

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 CODE RULES, SECTION VIII, DIVISION 1

1. Manufactured and certified by: AXH air-coolers, LLC - 401 EAST LOWRY ROAD - CLAREMORE, OKLAHOMA 74017
(Name and address of manufacturer)

2. Manufactured for: CENTERPOINT ENERGY GAS TRANSMISSION - P.O. BOX 4455 - HOUSTON, TEXAS 77210

3. Location of installation: UNKNOWN
(Name and address)

4. Type HORZ. H. EXCHANGER 90045F.1 NONE 90045 AC R0 13634 2009
(Horiz. Or vert. tank) (Mfg's serial No.) (CRN) (Drawing No.) (Nat'l Bd. No.) (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL
CODE. The design, construction and workmanship conform to ASME Rules, Section VIII, Division 1. 2007 EDITION

to: 2008a
Addenda (Date) Code Case Nos. Special Service per UG-120 (d)

6. Shell: TUBE/PLUG: SA 516-70N FR & BK 1 3/4" .125 FR & BK 0' 11 1/2" 11'-11 7/8"
Mat'l (Spec. No., Grade) Nom. Thk (in.) Corr. Allow (in.) (Inner diameter) Length (overall)

7. Seams: CORNER JOINT SEE REMARKS 1.0 1150° 1 3/4 - - - *2
(Long. welded, dbl. R.T. (Spot or Full) Eff. (%) H.T. Temp (F) Time (hr.) Girth (Welded, Dbl. R.T. (Spot, Partial, Eff. (%) No. of
Sngl. Lap. Butt) of Full) Courses

8. Heads: (a) Material WRAPPERS: SA-516 70N (b) Material ENDS: SA-516 70N
(Spec. No., Grade) (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
a	WRAPPERS	1 5/8"	.125	-	-	-	-	-	**	FLAT
b	ENDS	1 1/8"	.125	-	-	-	-	-	***	FLAT

If removable, bolts used (describe other fastenings)

9. MAWP 1360 psi. N/A at max. temp. 200 °F N/A
(Internal) (External) (Internal) (External)

Min. design metal temp. -20 °F at 1360 psi. Hydro., pneu.-Or-comb. test pressure 2065 psi.

10. Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Material	Nom. Thk.	Reinforcement Material	How Attached	Location (Header)
INLET/OUTLET	4	10"	PIPE	SA-106 GRB	S/180	NONE	UW-16(a)	HEADER
INSTRUMENT	2	1"	CPLG	SA-105	6000#	NONE	UW-16(a)	HEADER
PLUGS	452	1 3/8"-12	UNF	SA-105	-	-	-	HEADER

11. Supports: Skirts NO LUGS N/A LEGS N/A OTHER STRUCTURE Attached: BOLTED
(Yes or no) (No.) (No.) (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:

(Name of part, item number, Mfg's name, and identifying stamp)

*2 HEADERS, ONE AT EACH END. **WRAPPERS FLAT DIA. 8 1/4" X 11'-11 7/8". ***ENDS FLAT DIA. 8 1/4" X 8 1/4"

226 TUBES SA-214 1 1/4" O.D. .083 MW 40'-0" LG. RADIOGRAPH PER CUSTOMERS SPECIFICATIONS. CHARPY IMPACT PLATE TO -20°F PER UG-84.1. ALL REMAINING MATERIAL & WELDS IMPACTS EXEMPT PER UG-20(f). PRESSURE RELIEF DEVICE BY OTHERS. CONSTRUCTED IN ACCORDANCE WITH APPENDIX 28.

CERTIFICATE OF SHOP / FIELD COMPLIANCE

We certify 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 BOILER AND PRESSURE VESSEL CODE, Section V111, Division 1. "U" Certificate of Authorization No. 34,950
expires 02/07/2011

Date: 6.15.09 Co. name: AXH air-coolers, LLC. Signed [Signature]
(Manufacturer) (Representative)

CERTIFICATE OF SHOP / FIELD INSPECTION

Vessel constructed by AXH air-coolers, LLC. at 401 E. LOWRY ROAD - CLAREMORE, OKLAHOMA 74017
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and / or the State or Province of OKLAHOMA and employed by SENECA INSURANCE COMPANY OF TEXAS

have inspected the component described in this Manufacturer's Data Report on 6-17-09 and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date: 6-18-09 Signed: [Signature] Commissions NB12461A OK483
(Authorized Inspector) (Nat'l Board (incl. endorsements), State, Prov. and No.)