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

| | | | | | | | | | | | | |
|---|--|---|-----------------------------|----------------------|-------------------------|--|-----------------------------|--------------------------------|------------------------|--------------------------------|---------------------------------|--|
| 1. | Manufactured and | certities | d by: | ARR | OW TANK AND | TANK AND ENGINEERING COMPANY 650 NORTH EMERSON CAMBRIDGE, MINNESOTA 55008 (Name and address of manufacturer) | | | | | | |
| • | nufactured for: | UOPI | LC, c/o HO | NEYWELL INTL, | P.O. BOX 98176 | 62,EL PASO, TX 79 | 1998-1762 | 38 Of Higherdoor | л) | | - | |
| 3. | Location of Installa | itlon: | | | | | and address of | | | | | |
| 4. | Туре | Vert. | | 41245 | | V2602.2 | Name and addre D 18363-1 | , | 38373 | | 2011 | |
| 5. | (Horiz. o | or vert. | tank) | (Mfgr's serial | (Migr's serial No.) | | (Drawin | g no.) | (Net'l Bd. No.) |) | (Year built) | |
| U. | VESSEL CODE. | cal and physical properties of all parts meet the requirements of material specifications of the As ODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 | | | | | vision 1 | 2 | 2004 | | | |
| | to | | 06 Addenda | | | | | | · <u> </u> | | /ear | |
| 6. | Shell: | SA- | lenda (Date) -516 Gr70 N | | 2" | | Case Nos. 1/16" | | 11'-6" ID | pecial Service per | 22'-9`1/2" | |
| 7. | M. Seams: | Aatl. (Spe 1 | oec. No., Gra | ede) FULL | Nom. Thk 100 | k. (in.) 1100 | Corr. Allow. 145MIN, | . (in.) Die 1 | am. I. D. (ft. & in.) |) Leng FULL 100% | ngth (overall) (ft. & ln.) 3 | |
| | Long. (| (Welded Lep, But | | R. T. (Spot or Full) | l) Eff. (%) | H. T. Temp (°F) | Time (hr) | Girth (welded Sngl., Lap, | d, Dbl., R. 1 Butt) | T. (Spot, Partial, or Full) | No. of Courses | |
| ъ. | /1680s: (a) mau. | | | | 16 Gr70N No., Grade) | | (b) Matl. | · | | 516 Gr70N , No., Grade) | | |
| | Location (Top, | | Minimum | Corrosion | Crown | Knuckle | Elliptical | Conical | Hemispherical | Flat | Side To Pressure | |
| Ļ | Bottom, Ends) | | hickness | Allowance | Radius | Radius | Ratlo | Apex Angle | Redius | Dlameter | (Convex or Concave) | |
| (a) | TOP | | 2.645 | 1/16" | - | | 2:1 | - | | - | CONCAVE | |
| (b) | | | 2.645 | 1/16" | <u> </u> | | 2:1 | <u> </u> | <u> </u> | •. | CONCAVE | |
| ١ | If removable, bolts | used (o | Jescribe otn | er fastenings) — | | | (hAc | No Ge | -: A1- \ | | | |
| 9. | MAWP | | | 500 | _ | P | Ma) pal. at max. ten | atl., Spec. No., Gr., mp. | , Size, No.) | 250 | " F | |
| | Min. design metal | | | -49 | | °F at 500 | psi. Hydrò. | ., pneu., or comb. | . test pressure | 73 | 35 psl. | |
| <u>،10</u> | Nozzies, inspectio | and s | safety valve Diam. | | 1 | • • | Nom. | Poin | * | Lines | | |
| CH | Purpose Inlet, Outlet, Drain) | No. | | | | Mad. | | | nforcement Mati. | How Attached | Location | |
| ` | Manway | 1 | 24" | Type WNF/RF | SA-3 | SA-350 Gr LF2 CL2 | | | NONE | | HEAD | |
| | INLET | 1 | 20* | WNF/RF | | 350 Gr LF2 CL2 | 4.75" | | NONE | | | |
| | OUTLET | 1 | 1 10" WNE | | SA-333Gr 6 | | SCH XS | | NONE | | *** | |
| | _ | · | <u> </u> | | 1 | • | | | - | | | |
| • | | - | <u> </u> | · | | • | | | • | | - | |
| | ···· | ' | <u> </u> | | Ţ | - | · | | • | | | |
| <u> </u> | <u>.</u> | | | | | • | | | • | - | • | |
| _ | Supports: Skirt | ىئا | | • | | - | | Other | | 1907 | TIDED TO UEAD | |
| 71. | Supports: Grant " | <u></u> | YES es or no) | Lugs | - L | -egs - (No.) | Other - | (Describ | he) Attac | | ELDED TO HEAD Where and how) | |
| 12. | . Remarks: Manufac | cturer's | Partial Date | a Reports propert | ly identified and | signed by Commis | ssioned inspec | tors have been fur | nished for the foll | owing items of th | Where and how) he report: | |
| NONE | | | | | | | | | | | | |
| (Name of part, Item number, Mfgr's name and Identifying stamp) CHARPY IMPACT (HEADS, SHELLS, SKIRT, BASE PL., BASE ANCHOR TOP & GUSSET. (*** 10" WNF/RF SA-350 LF2 CL1 & 10" PIPE SCH XS SA-333-6 & 10" SCH XS ELBOW | | | | | | | | | | | | |
| SA 420-WPL6 IS ATTACHED TO A SPECIAL 24" BF/RF 4 3/4" THK. W/ 9 3/4" BORE SA-350 LF2 CL1) TAG# 206VC-501K & SERIAL # STAMPED ON FLG. UOP P.O.# 4500245274 UOP JOB# 945597 ATE JOB# 18363-18 ATE REWORK # 22148-18 | | | | | | | | | | | | |
| UŲ | 2 P.U.# 450024021 | /4 UUF |) JOB# 840: | 597 | | | TE REWORK # | | | | | |
| V th | CERTIFICATE OF SHOP COMPLIANCE We cartify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorization No. 10676 peoples 12/31/12 | | | | | | | | | | | |
| D | Date 02/03/11 Co. name ARROW TANK AND ENGINEERING COMPANY Signed (Manufacture) | | | | | | | | | | | |
| (Manufacturer) (Degresentative) CERTIFICATE OF SHOP INSPECTION | | | | | | | | | | | | |
| V | essel constructed t | by AR' | ROW TANK | AND ENGINEER | | | | I TION North Emerson | N CAMBRIDGE, | MINNESOTA 55 | 5008 . | |
| | , the undersigned | | | | | | | | | | | |
| MN and employed by Hartford Steam Boller Insp. & Ins. Co. of CT have inspected | | | | | | | | | | | | |
| the component described in this Manufacturer's Data Report on 02/03/11 , and state that, to the best of my knowledge and belief, the | | | | | | | | | | | | |
| Inufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the inspector nor his player makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the inspector his employer shall be liable in any manner for any personal Migury of property damage or a loss of any kind arising from or connected with this inspection. Date 02/03/11 Signed Commissions NB# 11620 A,B MN # 088456 | | | | | | | | | | | | |
| (Authorized Inspector) (Nat'l Board, (Incl. endorsements) State, Prov. and No.) | | | | | | | | | | | | |