LO1996

UNIT L-88204 L-6278 MODEL CB 500-60# H.W.
S O CU8902264 PART NO 524-1237

FORM H-2 MANUFACTURERS' DATA REPORT FOR ALL TYPES OF BOILERS EXCEPT WATERTUBE AND THOSE MADE OF CAST IRON

C25-2028A 11/88 as required by the provisions of the ASME Code rules

1. Manufactured and certified by Cleaver Brooks, 18th & Lahman Sts., Lebanon, PA 17042 (name and address of manufacturer)

2. Manufactured for Cincinnati Gas & Electric - Woodsdale, Ohio (name and address of purchaser)

3. Location of installation Cincinnati Gas & Electric - Woodsdale, Ohio (name and address)

4. Unit identification: Internally Fired (complete boiler, superheater, waterwall, economizer, etc.) | LC1996 (mfr's serial no.) | N/A (CRN) | 524-1233 (drawing no.) | 01586 (Nat'l. Bd. no.) | 1991 (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 Code, Section IV, 19 89 (year) A-89 (addenda (date)) N/A (Code Case no.)

6. Shells or drums: 1 (no.) | SA 36 (mat'l spec., gr.) | .437" (thickness (in.)) | 96" (dia. (I.D.)) | 168" (length (overall)) | (dia. (I.D.)) | (length (overall))

7. Joints: Welded (long. (seamless, welded)) | 95% (eff. (as compared to seamless)) | Welded (girth (seamless, welded)) | 2 (no. of shell courses)

8. Tubesheet: SA 516-70 (mat'l spec., grade) | .625" (thickness) | Tube holes: 273 2.525" (no. & dia.)

9. Tubes: No. SA 178-A (mat'l spec., grade) | Straight (straight or bent) | Dia. 2-½" | Length 168-½" (if various, give max. & min.) | Gauge .105" (or thickness)

10. Heads: None (mat'l. specification no.) | (thickness) | (flat, dished, ellipsoidal) | (radius of dish)

11. Furnace: SA 285-C (mat'l. spec., gr.) | .437" (thickness) | 1 (no.) | 45" O.D. (size (O.D. or W x H)) | 168-¼" Corrugated (length (each section)) (total) (type (plain, corrugated, etc.)) | Seams: Welded (type (seamless, welded))

12. Staybolts: None (no.) (size (dia.)) (mat'l. spec., gr.) (size) (telltale) (net area) (pitch (hor. and vert.)) (MAWP (psi))

13. Stays or braces:

Location	Mat'l Spec.	Type	No. & Size	Pitch	Total Net Area	Fig. HG 343 L/T	Dist. Tubes to Shell	Area to be Stayed	MAWP psi
(a) F.H. above tubes	SA675-60	Diag	16@1-¼"	8	15.7088	1.09	24-½	996	160
(b) R.H. above tubes	SA675-60	Diag	16@1-¼"	8	15.7088	1.09	24-½	996	160
(c) F.H. below tubes	N/A								
(d) R.H. below tubes	N/A								
(e) Through stays	N/A								

14. Other parts 1. None 2. 3.
(brief description -- i.e. dome, boiler piping, etc.)

1.
2.
3.
(mat'l spec., grade, size, material thickness, MAWP)

15. Nozzles, inspection and safety valve openings

Purpose (inlet, outlet, drain, etc.)	No.	Dia. or Size	Type	How Attached	Mat'l	Nom. Thickness	Reinforcement Mat'l	Location
Handhole up to 3" x 4"	6	3-¼"x4-½"			NA		NA	Shell
Manhole	1	11"x15"		Welded	SA106			Shell
Steam	2	10" 150#	Flg.	Welded	SA515-70	1-11/16		Shell
Safety Valve	1	3/4"	NPT	Welded	SA105	3000#		Shell
Safety Valve	4	2"	NPT	Welded	SA105	3000#		Shell
Blow-off	2	2"	NPT	Welded	SA105	3000#		Bottom CL
Feed	2	2-½"	NPT	Welded	SA105	3000#		R&L Side

16. Boiler supports: 4 (no.) Legs (type (saddles, legs, lugs)) Welded (attachment (bolted or welded))

17. Design pressure: 60 (psi) Based on HG-340 (Code par. and/or formula) Heating surface 2500 (sq. ft. or kW (total)) Shop hydro. test 90 (psi (complete boiler))

FORM H-2 (back)

18. **Remarks:** Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of this report: None
(name of part, item number, mfr's. name and identifying stamp)

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this data report are correct and that all details of design, material, construction, and workmanship of this boiler conform to the ASME BOILER AND PRESSURE VESSEL CODE, SECTION IV.

"H" Certificate of Authorization no. 10904 expires January 15, 19 92

Date 3/26/91 Name Cleaver Brooks (manufacturer that constructed and certified boiler) Signed [signature] (by representative)

CERTIFICATE OF SHOP INSPECTION

Boiler constructed by Cleaver Brooks at Lebanon, PA

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the state or province of Pennsylvania and employed by The Hartford Steam Boiler I & I Co. of Hartford, CT have inspected parts of this boiler referred to as data items 1-11, 13, 15-18 and have examined Manufacturers' Partial Data Reports for items None

and state that to the best of my knowledge and belief, the manufacturer has constructed this boiler in accordance with the applicable sections of the ASME BOILER AND PRESSURE VESSEL CODE.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the boiler described in this Manufacturers' 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 Mar. 27, 1991 Signed [signature] (Authorized Inspector) Commissions NB 8884 PA 2309, Ohio Comm. (Nat'l. Bd. (incl. endorsements) state, prov. and no.)

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the field assembly construction of all parts of this boiler conforms with the requirements of SECTION IV of the ASME BOILER AND PRESSURE VESSEL CODE.

"H" Certificate of Authorization no. _____ expires _____, 19 _____.

Date _____ Name _____ (assembler that certified and constructed field assembly) Signed _____ (by representative)

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the state or province of _____ and employed by _____ of _____ have compared statements in this Manufacturers' Data Report with the described boiler and state that the parts referred to as data items _____, not included in the certificate of shop inspection, have been inspected by me and that to the best of my knowledge and belief the manufacturer and/or the assembler has constructed and assembled this boiler in accordance with the applicable sections of the ASME BOILER AND PRESSURE VESSEL CODE. The described boiler was inspected and subjected to a hydrostatic test of _____ psi.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the boiler described in this Manufacturers' 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 _____ Signed _____ (Authorized Inspector) Commissions _____ (Nat'l. Bd. (incl. endorsements) state, prov. and no.)