certificate sed in this Manufa | structed this press neither the Inspe acturer's Data Rep mage or a loss of | sure vessel in ector nor his/ port. Further | her employer mak more, neither the l | ASME BOILER As any warrant in spector nor his cited with this in the same as a second | y, expressed or s/her employer spection. | | |

(07/17)